PE13-003

FORD

APPENDIS I

SUBJECT VEHICLES

Engineering Review

Non Conf Engineering Review

From: Harmon, Derek (D.M.)
Sent: Wednesday, September 26, 2012 2:19 PM
To: Langley, Scott (C.S.); Hwang, Sheng-Jiaw (S.J.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Bandoske, Pete (P.F.); Wagner, Glen (G.C.); Ricks, Kevin (K.J.); Meier, Kenneth (K.W.); Garant, Dan (DCG.); Watson, Joseph (J.W.)
Subject: 2010-2012 Fusion/Escape no DTC loss of RPM
Attachments: dharmon3@ford.com has forwarded you an FMCDealer Discussion Board topic

Follow Up Flag: Follow up
Flag Status: Flagged

The intermittent no DTC loss or RPM problem is getting so much attention on the 10-12 Escape/Fusion I've now put this on the QSF emerging deck. We've gotten too many phone calls from dealership technicians needing help and fleet confidence concerns about this, it is time to monitor this closer and help our technician and customers. The attachment is a chat board between our dealership technicians.

Derek M. Harmon
Ford Customer Service Division
Powertrain Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: DCPMSGBD, FMCDealer (.)
Sent: Wednesday, September 26, 2012 2:00 PM
To: Harmon, Derek (D.M.)
Subject: dharmon3@ford.com has forwarded you an FMCDealer Discussion Board topic

Author

2010 Fusion wrench light on w/ no DTC's in PCM/TCM

Michael Kirkpatrick
University Ford Inc
Durham, NC
(919) 682-9171

Posted: September 25, 2012 9:43:34 AM

Suspect ETB but how to prove it? I know there's more out there because someone else posted it, yet no TSB's or SSM's!!!....a tech drove this vehicle approx 200 miles before any symptoms showed up...finally while cruising @ 73 mph with the cruise set, it went to idle & no accel. pedal response until the engine was shut down and restarted.

John Iorio
Battlefield Ford
Charlottesville, VA
(434) 977-7960

Posted: September 25, 2012 9:47:27 AM

Throttle body actual and desired not matching most likely

heather berrier
Kenny Ross Ford South, Inc.
Pittsburgh, PA
(412) 881-0001

Posted: September 25, 2012 1:06:55 PM

Just put ETB on it will fix it. I have several doing this exact same thing and TB fixed em all.

Phillip Werner
Gem City Ford Lincoln
Quincy, IL
(217) 222-8700

Posted: September 25, 2012 2:07:01 PM

yep ETB same concern my daughter had and it took care of it. Restarting hers always fixed it but is a pain if your in st. louis high traffic and have to find a spot to pull over to cycle key.

Steven Clouser
Maguire's Ford, Inc.
Duncannon, PA
(717) 834-3111

Posted: September 25, 2012 2:20:21 PM

What about checking the electronic throttle body freeze frame datta should be all 0s

Michael Kirkpatrick
University Ford Inc
Durham, NC
(919) 682-9171

Posted: September 26, 2012 11:04:31 AM

Replaced the ETB and after 60 miles OK. Steven, I can't find any freeze frame data as it didn't set any codes. I remember there was some digital numeric code to look for on the RFR, but I can't find anything like that on IDS.

Michael Kirkpatrick
University Ford Inc
Durham, NC
(919) 682-9171

Posted: September 26, 2012 11:07:32 AM

Anyone remember SSM/TSB related to the RFR numeric gibberish code?

PAUL CAVENDER
Porter Ford
Newark, DE
(302) 738-0800

Posted: September 26, 2012 11:19:11 AM

23761 under special functions

DEKE HOFFMAN
Tri Motor Sales, Inc.
Oak Harbor, OH
(419) 898-2931

Posted: September 26, 2012 12:11:32 PM

seen it, etb for sure

From: Morfin, Miguel (M.A.)
Sent: Wednesday, June 03, 2009 7:20 PM
To: Learman, Michael (M.S.); Langley, Scott (C.S.)
Cc: Lardizabal, Sergio (S.); Marinelarena, Juan (J.)
Subject: clarification on Alert A12247279 ETB.

On the Alert for the ETB at Delphi Juarez,

Chep need a clarification on the description below:

WERS ID: N.ENGENGR.SLANGLE1	* PVD2 IS A SUPERIOR PROCESS TO THE PVD1 PROCESS. FOR THAT REASON, IT WAS PLANNED TO SWITCH COMPLETELY OVER TO ONLY PVD2 PRODUCT. DELPHI MADE THAT SWITCH ON 5/27/09 DESPITE STILL HAVING 56,000 PIECES OF PVD1 IN THE PIPELINE. IN PARALLEL, THEY HAVE BEEN WORKING WITH MELEXIS TO DEVELOP A SUCCESSFUL SCREENING PROCESS FOR PVD1. THIS RESULTANT SCREEN ING PROCESS APPLIED TO 20K PIECES WILL ENSURE NO INTERRUPTION IN SUPPLY, ALLOW THE PIPELINE TO BE FILLED EXCLUSIVELY WITH PVD2 PARTS AND IS EXPECTED TO RESULT IN THE RISK TO THE FIELD OF 0.6 ADDITIONAL DEFECTIVE ETBS. THE POWERPOINT PRESENTATION EXPLAINING MORE OF THE DETAILS AND THE RISK CALCULATION WILL BE ATTACHED TO THIS ALERT. THE 20K PIECES OF PVD1 USAGE IS EXPECTED TO BE A MAXIMUM. NOTE THAT WE EXPECT TO CONTINUE TO APPLY THIS SCREENING TO PVD2 LOTS FOR INFORMATION & COMPARISON. BUT THAT INFORMATION

On the presentation (ppt) says 0.6 ETB (reducing the risk to 30ppm)

Could you please clarified (in the alert) in order to obtain Chep permission(copied in the mail) (cause it is not clear 0.6? ppms?, r/100? Or? For them)

Gracias

Zero Defect Mindset - "Don't Take It, Don't Make It & Don't Pass It On!!!"

Miguel Angel Morfin Herrera
STA ***Site*** Engineer (FOM)
mmorfin@ford.com
NEW (52) (55) 1103 3552

From: Godoy, Arquimedes <arquimedes.godoy@delphi.com>
Sent: Thursday, August 20, 2009 4:52 PM
To: Bos, Ed (E.A.); Chabon, Michael (W.); Parkinson, Tim (T.M.); Hall, Brent (A.)
Cc: Mikutowicz, John
Subject: Delphi internal review regarding Ford ETB via hole defect
Attachments: TP_PCB_Panel_Location_&_Via_Failures_Diagram_20Au09.xls; Ford 9L8E ETB TPS Sensor VIAS Hole Contamination Concentration Diagram 20Aug09.xls

Ford Team,

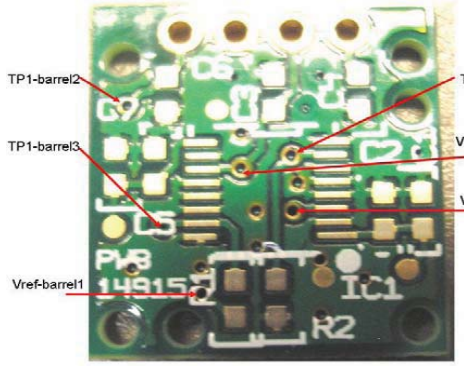
Attached is the latest update on concentration diagrams. Please keep in mind that lot 923 has been already processed and send and lot 926 is the material currently at Sec and that has been used on most of the experiments.

Arquimedes

<<TP_PCB_Panel_Location_&_Via_Failures_Diagram_20Au09.xls>> <<Ford 9L8E ETB TPS Sensor VIAS Hole Contamination Concentration Diagram 20Aug09.xls>>

Concentration diagrams

PCB Via Failures				
TP1-Barrel2	**TP1-Barrel3**	**TP2-Barrel2**	**Vref-Barrel1**	**Vref-Barrel2**
Sample A	Sample E	Sample B	Sample G	Sample 1
Sample E	Sample 2	Sample C	Sample 19	Sample G
Sample H	Sample 10	Sample D	CR 92083002588	Sample F
Sample 10		Sample 4		Sample 1
Sample 22		Sample 20		Sample 9
		CR 92173002440		Sample 14
				Sample 21
				CR 92083002588
				Sample 12
Total: 5	**Total: 3**	**Total: 6**	**Total: 3**	**Total: 9**



Ford I4 TPS P/N 28110494

of Failed Daughter Boards By Location on Mother Board

	A	B	C	D	E	F	G	H	I	J
1			2							
2										
3						1			2	
4	1		1							
5					1				1	1
6					1	1			1	1
7						1			1	1
8				1						
9	1	2	1	1		1			1	
10				1					1	
11		1								1
12										
13										
14										
15										

Please put in each cell the total number of failed daughter boards for that location

21 from group of 22 - rejects at SEC (early containment)
5 from 1000 parts in TS rejects
2 last customer returns

Conc Diagram- All Failures

Cispa Data	Avalon Date	PCB Lot Number	Igarashi TPS date codes.	MB Panel Number	VIAS Hole Location	Failure
9-June'09	11-June'09	923	162			
	12-June'09	923	163,164	TBD	TBD	1
	13-June'09	923	164			
	15-June'09	923	166			
	16-June'09	923	167			
	17-June'09	923	168,171			
	18-June'09	923	171			
	19-June'09	923	171			
	20-June'09	923	171			
	22-June'09	923	173			
	23-June '09	923	179			
	24-June '09	923	179,180,181,182	TBD	TBD	1
	26-June'09	923	180,181,182			
	27-June'09	923	180,181,182			
	03-July'09	923	184			
	04-july'09	923	185,187			
	05-july'09	923	187			
	06-july'09	923	187			
	07-July'09	923	188			
	08-July'09	923	189			
	09-July'09	923	190			
	10-July'09	923	191			
	11-July'09	923	192,193	TBD	TBD	2
	13-July'09	926	194			
	14-July'09	926	195			
	15-July'09	926	195,196			
	16-July'09	926	196,197			
	17-July'09	926	197,198			
	18-July'09	926	199			
	20-July'09	926	200,201			
	21-July'09	926	201,202			
	22-July'09	926	203			
	23-July'09	926	204			
	24-July'09	926	205,206			
	25-July'09	926	206	TBD	TBD	1
	27-July'09	926	207,208	TBD	TBD	1
	28-July'09	926	209			
	29-July'09	926	210,211	TBD	TBD	6
	30-July'09	926	211,212	TBD	TBD	2
	31-July'09	926	212,213,214			
	01-Aug'09	923	213,214,215,216,217	TBD	TBD	2
	02-Aug'09	926	215,216,217	TBD	TBD	3
	03-Aug'09	926	216,217	TBD	TBD	8
	04-Aug'09	923	217			
	05-Aug'09	926	217			
	06-Aug'09	923	217,218	TBD	TBD	5
	07-AUg'09	926	218,219	TBD	TBD	4
	08-Aug'09	926	219,220			
	11-Aug'09	926	223			
	12-Aug'09	926	224,225			
	13-Aug'09	926	225			
11-Aug'09	14-Aug'09	926	226			

Have First Date and Last Date Only

Total= 36

Note one less than Nicte Data because info missing on SN 13

Conc Diagram from SEC screen

Avalon Date	PCB Lot Number	Igarashi TPS date codes.	Failure
11-June'09	923	162	
12-June'09	923	163,164	
13-June'09	923	164	
15-June'09	923	166	
16-June'09	923	167	
17-June'09	923	168,171	
18-June'09	923	171	
19-June'09	923	171	
20-June'09	923	171	
22-June'09	923	173	
23-June '09	923	179	
24-June '09	923	179,180,181,182	
26-June'09	923	180,181,182	
27-June'09	923	180,181,182	
03-July'09	923	184	
04-july'09	923	185,187	
05-july'09	923	187	
06-july'09	923	187	
07-July'09	923	188	
08-July'09	923	189	
09-July'09	923	190	
10-July'09	923	191	
11-July'09	923	192,193	
13-July'09	926	194	
14-July'09	926	195	
15-July'09	926	195,196	
16-July'09	926	196,197	
17-July'09	926	197,198	
18-July'09	926	199	
20-July'09	926	200,201	
21-July'09	926	201,202	
22-July'09	926	203	
23-July'09	926	204	
24-July'09	926	205,206	
25-July'09	926	206	
27-July'09	926	207,208	1
28-July'09	926	209	
29-July'09	926	210,211	4
30-July'09	926	211,212	2
31-July'09	926	212,213,214	
01-Aug'09	923	213,214,215,216,217	2
02-Aug'09	926	215,216,217	3
03-Aug'09	926	216,217	6
04-Aug'09	923	217	
05-Aug'09	926	217	
06-Aug'09	923	217,218	
07-AUg'09	926	218,219	3
08-Aug'09	926	219,220	
11-Aug'09	926	223	
12-Aug'09	926	224,225	
13-Aug'09	926	225	
14-Aug'09	926	226	

Total= 21 Note one less

Conc Diagram from SEC screen

than Nicte Data because info missing on SN 13

Conc Diag from 1000pcs therm sh

Avalon Date	PCB Lot Number	Igarashi TPS date codes.	Failure
11-June'09	923	162	
12-June'09	923	163,164	
13-June'09	923	164	
15-June'09	923	166	
16-June'09	923	167	
17-June'09	923	168,171	
18-June'09	923	171	
19-June'09	923	171	
20-June'09	923	171	
22-June'09	923	173	
23-June '09	923	179	
24-June '09	923	179,180,181,182	
26-June'09	923	180,181,182	
27-June'09	923	180,181,182	
03-July'09	923	184	
04-july'09	923	185,187	
05-july'09	923	187	
06-july'09	923	187	
07-July'09	923	188	
08-July'09	923	189	
09-July'09	923	190	
10-July'09	923	191	
11-July'09	923	192,193	
13-July'09	926	194	
14-July'09	926	195	
15-July'09	926	195,196	
16-July'09	926	196,197	
17-July'09	926	197,198	
18-July'09	926	199	
20-July'09	926	200,201	
21-July'09	926	201,202	
22-July'09	926	203	
23-July'09	926	204	
24-July'09	926	205,206	
25-July'09	926	206	
27-July'09	926	207,208	
28-July'09	926	209	
29-July'09	926	210,211	2
30-July'09	926	211,212	
31-July'09	926	212,213,214	
01-Aug'09	923	213,214,215,216,217	
02-Aug'09	926	215,216,217	
03-Aug'09	926	216,217	2
04-Aug'09	923	217	
05-Aug'09	926	217	
06-Aug'09	923	217,218	5
07-AUg'09	926	218,219	1
08-Aug'09	926	219,220	
11-Aug'09	926	223	
12-Aug'09	926	224,225	
13-Aug'09	926	225	
14-Aug'09	926	226	

Total= 10

Avalon Date	PCB Lot Number	Igarashi TPS date codes.	Failure
11-June'09	923	162	
12-June'09	923	163,164	1
13-June'09	923	164	
15-June'09	923	166	
16-June'09	923	167	
17-June'09	923	168,171	
18-June'09	923	171	
19-June'09	923	171	
20-June'09	923	171	
22-June'09	923	173	
23-June '09	923	179	
24-June '09	923	179,180,181,182	1
26-June'09	923	180,181,182	
27-June'09	923	180,181,182	
03-July'09	923	184	
04-july'09	923	185,187	
05-july'09	923	187	
06-july'09	923	187	
07-July'09	923	188	
08-July'09	923	189	
09-July'09	923	190	
10-July'09	923	191	
11-July'09	923	192,193	2
13-July'09	926	194	
14-July'09	926	195	
15-July'09	926	195,196	
16-July'09	926	196,197	
17-July'09	926	197,198	
18-July'09	926	199	
20-July'09	926	200,201	
21-July'09	926	201,202	
22-July'09	926	203	
23-July'09	926	204	
24-July'09	926	205,206	
25-July'09	926	206	1
27-July'09	926	207,208	
28-July'09	926	209	
29-July'09	926	210,211	
30-July'09	926	211,212	
31-July'09	926	212,213,214	
01-Aug'09	923	213,214,215,216,217	
02-Aug'09	926	215,216,217	
03-Aug'09	926	216,217	
04-Aug'09	923	217	
05-Aug'09	926	217	
06-Aug'09	923	217,218	
07-AUg'09	926	218,219	
08-Aug'09	926	219,220	
11-Aug'09	926	223	
12-Aug'09	926	224,225	
13-Aug'09	926	225	
14-Aug'09	926	226	

Total= 5

From: Pulay, Kirk (K.)
Sent: Wednesday, October 10, 2012 10:52 AM
To: Barwick, Matt (M.E.); Zimlich, Glenn (G.A.); Sims, Ivan (I.D.); King, Brian (B.M.); Hall, Brent (A.); Chabon, Michael (W.); Hwang, Sheng-Jiaw (S.J.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Tran, Dan (D.H.); Shimon, Richard (R.L.); Fey, Stephen (S.H.); DeAngelis, Joseph (J.M.)
Subject: ETB Clean Cycle Vehicle DV plan

Based on Oct 09, 2012 meeting the following DV plan was proposed.

Vehicle: (Glenn Zimlich)

1) Perform cold starts at DTF at the following temps:
-40F, -20F, 0F, 20F, 30F, 50F, 68F
Vehicles:
20xx Fusion 2.5L
20xx Escape 2.5L
2009 Escape 3.0L
2010 Fusion 3.0L
20xx 2.5L Fusion with E22 FSAO cal
20xx 3.0L Fusion with E22 FSAO cal

Vehicle Availability:

2010 3.0L Fusion	Bld-1	Instrumented and ready to test
2010 3.0L Fusion	?	1 unit available
20xx 2.5L Fusion	?	2 units available
20xx 2.5L Escape	?	Not mentioned during meeting – is unit available???

2) Perform running restart test
Vehicles:
Manual trans. 2.5L Fusion
Auto trans. any vehicle / engine

Bench: (Kirk Pulay)

1) Ratch Accuracy and Repeatability test (EH-0040) at -40C, 25C, and 125C

Kirk Pulay
Component C - Hardware/Controls Interface
Building 1, 2nd Floor, Cubical 12B098
Phone: 313-805-9370

From: Harmon, Derek (D.M.)
Sent: Friday, September 03, 2010 2:25 PM
To: Soper, Todd (R.)
Cc: Osepchook, William (W.R.)
Subject: ETB no DTC loss of RPM

Todd, sorry for the delay. These are all of the GCQIS reports of a stall w/ no DTC's built after 3/1/10. Not sure who else was interested in the file, feel free to send to others.

Thanks,

Derek M. Harmon
FCSD Concern Engineer
Ford Motor Company
email: dharmon3@ford.com
phone: 313-317-4276

ODOMETER	REPORT DATE	VEHICLE LINE DESC	ENGINE DESC

Redacted for relevance

Redacted for relevance			

Redacted for relevance			

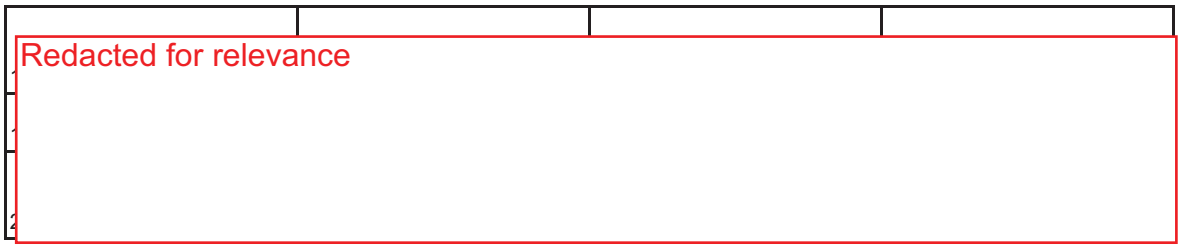
Redacted for relevance			

Redacted for relevance

3928	08/10/2010	FUSION	3.5L 4V

Redacted for relevance

Redacted for relevance			


Redacted for relevance

MODEL YEAR	REPORT NUMBER	BUILD DATE	VIN
2010	AHYCW004	05/25/2010	2FMDK4KC0AB[redacted]
2010	AHXBU007	05/13/2010	2FMDK3JC7AB[redacted]
2010	AHXBG001	10/20/2009	2FMDK3GCXA[redacted]
2010	AHXAP016	05/26/2010	2FMDK3GC9AB[redacted]
2010	AHWBX009	06/01/2010	2FMDK4KC3AB[redacted]
2010	AHTD5008	06/09/2009	2FMDK4JC3AB[redacted]
2010	AHTDA010	03/08/2010	2FMDK3GC2AB[redacted]
2010	AHTBJ004	05/19/2010	2FMDK3KC0AB[redacted]
2010	AHTBA012	11/09/2009	2FMDK3GC0AB[redacted]
2010	AHTAK008	07/01/2010	2FMDK4JC5AB[redacted]
2010	AHSAZ004	06/09/2010	2FMDK3JC5AB[redacted]
2010	AHRDB007	05/31/2010	2FMDK3KC8AB[redacted]
2010	AHQC7004	05/10/2010	2FMDK3GC1AB[redacted]
2010	AHQC5004	06/09/2010	2FMDK3JC9AB[redacted]
2010	AHQA8005	06/14/2010	2FMDK3JC0AB[redacted]
2010	AHQA3010	12/09/2009	2FMDK3GC5AB[redacted]
2010	AHPB3005	05/26/2010	2FMDK3GC6AB[redacted]
2010	AHMDP001	06/21/2010	2FMDK3JC3AB[redacted]
2010	AHMCQ014	05/10/2010	2FMDK3KC9AB[redacted]
2010	AHMCD005	10/15/2009	2FMDK4KC9AB[redacted]

2010	AHMAX001	05/07/2010	2FMDK4KC9AB[redacted]
2010	AHMAQ016	06/25/2010	2FMDK3KC8AB[redacted]
2010	AHLED013	05/20/2010	2FMDK3KC5AB[redacted]
2010	AHLAM005	05/27/2010	2FMDK3KC6AB[redacted]
2010	AHKE2008	03/08/2010	2FMDK4KC0AB[redacted]
2010	AHKER003	05/07/2010	2FMDK3GC9AB[redacted]
2010	AHKBK003	03/15/2010	2FMDK4AC6AB[redacted]
2010	AHIAW009	03/10/2010	2FMDK4KC8AB[redacted]
2010	AHFBF009	03/11/2010	2FMDK4KC3AB[redacted]
2010	AHDB8003	05/28/2010	2FMDK4JC6AB[redacted]
2010	AHDB6019	03/08/2010	2FMDK3GC9AB[redacted]
2010	AHDBJ005	05/17/2010	2FMDK3JC2AB[redacted]
2010	AHDAL011	05/19/2010	2FMDK4JC7AB[redacted]
2010	AHCBY030	05/11/2010	2FMDK4KC5AB[redacted]
2010	AG4AL011	03/12/2010	2FMDK3KC6AB[redacted]
2010	AG2CJ012	03/10/2010	2FMDK3GCXAB[redacted]
2010	AG2BQ011	03/12/2010	2FMDK3JC0AB[redacted]
2010	AG1D3004	05/10/2010	2FMDK4KC6AB[redacted]
2010	AGZAM002	05/10/2010	2FMDK3GC6AB[redacted]
2010	AGWD6002	05/25/2010	2FMDK4KC6AB[redacted]
2010	AGVDG006	03/12/2010	2FMDK4KC4AB[redacted]

2010	AGVAN005	05/26/2010	2FMDK4KC0AB[redacted]
2010	AGUBB016	03/10/2010	2FMDK3GCXAB[redacted]
2010	AGTAT007	03/10/2010	2FMDK4KC1AB[redacted]
2010	AGSCJ007	03/10/2010	2FMDK4KC4AB[redacted]
2010	AGSBO006	06/01/2010	2FMDK3JC2AB[redacted]
2010	AGPDC009	05/07/2010	2FMDK3KC0AB[redacted]
2010	AGPBV017	03/17/2010	2FMDK3GC4AB[redacted]
2010	AGPBM002	03/12/2010	2FMDK4KC4AB[redacted]
2010	AGMCK023	03/11/2010	2FMDK3JC5AB[redacted]
2010	AGLED002	05/12/2010	2FMDK4KC5AB[redacted]
2010	AGLCD007	03/16/2010	2FMDK3GCXAB[redacted]
2010	AGLB8029	05/19/2010	2FMDK3GC7AB[redacted]
2010	AGLAL009	03/10/2010	2FMDK4KC0AB[redacted]
2010	AGJAB014	03/11/2010	2FMDK3GC4AB[redacted]
2010	AGHEB004	03/17/2010	2FMDK3GC4AB[redacted]
2010	AGHAU004	03/11/2010	2FMDK4JC7AB[redacted]
2010	AGFDJ003	03/12/2010	2FMDK4JCXAB[redacted]
2010	AGFBR007	03/10/2010	2FMDK3GC7AB[redacted]
2010	AF4DU003	05/11/2010	2FMDK3KC7AB[redacted]
2010	AF4DI006	03/11/2010	2FMDK3GC8AB[redacted]
2010	AF4A6008	03/11/2010	2FMDK4KC6AB[redacted]

2010	AF3C7006	03/11/2010	2FMDK3JC4AB[redacted]
2010	AF3AS013	03/09/2010	2FMDK3GC6AB[redacted]
2010	AF3AS004	05/06/2010	2FMDK4JC0AB[redacted]
2010	AFXBR016	05/20/2010	2FMDK4KC5AB[redacted]
2010	AFVAH003	03/10/2010	2FMDK3GC0AB[redacted]
2010	AFUAN004	03/11/2010	2FMDK3GC5AB[redacted]
2010	AFSAB015	03/10/2010	2FMDK3GC4AB[redacted]
2010	AFRCT007	03/09/2010	2FMDK3KC5AB[redacted]
2010	AFQAF003	03/16/2010	2FMDK3KC9AB[redacted]
2010	AFQAF002	03/17/2010	2FMDK3JC0AB[redacted]
2010	AFOCZ008	09/16/2009	2FMDK3JC2AB[redacted]
2010	AFNCK009	03/10/2010	2FMDK4KC6AB[redacted]
2010	AFIDK004	03/09/2010	2FMDK3KC0AB[redacted]
2010	AFIA7001	03/12/2010	2FMDK3GC7AB[redacted]
2010	AFHBD002	03/11/2010	2FMDK4JC2AB[redacted]
2010	AFGAQ010	03/16/2010	2FMDK3AC1AB[redacted]
2010	AFBBS007	03/10/2010	2FMDK3JC0AB[redacted]
2010	AFBBD020	03/17/2010	2FMDK4KC6AB[redacted]
2010	AFAAW008	03/11/2010	2FMDK4JC2AB[redacted]
2010	AE2A4007	03/12/2010	2FMDK4KCXAB[redacted]
2010	AEZAL002	03/09/2010	2FMDK3GCXAB[redacted]

2010	AEUCT003	03/09/2010	2FMDK4KC6AB[redacted]
2010	AEFBN002	03/09/2010	2FMDK3GC9AB[redacted]
2010	AECBD008	03/08/2010	2FMDK3GC2AB[redacted]
2010	ADTB1007	03/09/2010	2FMDK3GCXAB[redacted]
2011	AHZAF006	06/01/2010	2FMGK5DC5BB[redacted]
2011	AHQAJ039	06/28/2010	2FMHK6CC8BB[redacted]
2010	AHTAH014	02/01/2010	2FMGK5CC9AB[redacted]
2010	AHTAE007	05/07/2010	2FMGK5CC4AB[redacted]
2010	AGODK016	03/11/2010	2FMHK6CC3AB[redacted]
2010	AFRA4003	03/08/2010	2FMGK5BC4AB[redacted]
2010	AFIBW021	03/11/2010	2FMGK5CC3AB[redacted]
2010	AHJCC003	03/12/2010	3FAHP0KC6AR[redacted]
2011	AGTAT011	05/26/2010	2LMHJ5FR0BB[redacted]
2010	AG3BL001	12/04/2009	2LMHJ5FR0AB[redacted]
2010	AHECT017	03/10/2010	2LMDJ6JC3AB[redacted]
2010	AHBD1003	03/11/2010	2LMDJ8JC1AB[redacted]
2010	AG3CR013	05/07/2010	2LMDJ6JC9AB[redacted]
2010	AGLEI028	03/15/2010	2LMDJ8JC2AB[redacted]
2010	AGHCX013	03/10/2010	2LMDJ6JC3AB[redacted]
2010	AFWE4007	03/19/2010	2LMDJ6JC7AB[redacted]
2011	AHTAX024	07/19/2010	1FAHP2EW2BG[redacted]
2011	AHLB7005	05/18/2010	1FAHP2FW4BG[redacted]
2011	AHBB4002	06/07/2010	1FAHP2FW9BG[redacted]

2011	AG3A5011	05/10/2010	1FAHP2EW5BG[redacted]
2011	AGNAU002	06/08/2010	1FAHP2HWXBG[redacted]
2011	AGLEI025	05/26/2010	1FAHP2EW0BG[redacted]
2011	AFKBK009	05/10/2010	1FAHP2EW5BG[redacted]
2010	AHXDJ018	12/01/2009	1FAHP2DW9AG[redacted]
2010	AHQDR039	12/09/2009	1FAHP2HW3AG[redacted]
2010	AHQC4019	10/06/2009	1FAHP2FW9AG[redacted]
2010	AHLB7009	04/23/2010	1FAHP2EW0AG[redacted]
2010	AHIBD031	12/03/2009	1FAHP2DW0AG[redacted]
2010	AHDB6003	09/10/2009	1FAHP2DW2AG[redacted]
2010	AHCCM005	02/09/2010	1FAHP2EW5AG[redacted]
2010	AGZAP020	03/10/2010	1FAHP2EWXAG[redacted]
2010	AGUCT010	10/02/2009	1FAHP2FW8AG[redacted]
2010	AF4A2001	11/02/2009	1FAHP2EW0AG[redacted]
2010	AFYCX001	03/18/2010	1FAHP2EW2AG[redacted]
2010	AFXC9008	03/09/2010	1FAHP2FW3AG[redacted]
2010	AFWDU017	03/11/2010	1FAHP2FW1AG[redacted]
2010	AFOCZ009	03/10/2010	1FAHP2EW5AG[redacted]
2010	AFOCZ004	03/10/2010	1FAHP2EWXAG[redacted]
2010	AFBAT014	10/20/2009	1FAHP2DW1AG[redacted]
2010	AEVAH008	09/28/2009	1FAHP2DW5AG[redacted]
2010	AESBV014	03/12/2010	1FAHP2EW1AG[redacted]

2010	AEED2002	11/18/2009	1FAHP2HW2AG[redacted]
2010	ADVCW018	09/11/2009	1FAHP2DW8AG[redacted]
2010	AERBE006	05/07/2009	3LNHL2JCXAR[redacted]

SYMPTOM FULL DESC	ADDITIONAL SYMPTOM
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	WITH A/C ON
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	ENGINE STALLS AT IDLE A/C ON
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING INTERMITTENT STARTUP
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT CLOSED THROTTLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	IDLE DIPS AND STALLS
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALLING AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALLING AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALLING C1963
DRVABL ,STALL/QUITS ,ACCELERATION ,ALL ENGINE TEMP	STALLS AT TIP IN
DRVABL ,STALL/QUITS ,DECELERATION ,UNKNOWN	STALLS ON DECEL WITH A/C ON
DRVABL ,STALL/QUITS ,DECELERATION ,UNKNOWN	STALLS INTERMITTENTLY
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	IDLE FLUCTUATION
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	INT. STALL
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN

DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	RUNS ROUGH STALLS
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLING AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTANT STALL
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	INTERMITTENT HESITATION/STALL
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT CRUISE ,ALL ENGINE TEMP	P1111 INTERMITTENT STALL
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	INT STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS ON DECEL OR AT IDLE
DRVABL ,STALL/QUITS ,ACCELERATION ,UNKNOWN	STALLS ON ACCEL.
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS AT STOPS.
DRVABL ,STALL/QUITS ,AT IDLE ,HOT ENGINE	STALLING AT STOPS.
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE W/ A/C ON
DRVABL ,STALL/QUITS ,DECELERATION ,UNKNOWN	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT CRUISE ,ALL ENGINE TEMP	STALLED WHILE DRIVING
DRVABL ,STALL/QUITS ,AT CRUISE ,ALL ENGINE TEMP	STALL AT CRUISE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALLING
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALL

DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	ENGINE RPM DIPS THEN STALLS
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	WITH AC ON
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INT
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INT, CLOSED THROTTLE
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	NO CODES, STALLED 6 TIMES.
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALLING AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT CRUISE ,ALL ENGINE TEMP	STALL AND SQUEAK
DRVABL ,STALL/QUITS ,AT IDLE ,HOT ENGINE	ALLEGED STALLS AT STOPS
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALL CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING AT STOPS.
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	WITH A/C ON
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALL W/ A/C IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	INTERMITTANT
DRVABL ,STALL/QUITS ,AT CRUISE ,UNKNOWN	NO CODES, RESTARTS
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	WRENCH LIGHT STALL OUT

DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS ON DECEL OR IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INT STALL CONCERN.
DRVABL ,STALL/QUITS ,DECELERATION ,UNKNOWN	STALLING AT STOPS.
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALL ON DECEL.
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	AT STOPS
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INT STALL AT STOPS.
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INT STALL AND WRENCH LIGHT
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT STOPS
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	IDLE ROLLS SLIGHT, DIPS, STALL
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	WITH A/C ON
DRVABL ,STALL/QUITS ,ACCELERATION ,ALL ENGINE TEMP	
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT CRUISE ,UNKNOWN	STALLS
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS WITH A/C
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	WITH A/C ON
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALLING W/ AC ON
DRVABL ,STALL/QUITS ,AT IDLE ,HOT ENGINE	VERIFIED AFTER ONE HOUR IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	INT. STALL
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING AT STOPS A/C ON.

DRVABL ,STALL/QUITS ,AT CRUISE ,ALL ENGINE TEMP	THROTTLE BODY CONCERN
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALL COMING TO A STOP
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALLS
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALLS AT STOPS INT
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	ALLEGED
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	CRUISE KICKS OFF, STALLS
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS/QUITS WRENCH LIGHT
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALLS ON DECEL
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	ETC CODES
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	ROLLING IDLE, STALLS
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	P1000
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	RPM FLUCTUATION
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTANT STALL
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALLS MULTIPLE TIMES
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INT STALL
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	INT. STALL AT IDLE
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALL AT TIMES

DRVABL ,STALL/QUITS ,AT CRUISE ,HOT ENGINE	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS AT IDLE
DRVABL ,STALL/QUITS ,AT CRUISE ,HOT ENGINE	
DRVABL ,STALL/QUITS ,DECELERATION ,ALL ENGINE TEMP	STALLS AND SURGES AT STOPS
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALLS WHILE DRIVING
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLING CONCERN
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	3.5
DRVABL ,STALL/QUITS ,AT IDLE ,HOT ENGINE	
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALL/ROLLING IDL
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	AT IDLE WITH LOAD INPUT
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	STALLS AT IDLE
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	STALL AT STOP
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	INTERMITTENT STALL
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	STALLS AT STOPS WITH A/C ON
DRVABL ,STALL/QUITS ,ACCELERATION ,HOT ENGINE	
DRVABL ,STALL/QUITS ,ACCELERATION ,ALL ENGINE TEMP	
DRVABL ,STALL/QUITS ,DECELERATION ,UNKNOWN	INTERMITTENT
DRVABL ,STALL/QUITS ,UNKNOWN ,UNKNOWN	INT. STALL
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	STALLS AT STOPS

DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS
DRVABL ,STALL/QUITS ,AT IDLE ,UNKNOWN	STALLS
DRVABL ,STALL/QUITS ,AT IDLE ,ALL ENGINE TEMP	STALLS

From: Soper, Todd (R.)
Sent: Thursday, August 05, 2010 2:37 PM
To: Moizuk, Layne (L.E.); Galas, Dean (C.K.); Langley, Scott (C.S.); Boerger, Jim (J.G.); Miller, Brian (B.J.); Williams, Brian (B.E.); Sarkisian, Mark (Z.); Hearn, Mark (E.); Porter, Alan (A.T.); Knapper, Jim (J.A.); 'Quiroz, Jesus'; Rodriguez, Cynthia (C.R.); Jones, Laura (L.E.); Messer, Anthony (A.D.); Russell, Don (D.R.); Farley, Tonja (T.L.); Goecke, Kevin (K.D.); Zeigler, Daniel (D.K.); Balbaugh, Richard (R.N.); Price, Adrian (A D.); 'Mickey Horrocks'; Shelton, Chris (C.E.); Young, Richard (R.C.); Wilson, David (D.G.); Maurer, James (J.B.); Oda, Tamaki (T.)
Subject: ETB seal rework - paint dot & placard summary

Importance: High

All,

As promised in our meeting earlier.

Thanks to Scott Langley & Chris Shelton for pulling together the information in a very timely fashion.

Please forward on to anyone I may have missed.

Todd Soper
D35/37/iVCT Engine Systems Engineer
LGDEE OPD
Cell: 313-805-4247

ETB Stop Ship #2603
Silicon (Si) Seal Re-work Identification Marks

7T4E-9F991-GA

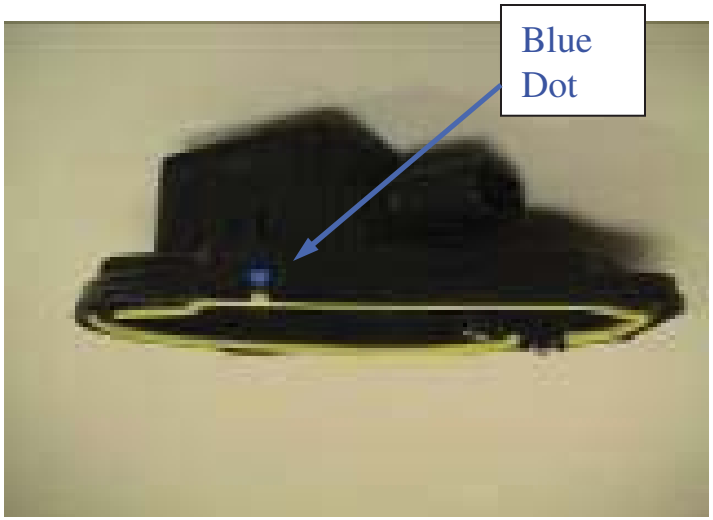
8S4E-9F991-CA

Alert: A12373697

7T4E-9F991-GA

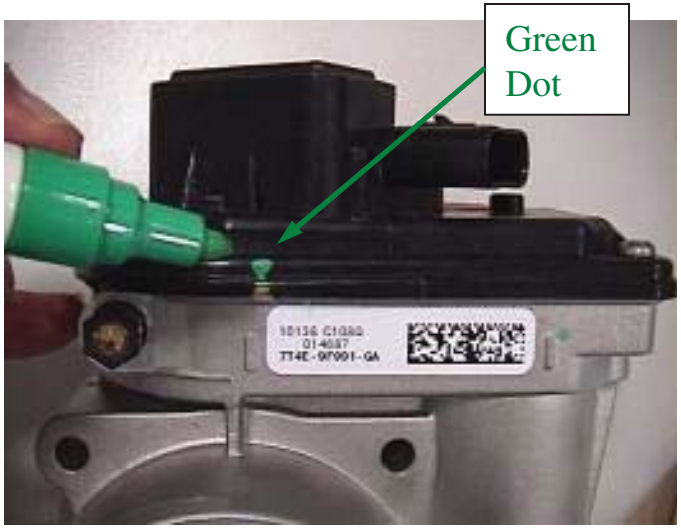
3.5/3.7L base iVCT

Redacted for relevance



For Rework of TPS @ Continental…

- replacement of seal in TPS cover before assembly to ETB.



For Rework of ETB @ Continental…

- Removal of TPS cover, replacement of seal and re-installation of TPS cover to ETB Assembly.

For Rework of ETB @ LEP…

- Removal of TPS cover, replacement of seal and re-installation of TPS to ETB Assembly.

For The ETB which gets REMOVED @ VO…

- Place **red** dot on ETB part number label to signify the part was removed from a vehicle that went through roll test.

Placard for Certified ETB's going to KCAP, Redacted for relevance , HSAP

Redacted for relevance

Placard for Suspect ETB's coming back to LEP from VO Plants

NOT FOR PRODUCTION

REJECT ETB's

Redacted for relevance

TBD

For Rework of ETB @ Delphi…

- Removal of TPS, replacement of seal and re-installation of TPS to ETB Assembly.

(TBD)

From: Zilinskas, Steve (S.E.) <szilinsk@ford.com>
Sent: Tuesday, December 18, 2012 12:52 PM
To: Wagner, Glen (G.C.)
Cc: Harmon, Derek (D.M.)
Subject: ETC Related DTCs
Attachments: Escape_Fusion 2010-12 DTC_Report_Dec18.xlsx

Glen,

FYI

I have attached a list of DTCs being set for the 10'-12' Escape and Fusion.

The 1st worksheet has all of the DTCs being set by the PCM. The individual Vehicle worksheets have Model Engine sorted by year and DTC count.

DTC	DTCCount	Vehicle	DTC Description	Continuos DTC Type * = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light	DTC Monitor Group Description
P1602	14654	Escape /Tribute / Mariner, MY10, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P144A	3039	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1464	2032	Escape /Tribute / Mariner, MY10, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0455	2027	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0457	1619	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P2196	1447	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0456	1306	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1450	1257	Escape /Tribute / Mariner, MY10, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P0735	1251	Escape /Tribute / Mariner, MY10, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P1260	992	Escape /Tribute / Mariner, MY10, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	992	Escape /Tribute / Mariner, MY10, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P2111	713	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0316	679	Escape /Tribute / Mariner, MY10, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0442	625	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0102	598	Escape /Tribute / Mariner, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P1288	573	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0113	420	Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0446	416	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0171	409	Escape /Tribute / Mariner, MY10, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P2195	405	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1285	345	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1A10	335	Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P1299	326	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P06B8	310	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P2112	295	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
U0129	293	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P0722	282	Escape /Tribute / Mariner, MY10, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0443	273	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0141	268	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0130	261	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P1622	256	Escape /Tribute / Mariner, MY10, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0451	253	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0732	252	Escape /Tribute / Mariner, MY10, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P1780	243	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P0301	242	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0122	240	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P1A14	238	Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P1921	232	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Signal	G	NETWORK COMM
P0720	231	Escape /Tribute / Mariner, MY10, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0300	230	Escape /Tribute / Mariner, MY10, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0223	229	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P1703	221	Escape /Tribute / Mariner, MY10, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0562	206	Escape /Tribute / Mariner, MY10, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0729	199	Escape /Tribute / Mariner, MY10, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0054	194	Escape /Tribute / Mariner, MY10, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P1A1B	191	Escape /Tribute / Mariner, MY10, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P0303	182	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)

P0533	182	Escape /Tribute / Mariner, MY10, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0706	180	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0304	176	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0625	174	Escape /Tribute / Mariner, MY10, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P025A	168	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0302	168	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0707	163	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0297	158	Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0A7C	155	Escape /Tribute / Mariner, MY10, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P0104	149	Escape /Tribute / Mariner, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P2101	146	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0867	142	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Fluid Pressure	G+	CCM TRANS SYSTEM
P2701	141	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P1A0C	139	Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
U0109	136	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0756	134	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
U0418	134	Escape /Tribute / Mariner, MY10, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P0733	133	Escape /Tribute / Mariner, MY10, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P2096	133	Escape /Tribute / Mariner, MY10, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P052B	131	Escape /Tribute / Mariner, MY10, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0341	125	Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sensc	G*	CCM CKP/CMP/IGNITION
P0400	114	Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P1289	111	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P2450	111	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0620	110	Escape /Tribute / Mariner, MY10, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P2418	109	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P0581	107	Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P1702	107	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0773	104	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P0016	102	Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0135	102	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P052A	97	Escape /Tribute / Mariner, MY10, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0770	96	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0420	94	Escape /Tribute / Mariner, MY10, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0685	92	Escape /Tribute / Mariner, MY10, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P2135	92	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0505	91	Escape /Tribute / Mariner, MY10, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P1397	90	Escape /Tribute / Mariner, MY10, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1124	84	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P1783	82	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0463	78	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P1705	78	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P060A	73	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0690	73	Escape /Tribute / Mariner, MY10, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0645	72	Escape /Tribute / Mariner, MY10, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P2627	72	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
U0155	70	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0600	69	Escape /Tribute / Mariner, MY10, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P0A7D	69	Escape /Tribute / Mariner, MY10, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
U0111	68	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM

P0403	67	Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0731	67	Escape /Tribute / Mariner, MY10, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0219	66	Escape /Tribute / Mariner, MY10, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P0352	65	Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0340	64	Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P260F	64	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0351	63	Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0353	63	Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0010	62	Escape /Tribute / Mariner, MY10, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P068A	60	Escape /Tribute / Mariner, MY10, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0068	59	Escape /Tribute / Mariner, MY10, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0767	59	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P2704	59	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0354	58	Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0717	58	Escape /Tribute / Mariner, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P1711	57	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1101	56	Escape /Tribute / Mariner, MY10, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P0030	54	Escape /Tribute / Mariner, MY10, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P013A	51	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0128	49	Escape /Tribute / Mariner, MY10, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0627	48	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0715	48	Escape /Tribute / Mariner, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
U0101	48	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P0710	47	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0758	47	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0768	47	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P0453	46	Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P2122	45	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P1408	44	Escape /Tribute / Mariner, MY10, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P2127	44	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0743	42	Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0753	41	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0344	40	Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0657	40	Escape /Tribute / Mariner, MY10, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0748	40	Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0763	38	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0204	37	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0708	37	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P07AA	37	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0605	36	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0108	35	Escape /Tribute / Mariner, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P2702	34	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0532	33	Escape /Tribute / Mariner, MY10, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0750	33	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0607	32	Escape /Tribute / Mariner, MY10, 2.5L	Control Module Performance	G*	CCM MODULE
P061C	32	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0A08	32	Escape /Tribute / Mariner, MY10, 2.5L	DC/DC Converter Status Circuit/Open	G	HYBRID
P1633	32	Escape /Tribute / Mariner, MY10, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P0713	31	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0755	31	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR

U0300	31	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0201	30	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0740	30	Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0765	30	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0106	29	Escape /Tribute / Mariner, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0202	29	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0512	29	Escape /Tribute / Mariner, MY10, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0760	29	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P2270	29	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0109	27	Escape /Tribute / Mariner, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P115E	27	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P0203	26	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0461	26	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0960	26	Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0460	25	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0579	25	Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0174	24	Escape /Tribute / Mariner, MY10, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P073A	24	Escape /Tribute / Mariner, MY10, 2.5L	Stuck in Gear 5		CCM TRANS RATIO
P2107	24	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P0480	23	Escape /Tribute / Mariner, MY10, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P2535	23	Escape /Tribute / Mariner, MY10, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
P0222	22	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P2138	22	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P0172	21	Escape /Tribute / Mariner, MY10, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0563	21	Escape /Tribute / Mariner, MY10, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0012	20	Escape /Tribute / Mariner, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0689	20	Escape /Tribute / Mariner, MY10, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P072F	20	Escape /Tribute / Mariner, MY10, 2.5L	Stuck in Gear 4		CCM TRANS RATIO
P1639	20	Escape /Tribute / Mariner, MY10, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P2700	20	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0734	19	Escape /Tribute / Mariner, MY10, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P073B	19	Escape /Tribute / Mariner, MY10, 2.5L	Stuck in Gear 6		CCM TRANS RATIO
P0741	19	Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P1127	19	Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1744	19	Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2291	18	Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P0603	17	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P061B	17	Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0701	17	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0305	16	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0053	15	Escape /Tribute / Mariner, MY10, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0284	15	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0401	15	Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0642	15	Escape /Tribute / Mariner, MY10, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0761	15	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0774	15	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P0973	15	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P128A	15	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1501	15	Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P025B	14	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)

P0500	14 Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	14 Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0528	14 Escape /Tribute / Mariner, MY10, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0742	14 Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0962	14 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	14 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1290	14 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P2104	14 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2198	14 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0279	13 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P060C	13 Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P0626	13 Escape /Tribute / Mariner, MY10, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0678	13 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0976	13 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0A18	13 Escape /Tribute / Mariner, MY10, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A1F	13 Escape /Tribute / Mariner, MY10, 2.5L	Battery Energy Control Module	G	HYBRID
P0A23	13 Escape /Tribute / Mariner, MY10, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P1184	13 Escape /Tribute / Mariner, MY10, 2.5L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1635	13 Escape /Tribute / Mariner, MY10, 2.5L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P2197	13 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2617	13 Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2802	13 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
B1342	12 Escape /Tribute / Mariner, MY10, 2.5L	ECU is Faulted	G	CCM MODULE
B1342	12 Escape /Tribute / Mariner, MY10, 2.5L	ECU Is Faulted	G	CCM MODULE
B1342	12 Escape /Tribute / Mariner, MY10, 2.5L	ECU is Faulted		CCM VEHICLE
P0266	12 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0269	12 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0306	12 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P050E	12 Escape /Tribute / Mariner, MY10, 2.5L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0611	12 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P0979	12 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1116	12 Escape /Tribute / Mariner, MY10, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P2800	12 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
P0011	11 Escape /Tribute / Mariner, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0131	11 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0267	11 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0272	11 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0273	11 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0276	11 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0307	11 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0677	11 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P1536	11 Escape /Tribute / Mariner, MY10, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P2110	11 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2263	11 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P0000	10 Escape /Tribute / Mariner, MY10, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0123	10 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0261	10 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0264	10 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0275	10 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0346	10 Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION

P0404	10	Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0671	10	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	10	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	10	Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0983	10	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A03	10	Escape /Tribute / Mariner, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P115A	10	Escape /Tribute / Mariner, MY10, 2.5L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1502	10	Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1709	10	Escape /Tribute / Mariner, MY10, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P2600	10	Escape /Tribute / Mariner, MY10, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2614	10	Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P2703	10	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2801	10	Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
B1600	9	Escape /Tribute / Mariner, MY10, 2.5L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0133	9	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0138	9	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0191	9	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0270	9	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0282	9	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0320	9	Escape /Tribute / Mariner, MY10, 2.5L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0405	9	Escape /Tribute / Mariner, MY10, 2.5L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0472	9	Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0751	9	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0984	9	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P0A00	9	Escape /Tribute / Mariner, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P1247	9	Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1316	9	Escape /Tribute / Mariner, MY10, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1335	9	Escape /Tribute / Mariner, MY10, 2.5L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P2128	9	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2271	9	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2285	9	Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P0022	8	Escape /Tribute / Mariner, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0088	8	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0111	8	Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0281	8	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0299	8	Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0325	8	Escape /Tribute / Mariner, MY10, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0470	8	Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0481	8	Escape /Tribute / Mariner, MY10, 2.5L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P050B	8	Escape /Tribute / Mariner, MY10, 2.5L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0672	8	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	8	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	8	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0757	8	Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P1211	8	Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1233	8	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P132B	8	Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1378	8	Escape /Tribute / Mariner, MY10, 2.5L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P2100	8	Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2269	8	Escape /Tribute / Mariner, MY10, 2.5L	Water in Fuel Condition		NO-FAULT CODES

P2290	8 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P0193	7 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0231	7 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0278	7 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0308	7 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0462	7 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0565	7 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	7 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	7 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	7 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	7 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P060D	7 Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
P0712	7 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0752	7 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P2105	7 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2610	7 Escape /Tribute / Mariner, MY10, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
B1601	6 Escape /Tribute / Mariner, MY10, 2.5L	Unprogrammed PATS Key		CCM VEHICLE
P0107	6 Escape /Tribute / Mariner, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0114	6 Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0155	6 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0232	6 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0336	6 Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0541	6 Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0676	6 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0772	6 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0977	6 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A05	6 Escape /Tribute / Mariner, MY10, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P1277	6 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1294	6 Escape /Tribute / Mariner, MY10, 2.5L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
B1602	5 Escape /Tribute / Mariner, MY10, 2.5L	Partial PATS Key was Read		CCM VEHICLE
P0046	5 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0101	5 Escape /Tribute / Mariner, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0161	5 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0237	5 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0263	5 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P040D	5 Escape /Tribute / Mariner, MY10, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0430	5 Escape /Tribute / Mariner, MY10, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0475	5 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0476	5 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0506	5 Escape /Tribute / Mariner, MY10, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P065B	5 Escape /Tribute / Mariner, MY10, 2.5L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0670	5 Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0703	5 Escape /Tribute / Mariner, MY10, 2.5L	Brake Switch "B" Circuit		CCM VEHICLE
P072E	5 Escape /Tribute / Mariner, MY10, 2.5L	Stuck in Gear 3		CCM TRANS RATIO
P0762	5 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0769	5 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P07A5	5 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO
P07A9	5 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "D" Stuck On	G+	CCM TRANS RATIO
P0963	5 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A10	5 Escape /Tribute / Mariner, MY10, 2.5L	DC/DC Converter Status Circuit High	G	HYBRID

P0C2F	5 Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P1151	5 Escape /Tribute / Mariner, MY10, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1280	5 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1282	5 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1636	5 Escape /Tribute / Mariner, MY10, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P1646	5 Escape /Tribute / Mariner, MY10, 2.5L	Linear O2 Sensor Control Chip (Bank 1)	G	HO2S (COMPONENT)
P1910	5 Escape /Tribute / Mariner, MY10, 2.5L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2002	5 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P200E	5 Escape /Tribute / Mariner, MY10, 2.5L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P2106	5 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2803	5 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "B" Circuit High	G	CCM TRANS SENSOR
U0422	5 Escape /Tribute / Mariner, MY10, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
B1213	4 Escape /Tribute / Mariner, MY10, 2.5L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
P0087	4 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0098	4 Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature Sensor 2 Circuit High (Bank 1)	G*	CCM TEMP
P0103	4 Escape /Tribute / Mariner, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0116	4 Escape /Tribute / Mariner, MY10, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0121	4 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P0153	4 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0175	4 Escape /Tribute / Mariner, MY10, 2.5L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0196	4 Escape /Tribute / Mariner, MY10, 2.5L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0198	4 Escape /Tribute / Mariner, MY10, 2.5L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0234	4 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0355	4 Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0356	4 Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0478	4 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0482	4 Escape /Tribute / Mariner, MY10, 2.5L	Fan 3 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0529	4 Escape /Tribute / Mariner, MY10, 2.5L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P0643	4 Escape /Tribute / Mariner, MY10, 2.5L	Sensor Reference Voltage "A" Circuit High	G*	CCM MODULE
P064D	4 Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P0759	4 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0980	4 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P1102	4 Escape /Tribute / Mariner, MY10, 2.5L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1235	4 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1271	4 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	4 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1507	4 Escape /Tribute / Mariner, MY10, 2.5L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P1575	4 Escape /Tribute / Mariner, MY10, 2.5L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P163F	4 Escape /Tribute / Mariner, MY10, 2.5L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P164A	4 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P1670	4 Escape /Tribute / Mariner, MY10, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1690	4 Escape /Tribute / Mariner, MY10, 2.5L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P2043	4 Escape /Tribute / Mariner, MY10, 2.5L	Reductant Temperature Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P20E3	4 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	4 Escape /Tribute / Mariner, MY10, 2.5L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2132	4 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P242D	4 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 3)		EXH GAS SENSOR (SYSTEM)
P2463	4 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	4 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2783	4 Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Temperature Too High	G*	CCM TRANS TCC

U0105	4 Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0306	4 Escape /Tribute / Mariner, MY10, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
P006A	3 Escape /Tribute / Mariner, MY10, 2.5L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P00B7	3 Escape /Tribute / Mariner, MY10, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0118	3 Escape /Tribute / Mariner, MY10, 2.5L	Engine Coolant Temperature Sensor 1 Circuit High	G*	CCM TEMP
P0125	3 Escape /Tribute / Mariner, MY10, 2.5L	Insufficient Coolant Temp For Closed Loop Fuel Control	G*	ENGINE COOLING (SYSTEM)
P012F	3 Escape /Tribute / Mariner, MY10, 2.5L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0132	3 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0150	3 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0152	3 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0190	3 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P0206	3 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0357	3 Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0380	3 Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P0471	3 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0488	3 Escape /Tribute / Mariner, MY10, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0507	3 Escape /Tribute / Mariner, MY10, 2.5L	Idle Control System - RPM Higher Than Expected	G*	CCM IDLE AIR CTRL
P050A	3 Escape /Tribute / Mariner, MY10, 2.5L	Cold Start Idle Control System Performance	G*	CSER (COMPONENT)
P0606	3 Escape /Tribute / Mariner, MY10, 2.5L	Control Module Processor	G*	CCM MODULE
P0744	3 Escape /Tribute / Mariner, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Intermittent	G*	CCM TRANS ACTUATOR
P0745	3 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0771	3 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P0775	3 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid B	G*	CCM TRANS ACTUATOR
P0A09	3 Escape /Tribute / Mariner, MY10, 2.5L	DC/DC Converter Status Circuit Low	G	HYBRID
P0A11	3 Escape /Tribute / Mariner, MY10, 2.5L	DC/DC Converter Enable Circuit/Open	G	HYBRID
P1119	3 Escape /Tribute / Mariner, MY10, 2.5L	Manifold Air Temperature Circuit High		CCM TEMP
P1148	3 Escape /Tribute / Mariner, MY10, 2.5L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1246	3 Escape /Tribute / Mariner, MY10, 2.5L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1270	3 Escape /Tribute / Mariner, MY10, 2.5L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1272	3 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	3 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1291	3 Escape /Tribute / Mariner, MY10, 2.5L	Injector High Side Short To GND Or VBATT (Bank 1)		FUEL (COMPONENT)
P1293	3 Escape /Tribute / Mariner, MY10, 2.5L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1336	3 Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1401	3 Escape /Tribute / Mariner, MY10, 2.5L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1500	3 Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1746	3 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Open Circuit	G^	CCM TRANS ACTUATOR
P1747	3 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P179A	3 Escape /Tribute / Mariner, MY10, 2.5L	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction		BOOST CONTROL (COMPONENT)
P1A0D	3 Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P2004	3 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P2006	3 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P200C	3 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P2033	3 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2123	3 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2284	3 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2452	3 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2455	3 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit High		PM FILTER (COMPONENT)
P2623	3 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
U0121	3 Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM

U0140	3 Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Body Control Module	G	NETWORK COMM
B1681	2 Escape /Tribute / Mariner, MY10, 2.5L	PATS Transceiver Signal Is Not Being Received by the PATS Control		CCM VEHICLE
P0001	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0003	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Volume Regulator Control Circuit Low	G*	FUEL (COMPONENT)
P0007	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Shutoff Valve "A" Control Circuit High		FUEL (COMPONENT)
P0018	2 Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P006B	2 Escape /Tribute / Mariner, MY10, 2.5L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P008C	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Cooler Pump Control Circuit/Open		FUEL (COMPONENT)
P008D	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Cooler Pump Control Circuit Low		FUEL (COMPONENT)
P0090	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pressure Regulator Control Circuit/Open		FUEL (COMPONENT)
P0091	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pressure Regulator Control Circuit Low		FUEL (COMPONENT)
P0100	2 Escape /Tribute / Mariner, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0110	2 Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit (Bank 1)		CCM TEMP
P0112	2 Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	CCM TEMP
P0136	2 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0148	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0183	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0207	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0221	2 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0265	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 2 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0268	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0283	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0345	2 Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0349	2 Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0358	2 Escape /Tribute / Mariner, MY10, 2.5L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0381	2 Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug/Heater Indicator Control Circuit/Open		CCM GLOW PLUG
P041D	2 Escape /Tribute / Mariner, MY10, 2.5L	EGR Temperature Sensor "B" Circuit High		EGR (COMPONENT)
P042E	2 Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Control Stuck Open		EGR (COMPONENT)
P0452	2 Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Pressure Sensor/Switch Low	G*	EVAP (COMPONENT)
P0473	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit High		BOOST CONTROL (COMPONENT)
P0546	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 1)		EXH GAS SENSOR (SYSTEM)
P0553	2 Escape /Tribute / Mariner, MY10, 2.5L	Power Steering Pressure Sensor/Switch Circuit High	G	CCM A/C, FAN, PS, GEN
P0571	2 Escape /Tribute / Mariner, MY10, 2.5L	Brake Switch "A" Circuit	G	CCM VEHICLE
P0604	2 Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Random Access Memory (RAM) Error	G*	CCM MODULE
P0622	2 Escape /Tribute / Mariner, MY10, 2.5L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P0704	2 Escape /Tribute / Mariner, MY10, 2.5L	Clutch Switch Input Circuit	G	CCM VEHICLE
P0718	2 Escape /Tribute / Mariner, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit Intermittent	G+	CCM TRANS SENSOR
P0721	2 Escape /Tribute / Mariner, MY10, 2.5L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P0795	2 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "C"	G*	CCM TRANS ACTUATOR
P07E0	2 Escape /Tribute / Mariner, MY10, 2.5L	Incorrect Shift from Gear 5		CCM TRANS RATIO
P0A12	2 Escape /Tribute / Mariner, MY10, 2.5L	DC/DC Converter Enable Circuit Low	G	HYBRID
P1111	2 Escape /Tribute / Mariner, MY10, 2.5L	System Pass		NO-FAULT CODES
P1131	2 Escape /Tribute / Mariner, MY10, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1152	2 Escape /Tribute / Mariner, MY10, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P117B	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Correlation (Bank 1)		EXH GAS SENSOR (SYSTEM)
P1210	2 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Higher Than Desired (engine off)		FUEL (COMPONENT)
P1212	2 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1248	2 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1249	2 Escape /Tribute / Mariner, MY10, 2.5L	Wastegate Control Valve "A" Performance		BOOST CONTROL (SYSTEM)
P1273	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)

P1274	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1276	2 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1283	2 Escape /Tribute / Mariner, MY10, 2.5L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1309	2 Escape /Tribute / Mariner, MY10, 2.5L	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*	CCM CKP/CMP/IGNITION
P1379	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Injector Control Module System Voltage High		FUEL (COMPONENT)
P1451	2 Escape /Tribute / Mariner, MY10, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1469	2 Escape /Tribute / Mariner, MY10, 2.5L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1504	2 Escape /Tribute / Mariner, MY10, 2.5L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P1519	2 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1550	2 Escape /Tribute / Mariner, MY10, 2.5L	Power Steering Pressure Sensor Out Of Self Test Range	G	CCM A/C, FAN, PS, GEN
P1760	2 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "A" Short Circuit Intermittent	G^	CCM TRANS ACTUATOR
P1A13	2 Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Regenerative Braking Disabled	G	HYBRID
P2031	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P2080	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2081	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2084	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P2097	2 Escape /Tribute / Mariner, MY10, 2.5L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P20E2	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E4	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2131	2 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2139	2 Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P215A	2 Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed / Wheel Speed Correlation		CCM TRANS SENSOR
P2289	2 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Too High - Engine Off		FUEL (COMPONENT)
P228F	2 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too High		FUEL (SYSTEM)
P242B	2 Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P244A	2 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Differential Pressure Too Low (Bank 1)		PM FILTER (SYSTEM)
P2457	2 Escape /Tribute / Mariner, MY10, 2.5L	EGR Cooler "A" Efficiency Below Threshold		EGR (SYSTEM)
P2459	2 Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Regeneration Frequency (Bank 1)		PM FILTER (SYSTEM)
P2533	2 Escape /Tribute / Mariner, MY10, 2.5L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P2705	2 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2806	2 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor Alignment	G	CCM TRANS SENSOR
P2A00	2 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit Range/Performance (Bank 1 Sensor 1)		HO2S (COMPONENT)
U0073	2 Escape /Tribute / Mariner, MY10, 2.5L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0151	2 Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Restraints Control Module	G	NETWORK COMM
U210B	2 Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
B2103	1 Escape /Tribute / Mariner, MY10, 2.5L	Antenna Not Connected		CCM VEHICLE
B2139	1 Escape /Tribute / Mariner, MY10, 2.5L	PCM_ID Does Not Match between PCM and PATS		CCM VEHICLE
P0020	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0021	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0059	1 Escape /Tribute / Mariner, MY10, 2.5L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0060	1 Escape /Tribute / Mariner, MY10, 2.5L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0069	1 Escape /Tribute / Mariner, MY10, 2.5L	MAP - Barometric Pressure Correlation		CCM MAF/MAP/BARO
P0073	1 Escape /Tribute / Mariner, MY10, 2.5L	Ambient Air Temperature Sensor Circuit "A" High	G*	CCM TEMP
P0089	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pressure Regulator Performance		FUEL (COMPONENT)
P0093	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel System Leak Detected - Large Leak	G	FUEL (SYSTEM)
P009A	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature /Ambient Air Temperature Correlation	G*	CCM TEMP
P00DC	1 Escape /Tribute / Mariner, MY10, 2.5L	Ambient Air Temperature Sensor Circuit "B" High		CCM TEMP
P0134	1 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0154	1 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit No Activity Detected (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0156	1 Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)

P0181	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Temperature Sensor "A" Circuit Range/Performance		FUEL (COMPONENT)
P0192	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit Low (Bank 1)	G*	FUEL (COMPONENT)
P0194	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit Intermittent/Erratic (Bank 1)	G	FUEL (COMPONENT)
P0197	1 Escape /Tribute / Mariner, MY10, 2.5L	Engine Oil Temperature Sensor "A" Circuit Low	G*	CCM TEMP
P0208	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0217	1 Escape /Tribute / Mariner, MY10, 2.5L	Engine Coolant Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0230	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0238	1 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit High	G*	BOOST CONTROL (COMPONENT)
P0262	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0274	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 5 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0280	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 Injector "A" Circuit High	G	FUEL (COMPONENT)
P02D1	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 3 Fuel Injector Offset Learning at Max Limit		FUEL (COMPONENT)
P02E0	1 Escape /Tribute / Mariner, MY10, 2.5L	Diesel Intake Air Flow Control Circuit/Open		EGR (COMPONENT)
P02E9	1 Escape /Tribute / Mariner, MY10, 2.5L	Diesel Intake Air Flow Position Sensor Circuit High		EGR (COMPONENT)
P0310	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 10 Misfire Detected	G*	MISFIRE (SYSTEM)
P0330	1 Escape /Tribute / Mariner, MY10, 2.5L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0335	1 Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0337	1 Escape /Tribute / Mariner, MY10, 2.5L	Crankshaft Position Sensor "A" Circuit Low		CCM CKP/CMP/IGNITION
P0402	1 Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P0406	1 Escape /Tribute / Mariner, MY10, 2.5L	EGR Sensor "A" Circuit High	G*	EGR (COMPONENT)
P0487	1 Escape /Tribute / Mariner, MY10, 2.5L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0490	1 Escape /Tribute / Mariner, MY10, 2.5L	EGR "A" Control Circuit High		EGR (COMPONENT)
P0503	1 Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G	CCM TRANS (NON-MIL)
P0515	1 Escape /Tribute / Mariner, MY10, 2.5L	Battery Temperature Sensor Circuit		CCM VEHICLE
P0560	1 Escape /Tribute / Mariner, MY10, 2.5L	System Voltage		CCM A/C, FAN, PS, GEN
P061A	1 Escape /Tribute / Mariner, MY10, 2.5L	Internal Control Module Torque Performance	G+	ETC (SYSTEM)
P0623	1 Escape /Tribute / Mariner, MY10, 2.5L	Generator Lamp Control Circuit		CCM A/C, FAN, PS, GEN
P062E	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Injector Driver Circuit Performance (Bank 2)	G*	CCM MODULE
P0649	1 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control Lamp Control Circuit		CCM VEHICLE
P0684	1 Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P06A6	1 Escape /Tribute / Mariner, MY10, 2.5L	Sensor Reference Voltage "A" Circuit Range/Performance		CCM MODULE
P0700	1 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0705	1 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0754	1 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "A" Intermittent	G+	CCM TRANS ACTUATOR
P0766	1 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0781	1 Escape /Tribute / Mariner, MY10, 2.5L	1-2 Shift	G^	CCM TRANS RATIO
P0782	1 Escape /Tribute / Mariner, MY10, 2.5L	2-3 Shift	G^	CCM TRANS RATIO
P0796	1 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P07D7	1 Escape /Tribute / Mariner, MY10, 2.5L	Stuck in Gear 8		CCM TRANS RATIO
P07E1	1 Escape /Tribute / Mariner, MY10, 2.5L	Incorrect Shift from Gear 6		CCM TRANS RATIO
P0981	1 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Control Circuit Range/Performance		CCM TRANS RATIO
P0D00	1 Escape /Tribute / Mariner, MY10, 2.5L	Control Pilot Charging Ventilation Switch Circuit/Open		HYBRID
P1100	1 Escape /Tribute / Mariner, MY10, 2.5L	Mass Air Flow Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P1105	1 Escape /Tribute / Mariner, MY10, 2.5L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P1106	1 Escape /Tribute / Mariner, MY10, 2.5L	Dual Alternator Lower Fault		CCM A/C, FAN, PS, GEN
P1120	1 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	ETC (COMPONENT)
P1125	1 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Position Sensor "A" Intermittent	G	ETC (COMPONENT)
P1132	1 Escape /Tribute / Mariner, MY10, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1139	1 Escape /Tribute / Mariner, MY10, 2.5L	Water in Fuel Indicator Circuit		CCM VEHICLE
P1150	1 Escape /Tribute / Mariner, MY10, 2.5L	Lack Of HO2S21 Switches - Fuel Trim At Limit	G*	HO2S (SYSTEM)

P1209	1 Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Peak Delta Test Fault		FUEL (COMPONENT)
P120F	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1237	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P123C	1 Escape /Tribute / Mariner, MY10, 2.5L	Cold Start Turbocharger Protection - Forced Limited Power		BOOST CONTROL (SYSTEM)
P1267	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 7 High To Low Side Short	G*	FUEL (COMPONENT)
P127A	1 Escape /Tribute / Mariner, MY10, 2.5L	Aborted KOER - Fuel Pressure Failure		FUEL (SYSTEM)
P1292	1 Escape /Tribute / Mariner, MY10, 2.5L	Injector High Side Short To GND Or VBATT (Bank 2)		FUEL (COMPONENT)
P1298	1 Escape /Tribute / Mariner, MY10, 2.5L	Injector Driver Module Failure		FUEL (COMPONENT)
P132C	1 Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Voltage		BOOST CONTROL (COMPONENT)
P1380	1 Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Actuator Circuit (Bank 1)	G*	VVT (COMPONENT)
P1383	1 Escape /Tribute / Mariner, MY10, 2.5L	Camshaft Position Timing Over Retarded (Bank 1)	G*	VVT (SYSTEM)
P1395	1 Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug Monitor Fault (Bank 1)		CCM GLOW PLUG
P1396	1 Escape /Tribute / Mariner, MY10, 2.5L	Glow Plug Monitor Fault (Bank 2)		CCM GLOW PLUG
P1409	1 Escape /Tribute / Mariner, MY10, 2.5L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P145E	1 Escape /Tribute / Mariner, MY10, 2.5L	PCV Heater Control "B" Circuit	G	PCV
P1460	1 Escape /Tribute / Mariner, MY10, 2.5L	Wide Open Throttle A/C Cutout Circuit	G	CCM A/C, FAN, PS, GEN
P1506	1 Escape /Tribute / Mariner, MY10, 2.5L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1518	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P1531	1 Escape /Tribute / Mariner, MY10, 2.5L	Invalid Test - Accelerator Pedal Movement		NO-FAULT CODES
P1537	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P1558	1 Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 8 Injector Circuit Range/Performance		FUEL (COMPONENT)
P1561	1 Escape /Tribute / Mariner, MY10, 2.5L	Brake Line Pressure Sensor Circuit	G	CCM VEHICLE
P1572	1 Escape /Tribute / Mariner, MY10, 2.5L	Brake Pedal Switch Circuit	G	CCM VEHICLE
P160A	1 Escape /Tribute / Mariner, MY10, 2.5L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P1610	1 Escape /Tribute / Mariner, MY10, 2.5L	Interactive Reprogramming Code - replace module	[G]	CCM MODULE
P1617	1 Escape /Tribute / Mariner, MY10, 2.5L	Interactive Reprogramming Code - block program error	[G]	CCM MODULE
P161A	1 Escape /Tribute / Mariner, MY10, 2.5L	Incorrect Response from Immobilizer Control Module	G	CCM VEHICLE
P163A	1 Escape /Tribute / Mariner, MY10, 2.5L	Generator "B" Control Circuit		CCM A/C, FAN, PS, GEN
P1700	1 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Indeterminate Failure (Failed to Neutral)	G*^	CCM TRANS SYSTEM
P1715	1 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "B" Inductive Signature	G*	CCM TRANS ACTUATOR
P1717	1 Escape /Tribute / Mariner, MY10, 2.5L	Shift Solenoid "D" Inductive Signature	G*	CCM TRANS ACTUATOR
P1728	1 Escape /Tribute / Mariner, MY10, 2.5L	Transmission Slip	G^	CCM TRANS RATIO
P1745	1 Escape /Tribute / Mariner, MY10, 2.5L	Line Pressure Solenoid		CCM TRANS ACTUATOR
P1788	1 Escape /Tribute / Mariner, MY10, 2.5L	Pressure Control Solenoid "B" Open Circuit	G^	CCM TRANS ACTUATOR
P1900	1 Escape /Tribute / Mariner, MY10, 2.5L	Output Shaft Speed Sensor Circuit Intermittent	G	CCM TRANS SENSOR
P193C	1 Escape /Tribute / Mariner, MY10, 2.5L	Steering Wheel Angle Signal	G	NETWORK COMM
P193D	1 Escape /Tribute / Mariner, MY10, 2.5L	Cruise Control Multi-Function Input Signal	G	NETWORK COMM
P1A00	1 Escape /Tribute / Mariner, MY10, 2.5L			#N/A
P1A0E	1 Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Motor Disabled	G	HYBRID
P1A0F	1 Escape /Tribute / Mariner, MY10, 2.5L	Hybrid Powertrain Control Module - Vehicle Disabled	G	HYBRID
P2007	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 2)	G	CCM IMRC/IMCC
P2014	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Position Sensor/Switch Circuit (Bank 1)	G*	CCM IMRC/IMCC
P2020	1 Escape /Tribute / Mariner, MY10, 2.5L	Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance (Ban	G*	CCM IMRC/IMCC
P202D	1 Escape /Tribute / Mariner, MY10, 2.5L	Reductant Leakage		NOX CATALYST (SYSTEM)
P203F	1 Escape /Tribute / Mariner, MY10, 2.5L	Reductant Level Too Low		NOX CATALYST (SYSTEM)
P2067	1 Escape /Tribute / Mariner, MY10, 2.5L	Fuel Level Sensor "B" Circuit Low	G*	CCM FUEL LEVEL
P2072	1 Escape /Tribute / Mariner, MY10, 2.5L	Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
P2073	1 Escape /Tribute / Mariner, MY10, 2.5L	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Idle		CCM MAF/MAP/BARO
P2099	1 Escape /Tribute / Mariner, MY10, 2.5L	Post Catalyst Fuel Trim System Too Rich (Bank 2)	G*	HO2S (SYSTEM)
P20B9	1 Escape /Tribute / Mariner, MY10, 2.5L	Reductant Heater "A" Control Circuit/Open		NOX CATALYST (COMPONENT)

P20BD	1	Escape /Tribute / Mariner, MY10, 2.5L	Reductant Heater "B" Control Circuit/Open		NOX CATALYST (COMPONENT)
P20BE	1	Escape /Tribute / Mariner, MY10, 2.5L	Reductant Heater "B" Control Performance		NOX CATALYST (COMPONENT)
P20EE	1	Escape /Tribute / Mariner, MY10, 2.5L	SCR NOx Catalyst Efficiency Below Threshold (Bank 1)		NOX CATALYST (SYSTEM)
P2126	1	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2140	1	Escape /Tribute / Mariner, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P215B	1	Escape /Tribute / Mariner, MY10, 2.5L	Vehicle Speed / Output Shaft Speed Correlation		CCM TRANS SENSOR
P2199	1	Escape /Tribute / Mariner, MY10, 2.5L	Intake Air Temperature 1 / 2 Correlation		CCM TEMP
P2200	1	Escape /Tribute / Mariner, MY10, 2.5L	NOx Sensor Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2209	1	Escape /Tribute / Mariner, MY10, 2.5L	NOx Sensor Heater Sense Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P220A	1	Escape /Tribute / Mariner, MY10, 2.5L	NOx Sensor Supply Voltage Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2254	1	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Negative Current Control Circuit/Open (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P2262	1	Escape /Tribute / Mariner, MY10, 2.5L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2272	1	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2273	1	Escape /Tribute / Mariner, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2286	1	Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Sensor Circuit High		FUEL (COMPONENT)
P2287	1	Escape /Tribute / Mariner, MY10, 2.5L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2425	1	Escape /Tribute / Mariner, MY10, 2.5L	EGR Cooling Valve Control Circuit/Open		EGR (COMPONENT)
P242E	1	Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P2456	1	Escape /Tribute / Mariner, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit Intermittent/Erratic		PM FILTER (COMPONENT)
P246E	1	Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 4)		EXH GAS SENSOR (COMPONENT)
P2471	1	Escape /Tribute / Mariner, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 4)		EXH GAS SENSOR (COMPONENT)
P249C	1	Escape /Tribute / Mariner, MY10, 2.5L	Excessive Time To Enter Closed Loop Reductant Injection Control		NOX CATALYST (SYSTEM)
P24A0	1	Escape /Tribute / Mariner, MY10, 2.5L	Closed Loop Particulate Filter Regeneration Control At Limit - Temperature Too Low		PM FILTER (SYSTEM)
P2500	1	Escape /Tribute / Mariner, MY10, 2.5L	Generator Lamp/L-Terminal Circuit Low		CCM A/C, FAN, PS, GEN
P252F	1	Escape /Tribute / Mariner, MY10, 2.5L	Engine Oil Level Too High		NO-FAULT CODES
P2539	1	Escape /Tribute / Mariner, MY10, 2.5L	Low Pressure Fuel System Sensor Circuit		FUEL (COMPONENT)
P268C	1	Escape /Tribute / Mariner, MY10, 2.5L	Cylinder 1 Injector Data Incompatible		NO-FAULT CODES
U0104	1	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Cruise Control Module	G	NETWORK COMM
U0106	1	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Glow Plug Control Module 1		CCM GLOW PLUG
U0167	1	Escape /Tribute / Mariner, MY10, 2.5L	Lost Communication With Vehicle Immobilizer Control Module	G	NETWORK COMM
U0407	1	Escape /Tribute / Mariner, MY10, 2.5L	Invalid Data Received from Glow Plug Control Module 1		CCM GLOW PLUG
U1013	1	Escape /Tribute / Mariner, MY10, 2.5L	Invalid Internal Control Module Monitoring Data Received from TCM	G	NETWORK COMM
U1051	1	Escape /Tribute / Mariner, MY10, 2.5L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
U2023	1	Escape /Tribute / Mariner, MY10, 2.5L	Fault Received From External Node	G	NO-FAULT CODES
U2511	1	Escape /Tribute / Mariner, MY10, 2.5L	CAN - Data Mis-Match (Receive data does not match expected)		CCM VEHICLE
P1602	15914	Escape /Tribute / Mariner, MY10, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0456	3973	Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P2111	2531	Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P1464	2519	Escape /Tribute / Mariner, MY10, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P2112	2090	Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P1260	1094	Escape /Tribute / Mariner, MY10, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	1094	Escape /Tribute / Mariner, MY10, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0735	1057	Escape /Tribute / Mariner, MY10, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0316	868	Escape /Tribute / Mariner, MY10, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0455	768	Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0122	675	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	665	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P2198	624	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2196	610	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1450	537	Escape /Tribute / Mariner, MY10, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)

P0457	501 Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P1288	474 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P013C	434 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0446	381 Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P2101	373 Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0443	356 Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0102	343 Escape /Tribute / Mariner, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P1780	307 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P2197	305 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P1921	284 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Signal	G	NETWORK COMM
P2195	283 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1703	281 Escape /Tribute / Mariner, MY10, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P1622	259 Escape /Tribute / Mariner, MY10, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0297	234 Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0685	232 Escape /Tribute / Mariner, MY10, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0732	227 Escape /Tribute / Mariner, MY10, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0113	223 Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P013A	211 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0706	211 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P025A	202 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P1124	196 Escape /Tribute / Mariner, MY10, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0707	194 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0300	193 Escape /Tribute / Mariner, MY10, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P144A	179 Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
U0109	178 Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0022	174 Escape /Tribute / Mariner, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0104	174 Escape /Tribute / Mariner, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0174	172 Escape /Tribute / Mariner, MY10, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0304	172 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0722	169 Escape /Tribute / Mariner, MY10, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0012	168 Escape /Tribute / Mariner, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0346	166 Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0533	166 Escape /Tribute / Mariner, MY10, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P06B8	165 Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0171	159 Escape /Tribute / Mariner, MY10, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0303	158 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0301	157 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0505	157 Escape /Tribute / Mariner, MY10, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P0341	152 Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P1285	148 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0306	144 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P1299	136 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0729	135 Escape /Tribute / Mariner, MY10, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0305	130 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0720	122 Escape /Tribute / Mariner, MY10, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0302	121 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P1702	115 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P1783	112 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0773	109 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P0770	103 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR

P2135	101	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0625	101	Escape /Tribute / Mariner, MY10, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P1289	97	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P1397	96	Escape /Tribute / Mariner, MY10, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0060	95	Escape /Tribute / Mariner, MY10, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0175	94	Escape /Tribute / Mariner, MY10, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0172	91	Escape /Tribute / Mariner, MY10, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0581	90	Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0020	87	Escape /Tribute / Mariner, MY10, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P1705	87	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P0010	86	Escape /Tribute / Mariner, MY10, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0155	86	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0403	86	Escape /Tribute / Mariner, MY10, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0340	79	Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P1127	77	Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P0345	75	Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0733	74	Escape /Tribute / Mariner, MY10, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P2627	73	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0620	72	Escape /Tribute / Mariner, MY10, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0717	72	Escape /Tribute / Mariner, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P260F	72	Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0135	70	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P1101	70	Escape /Tribute / Mariner, MY10, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P2704	70	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0349	69	Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P2122	68	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0344	67	Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P2630	65	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0767	63	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P2127	61	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0710	60	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0715	59	Escape /Tribute / Mariner, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0451	56	Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P07AA	54	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0600	51	Escape /Tribute / Mariner, MY10, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P1711	51	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0690	50	Escape /Tribute / Mariner, MY10, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0054	49	Escape /Tribute / Mariner, MY10, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0645	49	Escape /Tribute / Mariner, MY10, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0731	49	Escape /Tribute / Mariner, MY10, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P060A	48	Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0627	48	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P2701	47	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0128	45	Escape /Tribute / Mariner, MY10, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P2270	44	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0708	43	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0743	43	Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0108	41	Escape /Tribute / Mariner, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0512	41	Escape /Tribute / Mariner, MY10, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P0768	41	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR

P2098	41	Escape /Tribute / Mariner, MY10, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P0161	40	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0713	40	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0356	39	Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P2272	39	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0141	38	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0657	38	Escape /Tribute / Mariner, MY10, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0748	38	Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P1639	37	Escape /Tribute / Mariner, MY10, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0758	36	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P2138	36	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P0463	35	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0011	34	Escape /Tribute / Mariner, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0430	34	Escape /Tribute / Mariner, MY10, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0763	34	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P1744	34	Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P0021	33	Escape /Tribute / Mariner, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0753	33	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P073A	32	Escape /Tribute / Mariner, MY10, 3.0L	Stuck in Gear 5		CCM TRANS RATIO
P1489	32	Escape /Tribute / Mariner, MY10, 3.0L	PCV Heater Control Circuit	G	PCV
P0765	31	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0741	30	Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
U0300	29	Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0605	29	Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0756	29	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P1633	29	Escape /Tribute / Mariner, MY10, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P0219	28	Escape /Tribute / Mariner, MY10, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0579	28	Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0740	28	Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0755	28	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0354	27	Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P072F	26	Escape /Tribute / Mariner, MY10, 3.0L	Stuck in Gear 4		CCM TRANS RATIO
P073B	26	Escape /Tribute / Mariner, MY10, 3.0L	Stuck in Gear 6		CCM TRANS RATIO
P0750	26	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0960	26	Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0150	25	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0400	25	Escape /Tribute / Mariner, MY10, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0420	25	Escape /Tribute / Mariner, MY10, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P2107	24	Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P2096	24	Escape /Tribute / Mariner, MY10, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P0222	23	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0016	23	Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0480	23	Escape /Tribute / Mariner, MY10, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0532	23	Escape /Tribute / Mariner, MY10, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0607	23	Escape /Tribute / Mariner, MY10, 3.0L	Control Module Performance	G*	CCM MODULE
P0760	23	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0153	22	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0355	22	Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P1635	22	Escape /Tribute / Mariner, MY10, 3.0L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P0453	21	Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)

P0109	20	Escape /Tribute / Mariner, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0330	20	Escape /Tribute / Mariner, MY10, 3.0L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0351	19	Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P068A	19	Escape /Tribute / Mariner, MY10, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0774	19	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P2702	19	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0528	18	Escape /Tribute / Mariner, MY10, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0201	17	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	17	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0626	17	Escape /Tribute / Mariner, MY10, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P061B	16	Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0202	16	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	16	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0404	16	Escape /Tribute / Mariner, MY10, 3.0L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0689	16	Escape /Tribute / Mariner, MY10, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0962	16	Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1575	16	Escape /Tribute / Mariner, MY10, 3.0L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P2128	16	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P0018	15	Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0352	15	Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0353	15	Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0460	15	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0734	15	Escape /Tribute / Mariner, MY10, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0982	15	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1501	15	Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0130	14	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0206	14	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P2271	14	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0123	13	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0205	13	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0401	13	Escape /Tribute / Mariner, MY10, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0611	13	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P1336	13	Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P2123	13	Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2700	13	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2104	12	Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P0138	12	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P025B	12	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0299	12	Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0563	12	Escape /Tribute / Mariner, MY10, 3.0L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0742	12	Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0979	12	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P128A	12	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P2273	12	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
U0155	12	Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0059	11	Escape /Tribute / Mariner, MY10, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0068	11	Escape /Tribute / Mariner, MY10, 3.0L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0151	11	Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0270	11	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0279	11	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)

P0603	11	Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P2291	11	Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P0114	10	Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0232	10	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0266	10	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0284	10	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0442	10	Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0481	10	Escape /Tribute / Mariner, MY10, 3.0L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0500	10	Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	10	Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0642	10	Escape /Tribute / Mariner, MY10, 3.0L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0976	10	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1335	10	Escape /Tribute / Mariner, MY10, 3.0L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1408	10	Escape /Tribute / Mariner, MY10, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1536	10	Escape /Tribute / Mariner, MY10, 3.0L	Parking Brake Switch Circuit		CCM VEHICLE
P2110	9	Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P0050	9	Escape /Tribute / Mariner, MY10, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0111	9	Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0264	9	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	9	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	9	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	9	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0325	9	Escape /Tribute / Mariner, MY10, 3.0L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0703	9	Escape /Tribute / Mariner, MY10, 3.0L	Brake Switch "B" Circuit		CCM VEHICLE
P0712	9	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0757	9	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0761	9	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0973	9	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P2290	9	Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P2617	9	Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
P060D	8	Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
P0030	8	Escape /Tribute / Mariner, MY10, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0106	8	Escape /Tribute / Mariner, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0261	8	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0276	8	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0472	8	Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0683	8	Escape /Tribute / Mariner, MY10, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P2614	8	Escape /Tribute / Mariner, MY10, 3.0L	Camshaft Position Output Circuit/Open		CCM MODULE
P2106	7	Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
B1342	7	Escape /Tribute / Mariner, MY10, 3.0L	ECU is Faulted	G	CCM MODULE
B1342	7	Escape /Tribute / Mariner, MY10, 3.0L	ECU Is Faulted	G	CCM MODULE
B1342	7	Escape /Tribute / Mariner, MY10, 3.0L	ECU is Faulted		CCM VEHICLE
P0191	7	Escape /Tribute / Mariner, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0269	7	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0470	7	Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0506	7	Escape /Tribute / Mariner, MY10, 3.0L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0678	7	Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0718	7	Escape /Tribute / Mariner, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit Intermittent	G+	CCM TRANS SENSOR
P0751	7	Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P07A5	7	Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO

P1211	7 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1290	7 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1316	7 Escape /Tribute / Mariner, MY10, 3.0L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1636	7 Escape /Tribute / Mariner, MY10, 3.0L	Inductive Signature Chip Communication Error	G*	CCM MODULE
B1601	6 Escape /Tribute / Mariner, MY10, 3.0L	Unprogrammed PATS Key		CCM VEHICLE
P0101	6 Escape /Tribute / Mariner, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0263	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0275	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0278	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0307	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0336	6 Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0405	6 Escape /Tribute / Mariner, MY10, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0670	6 Escape /Tribute / Mariner, MY10, 3.0L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0672	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0701	6 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P072E	6 Escape /Tribute / Mariner, MY10, 3.0L	Stuck in Gear 3		CCM TRANS RATIO
P1116	6 Escape /Tribute / Mariner, MY10, 3.0L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1184	6 Escape /Tribute / Mariner, MY10, 3.0L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1212	6 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1233	6 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1270	6 Escape /Tribute / Mariner, MY10, 3.0L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1272	6 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	6 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1293	6 Escape /Tribute / Mariner, MY10, 3.0L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1670	6 Escape /Tribute / Mariner, MY10, 3.0L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1A0D	6 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P2285	6 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P0221	5 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P2100	5 Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2105	5 Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P0053	5 Escape /Tribute / Mariner, MY10, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P013E	5 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0152	5 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0193	5 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0198	5 Escape /Tribute / Mariner, MY10, 3.0L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0272	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0281	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0643	5 Escape /Tribute / Mariner, MY10, 3.0L	Sensor Reference Voltage "A" Circuit High	G*	CCM MODULE
P064D	5 Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P0671	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0744	5 Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Intermittent	G*	CCM TRANS ACTUATOR
P0752	5 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P0980	5 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P0984	5 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1271	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1273	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1274	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)

P1276	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	5 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1294	5 Escape /Tribute / Mariner, MY10, 3.0L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1378	5 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1910	5 Escape /Tribute / Mariner, MY10, 3.0L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2269	5 Escape /Tribute / Mariner, MY10, 3.0L	Water in Fuel Condition		NO-FAULT CODES
P2783	5 Escape /Tribute / Mariner, MY10, 3.0L	Torque Converter Temperature Too High	G*	CCM TRANS TCC
P0121	4 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P115E	4 Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P0116	4 Escape /Tribute / Mariner, MY10, 3.0L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0131	4 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0132	4 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0234	4 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P040D	4 Escape /Tribute / Mariner, MY10, 3.0L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0475	4 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0478	4 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0562	4 Escape /Tribute / Mariner, MY10, 3.0L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0567	4 Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0676	4 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0700	4 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0766	4 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0769	4 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P1102	4 Escape /Tribute / Mariner, MY10, 3.0L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1119	4 Escape /Tribute / Mariner, MY10, 3.0L	Manifold Air Temperature Circuit High		CCM TEMP
P132B	4 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1690	4 Escape /Tribute / Mariner, MY10, 3.0L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P2097	4 Escape /Tribute / Mariner, MY10, 3.0L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P2139	4 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2263	4 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2705	4 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P060C	3 Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
B1600	3 Escape /Tribute / Mariner, MY10, 3.0L	No PATS Key Read by the PATS Control		CCM VEHICLE
B1602	3 Escape /Tribute / Mariner, MY10, 3.0L	Partial PATS Key was Read		CCM VEHICLE
P0046	3 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P008D	3 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Cooler Pump Control Circuit Low		FUEL (COMPONENT)
P0133	3 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P014A	3 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0183	3 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0190	3 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P0196	3 Escape /Tribute / Mariner, MY10, 3.0L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0230	3 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0231	3 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0358	3 Escape /Tribute / Mariner, MY10, 3.0L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0380	3 Escape /Tribute / Mariner, MY10, 3.0L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P0381	3 Escape /Tribute / Mariner, MY10, 3.0L	Glow Plug/Heater Indicator Control Circuit/Open		CCM GLOW PLUG
P0402	3 Escape /Tribute / Mariner, MY10, 3.0L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P0462	3 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0476	3 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P050B	3 Escape /Tribute / Mariner, MY10, 3.0L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)

P0529	3 Escape /Tribute / Mariner, MY10, 3.0L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P064E	3 Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 2)	G*	HO2S (COMPONENT)
P072C	3 Escape /Tribute / Mariner, MY10, 3.0L	Stuck in Gear 1		CCM TRANS RATIO
P0762	3 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0771	3 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P0963	3 Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0983	3 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P1137	3 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S12 Switches - Sensor Indicates Lean		HO2S (SYSTEM)
P115A	3 Escape /Tribute / Mariner, MY10, 3.0L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1209	3 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Peak Delta Test Fault		FUEL (COMPONENT)
P1246	3 Escape /Tribute / Mariner, MY10, 3.0L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1247	3 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1282	3 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1507	3 Escape /Tribute / Mariner, MY10, 3.0L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P163F	3 Escape /Tribute / Mariner, MY10, 3.0L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P1650	3 Escape /Tribute / Mariner, MY10, 3.0L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1A0C	3 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P1A10	3 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P246C	3 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2703	3 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0073	3 Escape /Tribute / Mariner, MY10, 3.0L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0101	3 Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication with TCM	G*	NETWORK COMM
U0129	3 Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Brake System Control Module	G	NETWORK COMM
U0422	3 Escape /Tribute / Mariner, MY10, 3.0L	Invalid Data Received from Body Control Module	G	NETWORK COMM
U210B	3 Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P060B	2 Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P0000	2 Escape /Tribute / Mariner, MY10, 3.0L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P006A	2 Escape /Tribute / Mariner, MY10, 3.0L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P0073	2 Escape /Tribute / Mariner, MY10, 3.0L	Ambient Air Temperature Sensor Circuit "A" High	G*	CCM TEMP
P0087	2 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P008C	2 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Cooler Pump Control Circuit/Open		FUEL (COMPONENT)
P00B7	2 Escape /Tribute / Mariner, MY10, 3.0L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0100	2 Escape /Tribute / Mariner, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0103	2 Escape /Tribute / Mariner, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0107	2 Escape /Tribute / Mariner, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0112	2 Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	CCM TEMP
P0237	2 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0308	2 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0487	2 Escape /Tribute / Mariner, MY10, 3.0L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0488	2 Escape /Tribute / Mariner, MY10, 3.0L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0503	2 Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G	CCM TRANS (NON-MIL)
P0541	2 Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0565	2 Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	2 Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control OFF Signal	G	CCM VEHICLE
P0568	2 Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	2 Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control COAST Signal	G	CCM VEHICLE
P0606	2 Escape /Tribute / Mariner, MY10, 3.0L	Control Module Processor	G*	CCM MODULE
P0622	2 Escape /Tribute / Mariner, MY10, 3.0L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P0640	2 Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Heater Control Circuit		CCM GLOW PLUG
P0673	2 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG

P0675	2 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0772	2 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0977	2 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P1111	2 Escape /Tribute / Mariner, MY10, 3.0L	System Pass		NO-FAULT CODES
P1131	2 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1132	2 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1148	2 Escape /Tribute / Mariner, MY10, 3.0L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1151	2 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1152	2 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1157	2 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S22 Switches - Sensor Indicates Lean		HO2S (SYSTEM)
P1158	2 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S22 Switches - Sensor Indicates Rich		HO2S (SYSTEM)
P1210	2 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Higher Than Desired (engine off)		FUEL (COMPONENT)
P1401	2 Escape /Tribute / Mariner, MY10, 3.0L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1405	2 Escape /Tribute / Mariner, MY10, 3.0L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1469	2 Escape /Tribute / Mariner, MY10, 3.0L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P179A	2 Escape /Tribute / Mariner, MY10, 3.0L	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction		BOOST CONTROL (COMPONENT)
P2002	2 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2033	2 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2084	2 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P2099	2 Escape /Tribute / Mariner, MY10, 3.0L	Post Catalyst Fuel Trim System Too Rich (Bank 2)	G*	HO2S (SYSTEM)
P20E3	2 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2131	2 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2132	2 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P2284	2 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2287	2 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2452	2 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2455	2 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit High		PM FILTER (COMPONENT)
P2463	2 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P252F	2 Escape /Tribute / Mariner, MY10, 3.0L	Engine Oil Level Too High		NO-FAULT CODES
P2610	2 Escape /Tribute / Mariner, MY10, 3.0L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2623	2 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
P0226	1 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance		ETC (COMPONENT)
P2072	1 Escape /Tribute / Mariner, MY10, 3.0L	Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
B1213	1 Escape /Tribute / Mariner, MY10, 3.0L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
B2103	1 Escape /Tribute / Mariner, MY10, 3.0L	Antenna Not Connected		CCM VEHICLE
P0003	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Volume Regulator Control Circuit Low	G*	FUEL (COMPONENT)
P0007	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Shutoff Valve "A" Control Circuit High		FUEL (COMPONENT)
P0069	1 Escape /Tribute / Mariner, MY10, 3.0L	MAP - Barometric Pressure Correlation		CCM MAF/MAP/BARO
P006B	1 Escape /Tribute / Mariner, MY10, 3.0L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P0088	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P008A	1 Escape /Tribute / Mariner, MY10, 3.0L	Low Pressure Fuel System Pressure - Too Low	G	FUEL (SYSTEM)
P0091	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pressure Regulator Control Circuit Low		FUEL (COMPONENT)
P0093	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel System Leak Detected - Large Leak	G	FUEL (SYSTEM)
P0098	1 Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Temperature Sensor 2 Circuit High (Bank 1)	G*	CCM TEMP
P0125	1 Escape /Tribute / Mariner, MY10, 3.0L	Insufficient Coolant Temp For Closed Loop Fuel Control	G*	ENGINE COOLING (SYSTEM)
P012F	1 Escape /Tribute / Mariner, MY10, 3.0L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0148	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0158	1 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0192	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit Low (Bank 1)	G*	FUEL (COMPONENT)
P0197	1 Escape /Tribute / Mariner, MY10, 3.0L	Engine Oil Temperature Sensor "A" Circuit Low	G*	CCM TEMP

P0207	1 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 7 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0262	1 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 1 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P026A	1 Escape /Tribute / Mariner, MY10, 3.0L	Charge Air Cooler Efficiency Below Threshold		BOOST CONTROL (SYSTEM)
P0271	1 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 4 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0283	1 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 8 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0315	1 Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft Position System Variation Not Learned	G*	MISFIRE (SYSTEM)
P0335	1 Escape /Tribute / Mariner, MY10, 3.0L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0410	1 Escape /Tribute / Mariner, MY10, 3.0L	AIR System	G*	SEC AIR (SYSTEM)
P0411	1 Escape /Tribute / Mariner, MY10, 3.0L	AIR System Incorrect Flow Detected	G*	SEC AIR (SYSTEM)
P042E	1 Escape /Tribute / Mariner, MY10, 3.0L	EGR "A" Control Stuck Open		EGR (COMPONENT)
P0452	1 Escape /Tribute / Mariner, MY10, 3.0L	EVAP System Pressure Sensor/Switch Low	G*	EVAP (COMPONENT)
P0461	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0491	1 Escape /Tribute / Mariner, MY10, 3.0L	AIR System Insufficient Flow (Bank 1)	G*	SEC AIR (SYSTEM)
P050E	1 Escape /Tribute / Mariner, MY10, 3.0L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0546	1 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 1)		EXH GAS SENSOR (SYSTEM)
P0560	1 Escape /Tribute / Mariner, MY10, 3.0L	System Voltage		CCM A/C, FAN, PS, GEN
P0578	1 Escape /Tribute / Mariner, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit Stuck	G	CCM VEHICLE
P0604	1 Escape /Tribute / Mariner, MY10, 3.0L	Internal Control Module Random Access Memory (RAM) Error	G*	CCM MODULE
P065B	1 Escape /Tribute / Mariner, MY10, 3.0L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0684	1 Escape /Tribute / Mariner, MY10, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P0691	1 Escape /Tribute / Mariner, MY10, 3.0L	Fan 1 Control Circuit Low	G	CCM A/C, FAN, PS, GEN
P0709	1 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Sensor "A" Circuit Intermittent	G*	CCM TRANS SENSOR
P0721	1 Escape /Tribute / Mariner, MY10, 3.0L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P0754	1 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Intermittent	G+	CCM TRANS ACTUATOR
P0764	1 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Intermittent	G+	CCM TRANS ACTUATOR
P0961	1 Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit Range/Performance	G+	CCM TRANS ACTUATOR
P0972	1 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Control Circuit Range/Performance		CCM TRANS RATIO
P0974	1 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0978	1 Escape /Tribute / Mariner, MY10, 3.0L	Shift Solenoid "C" Control Circuit Range/Performance		CCM TRANS RATIO
P0A02	1 Escape /Tribute / Mariner, MY10, 3.0L	Motor Electronics Coolant Temperature Sensor Circuit Low	G	HYBRID
P0A18	1 Escape /Tribute / Mariner, MY10, 3.0L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	1 Escape /Tribute / Mariner, MY10, 3.0L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P0A5B	1 Escape /Tribute / Mariner, MY10, 3.0L	Generator Current Sensor Circuit Low	G	CCM A/C, FAN, PS, GEN
P1100	1 Escape /Tribute / Mariner, MY10, 3.0L	Mass Air Flow Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P1105	1 Escape /Tribute / Mariner, MY10, 3.0L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P1106	1 Escape /Tribute / Mariner, MY10, 3.0L	Dual Alternator Lower Fault		CCM A/C, FAN, PS, GEN
P1138	1 Escape /Tribute / Mariner, MY10, 3.0L	Lack Of HO2S12 Switches - Sensor Indicates Rich		HO2S (SYSTEM)
P1139	1 Escape /Tribute / Mariner, MY10, 3.0L	Water in Fuel Indicator Circuit		CCM VEHICLE
P1140	1 Escape /Tribute / Mariner, MY10, 3.0L	Water in Fuel Condition		CCM VEHICLE
P1235	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1237	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1248	1 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1262	1 Escape /Tribute / Mariner, MY10, 3.0L	Cylinder 2 High To Low Side Short	G*	FUEL (COMPONENT)
P1281	1 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Sensor Circuit High		FUEL (COMPONENT)
P1283	1 Escape /Tribute / Mariner, MY10, 3.0L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1284	1 Escape /Tribute / Mariner, MY10, 3.0L	Aborted KOER - Injector Control Pressure Failure		FUEL (COMPONENT)
P1296	1 Escape /Tribute / Mariner, MY10, 3.0L	Injector Multiple Faults (Bank 2)		FUEL (COMPONENT)
P1500	1 Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1502	1 Escape /Tribute / Mariner, MY10, 3.0L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1512	1 Escape /Tribute / Mariner, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC

P1519	1 Escape /Tribute / Mariner, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1550	1 Escape /Tribute / Mariner, MY10, 3.0L	Power Steering Pressure Sensor Out Of Self Test Range	G	CCM A/C, FAN, PS, GEN
P1576	1 Escape /Tribute / Mariner, MY10, 3.0L	Pedal Position Not Available	G*	CCM THROTTLE/PEDAL
P161A	1 Escape /Tribute / Mariner, MY10, 3.0L	Incorrect Response from Immobilizer Control Module	G	CCM VEHICLE
P163A	1 Escape /Tribute / Mariner, MY10, 3.0L	Generator "B" Control Circuit		CCM A/C, FAN, PS, GEN
P164B	1 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 2 Sensor 1)	G	HO2S (COMPONENT)
P1700	1 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Indeterminate Failure (Failed to Neutral)	G*^	CCM TRANS SYSTEM
P1728	1 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Slip	G^	CCM TRANS RATIO
P1746	1 Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Open Circuit	G^	CCM TRANS ACTUATOR
P1747	1 Escape /Tribute / Mariner, MY10, 3.0L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P1754	1 Escape /Tribute / Mariner, MY10, 3.0L	Coast Clutch Solenoid Circuit	G^	CCM TRANS ACTUATOR
P1A0E	1 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Motor Disabled	G	HYBRID
P1A0F	1 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Vehicle Disabled	G	HYBRID
P1A13	1 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Regenerative Braking Disabled	G	HYBRID
P1A14	1 Escape /Tribute / Mariner, MY10, 3.0L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P2006	1 Escape /Tribute / Mariner, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P200E	1 Escape /Tribute / Mariner, MY10, 3.0L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P2031	1 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P204C	1 Escape /Tribute / Mariner, MY10, 3.0L	Reductant Pressure Sensor Circuit Low		NOX CATALYST (COMPONENT)
P2067	1 Escape /Tribute / Mariner, MY10, 3.0L	Fuel Level Sensor "B" Circuit Low	G*	CCM FUEL LEVEL
P2073	1 Escape /Tribute / Mariner, MY10, 3.0L	Manifold Absolute Pressure/Mass Air Flow - Throttle Position Correlation at Idle		CCM MAF/MAP/BARO
P20BC	1 Escape /Tribute / Mariner, MY10, 3.0L	Reductant Heater "A" Control Circuit High		NOX CATALYST (COMPONENT)
P20BD	1 Escape /Tribute / Mariner, MY10, 3.0L	Reductant Heater "B" Control Circuit/Open		NOX CATALYST (COMPONENT)
P20C0	1 Escape /Tribute / Mariner, MY10, 3.0L	Reductant Heater "B" Control Circuit High		NOX CATALYST (COMPONENT)
P20E4	1 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	1 Escape /Tribute / Mariner, MY10, 3.0L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2121	1 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2126	1 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2140	1 Escape /Tribute / Mariner, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2199	1 Escape /Tribute / Mariner, MY10, 3.0L	Intake Air Temperature 1 / 2 Correlation		CCM TEMP
P219B	1 Escape /Tribute / Mariner, MY10, 3.0L	Bank 2 Air-Fuel Ratio Imbalance	G*	FUEL (SYSTEM)
P2200	1 Escape /Tribute / Mariner, MY10, 3.0L	NOx Sensor Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2209	1 Escape /Tribute / Mariner, MY10, 3.0L	NOx Sensor Heater Sense Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2237	1 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Positive Current Control Circuit/Open (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P2262	1 Escape /Tribute / Mariner, MY10, 3.0L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2275	1 Escape /Tribute / Mariner, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 3)	G*	HO2S (SYSTEM)
P2286	1 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Sensor Circuit High		FUEL (COMPONENT)
P2289	1 Escape /Tribute / Mariner, MY10, 3.0L	Injector Control Pressure Too High - Engine Off		FUEL (COMPONENT)
P2299	1 Escape /Tribute / Mariner, MY10, 3.0L	Brake Pedal Position/Accelerator Pedal Position Incompatible		CCM THROTTLE/PEDAL
P242D	1 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 3)		EXH GAS SENSOR (SYSTEM)
P242F	1 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P244A	1 Escape /Tribute / Mariner, MY10, 3.0L	Particulate Filter Differential Pressure Too Low (Bank 1)		PM FILTER (SYSTEM)
P2471	1 Escape /Tribute / Mariner, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 4)		EXH GAS SENSOR (COMPONENT)
P249C	1 Escape /Tribute / Mariner, MY10, 3.0L	Excessive Time To Enter Closed Loop Reductant Injection Control		NOX CATALYST (SYSTEM)
P2532	1 Escape /Tribute / Mariner, MY10, 3.0L	Ignition Switch Run Position Circuit High	G	CCM VEHICLE
P2533	1 Escape /Tribute / Mariner, MY10, 3.0L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P2539	1 Escape /Tribute / Mariner, MY10, 3.0L	Low Pressure Fuel System Sensor Circuit		FUEL (COMPONENT)
P2600	1 Escape /Tribute / Mariner, MY10, 3.0L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2802	1 Escape /Tribute / Mariner, MY10, 3.0L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
U0104	1 Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Cruise Control Module	G	NETWORK COMM

U0111	1	Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
U0121	1	Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0151	1	Escape /Tribute / Mariner, MY10, 3.0L	Lost Communication With Restraints Control Module	G	NETWORK COMM
U0306	1	Escape /Tribute / Mariner, MY10, 3.0L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
U0418	1	Escape /Tribute / Mariner, MY10, 3.0L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
U1051	1	Escape /Tribute / Mariner, MY10, 3.0L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
P1602	1044	Escape /Tribute / Mariner, MY11, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0016	866	Escape /Tribute / Mariner, MY11, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P052A	814	Escape /Tribute / Mariner, MY11, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P144A	684	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1464	658	Escape /Tribute / Mariner, MY11, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0455	541	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0457	464	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P1260	354	Escape /Tribute / Mariner, MY11, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	354	Escape /Tribute / Mariner, MY11, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0456	268	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P0316	233	Escape /Tribute / Mariner, MY11, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1288	233	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P2196	231	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1285	228	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1299	211	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0102	200	Escape /Tribute / Mariner, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P1450	187	Escape /Tribute / Mariner, MY11, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P0446	156	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0171	154	Escape /Tribute / Mariner, MY11, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P1A10	144	Escape /Tribute / Mariner, MY11, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P0A7C	141	Escape /Tribute / Mariner, MY11, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P0113	137	Escape /Tribute / Mariner, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P2195	137	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1A14	120	Escape /Tribute / Mariner, MY11, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P0442	119	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P1703	118	Escape /Tribute / Mariner, MY11, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0300	116	Escape /Tribute / Mariner, MY11, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P1780	106	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P2111	96	Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0443	93	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P1A1B	90	Escape /Tribute / Mariner, MY11, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P0141	87	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P1289	83	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P0301	81	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P06B8	81	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0130	78	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0562	77	Escape /Tribute / Mariner, MY11, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P052B	75	Escape /Tribute / Mariner, MY11, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0010	72	Escape /Tribute / Mariner, MY11, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P1622	72	Escape /Tribute / Mariner, MY11, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0297	71	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P025A	70	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0302	69	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
U0418	67	Escape /Tribute / Mariner, MY11, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM

P0304	64	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P1A0C	63	Escape /Tribute / Mariner, MY11, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
U0109	61	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0104	59	Escape /Tribute / Mariner, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0122	54	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0135	53	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0303	53	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0223	52	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P1921	52	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Signal	G	NETWORK COMM
P2112	50	Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P0341	49	Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P2418	47	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P0451	45	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0011	44	Escape /Tribute / Mariner, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0012	44	Escape /Tribute / Mariner, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0403	44	Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0463	44	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0706	44	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0533	42	Escape /Tribute / Mariner, MY11, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P2627	42	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0054	41	Escape /Tribute / Mariner, MY11, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
U0129	41	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P0625	39	Escape /Tribute / Mariner, MY11, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0352	38	Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0707	38	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0420	35	Escape /Tribute / Mariner, MY11, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P2096	35	Escape /Tribute / Mariner, MY11, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P0620	34	Escape /Tribute / Mariner, MY11, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0340	33	Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P2701	33	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P1397	31	Escape /Tribute / Mariner, MY11, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1639	31	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0344	30	Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0128	29	Escape /Tribute / Mariner, MY11, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0351	29	Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0353	29	Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0581	29	Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P2450	28	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0068	27	Escape /Tribute / Mariner, MY11, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P260F	26	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0605	25	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0756	25	Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
U0111	25	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
U0155	25	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0400	24	Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P0690	24	Escape /Tribute / Mariner, MY11, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0733	24	Escape /Tribute / Mariner, MY11, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0354	23	Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P068A	23	Escape /Tribute / Mariner, MY11, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0735	23	Escape /Tribute / Mariner, MY11, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO

P0A7D	22	Escape /Tribute / Mariner, MY11, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
P2270	22	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
U0101	22	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P1702	21	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0505	20	Escape /Tribute / Mariner, MY11, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P0600	20	Escape /Tribute / Mariner, MY11, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P1101	19	Escape /Tribute / Mariner, MY11, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P1711	19	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0731	18	Escape /Tribute / Mariner, MY11, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0512	17	Escape /Tribute / Mariner, MY11, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0685	17	Escape /Tribute / Mariner, MY11, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0717	17	Escape /Tribute / Mariner, MY11, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P1705	17	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P2127	17	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
U0300	17	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P060A	16	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0722	16	Escape /Tribute / Mariner, MY11, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P1127	16	Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P0106	15	Escape /Tribute / Mariner, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0174	15	Escape /Tribute / Mariner, MY11, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0579	15	Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0715	15	Escape /Tribute / Mariner, MY11, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P1408	15	Escape /Tribute / Mariner, MY11, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P0201	14	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	14	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0453	14	Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0460	14	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0708	14	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0732	14	Escape /Tribute / Mariner, MY11, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0A08	14	Escape /Tribute / Mariner, MY11, 2.5L	DC/DC Converter Status Circuit/Open	G	HYBRID
P0A18	14	Escape /Tribute / Mariner, MY11, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	14	Escape /Tribute / Mariner, MY11, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P1783	14	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P2122	14	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0645	13	Escape /Tribute / Mariner, MY11, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P013A	12	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0116	11	Escape /Tribute / Mariner, MY11, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0202	11	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0528	11	Escape /Tribute / Mariner, MY11, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0768	11	Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P1290	11	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P2101	11	Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P2704	11	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2800	11	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
P0203	10	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0232	10	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0720	10	Escape /Tribute / Mariner, MY11, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0729	10	Escape /Tribute / Mariner, MY11, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0734	10	Escape /Tribute / Mariner, MY11, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P128A	10	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP

P2107	10	Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P2138	10	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2703	10	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0109	9	Escape /Tribute / Mariner, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0401	9	Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0607	9	Escape /Tribute / Mariner, MY11, 2.5L	Control Module Performance	G*	CCM MODULE
P0611	9	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P0627	9	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0710	9	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0A1F	9	Escape /Tribute / Mariner, MY11, 2.5L	Battery Energy Control Module	G	HYBRID
P2135	9	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0030	8	Escape /Tribute / Mariner, MY11, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0108	8	Escape /Tribute / Mariner, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0472	8	Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0480	8	Escape /Tribute / Mariner, MY11, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0741	8	Escape /Tribute / Mariner, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0773	8	Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P2104	8	Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2110	8	Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P0111	7	Escape /Tribute / Mariner, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0172	7	Escape /Tribute / Mariner, MY11, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0191	7	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0267	7	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	7	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0282	7	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0500	7	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	7	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P061B	7	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P061C	7	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0657	7	Escape /Tribute / Mariner, MY11, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0770	7	Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P1184	7	Escape /Tribute / Mariner, MY11, 2.5L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1233	7	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1633	7	Escape /Tribute / Mariner, MY11, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1744	7	Escape /Tribute / Mariner, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2802	7	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
B1601	6	Escape /Tribute / Mariner, MY11, 2.5L	Unprogrammed PATS Key		CCM VEHICLE
P0138	6	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0219	6	Escape /Tribute / Mariner, MY11, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P0261	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0264	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0272	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0273	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0276	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0305	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	6	Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0404	6	Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0405	6	Escape /Tribute / Mariner, MY11, 2.5L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0603	6	Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE

P0670	6 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0671	6 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0672	6 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	6 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	6 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	6 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0743	6 Escape /Tribute / Mariner, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0748	6 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0758	6 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0765	6 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0984	6 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1124	6 Escape /Tribute / Mariner, MY11, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P115E	6 Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P1536	6 Escape /Tribute / Mariner, MY11, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P2106	6 Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2197	6 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2269	6 Escape /Tribute / Mariner, MY11, 2.5L	Water in Fuel Condition		NO-FAULT CODES
P2291	6 Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2452	6 Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P0121	5 Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P025B	5 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0284	5 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0299	5 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0325	5 Escape /Tribute / Mariner, MY11, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0470	5 Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0504	5 Escape /Tribute / Mariner, MY11, 2.5L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P050E	5 Escape /Tribute / Mariner, MY11, 2.5L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0532	5 Escape /Tribute / Mariner, MY11, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0674	5 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0689	5 Escape /Tribute / Mariner, MY11, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0701	5 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0713	5 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0C2F	5 Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P1102	5 Escape /Tribute / Mariner, MY11, 2.5L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1116	5 Escape /Tribute / Mariner, MY11, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P115A	5 Escape /Tribute / Mariner, MY11, 2.5L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P132B	5 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P2128	5 Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2198	5 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2285	5 Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2614	5 Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P2617	5 Escape /Tribute / Mariner, MY11, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2705	5 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2801	5 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
P0132	4 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0193	4 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0230	4 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0231	4 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0269	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0275	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)

P0278	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0308	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0461	4 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0462	4 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P060C	4 Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P0626	4 Escape /Tribute / Mariner, MY11, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P065B	4 Escape /Tribute / Mariner, MY11, 2.5L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0673	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	4 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0703	4 Escape /Tribute / Mariner, MY11, 2.5L	Brake Switch "B" Circuit		CCM VEHICLE
P0753	4 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0757	4 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0766	4 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0767	4 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0982	4 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0A00	4 Escape /Tribute / Mariner, MY11, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P163F	4 Escape /Tribute / Mariner, MY11, 2.5L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P1709	4 Escape /Tribute / Mariner, MY11, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P2100	4 Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2263	4 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2272	4 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2463	4 Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	4 Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2700	4 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
B1342	3 Escape /Tribute / Mariner, MY11, 2.5L	ECU is Faulted	G	CCM MODULE
B1342	3 Escape /Tribute / Mariner, MY11, 2.5L	ECU Is Faulted	G	CCM MODULE
B1342	3 Escape /Tribute / Mariner, MY11, 2.5L	ECU is Faulted		CCM VEHICLE
B1600	3 Escape /Tribute / Mariner, MY11, 2.5L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0000	3 Escape /Tribute / Mariner, MY11, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0046	3 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0053	3 Escape /Tribute / Mariner, MY11, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0155	3 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0175	3 Escape /Tribute / Mariner, MY11, 2.5L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0183	3 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0198	3 Escape /Tribute / Mariner, MY11, 2.5L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0222	3 Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0263	3 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0266	3 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0336	3 Escape /Tribute / Mariner, MY11, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0430	3 Escape /Tribute / Mariner, MY11, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0452	3 Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Pressure Sensor/Switch Low	G*	EVAP (COMPONENT)
P0506	3 Escape /Tribute / Mariner, MY11, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0529	3 Escape /Tribute / Mariner, MY11, 2.5L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P0563	3 Escape /Tribute / Mariner, MY11, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0642	3 Escape /Tribute / Mariner, MY11, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0740	3 Escape /Tribute / Mariner, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0745	3 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0751	3 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0755	3 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR

P0763	3 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0772	3 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0962	3 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0983	3 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A03	3 Escape /Tribute / Mariner, MY11, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P1247	3 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1316	3 Escape /Tribute / Mariner, MY11, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1336	3 Escape /Tribute / Mariner, MY11, 2.5L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1401	3 Escape /Tribute / Mariner, MY11, 2.5L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1572	3 Escape /Tribute / Mariner, MY11, 2.5L	Brake Pedal Switch Circuit	G	CCM VEHICLE
P1575	3 Escape /Tribute / Mariner, MY11, 2.5L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P1635	3 Escape /Tribute / Mariner, MY11, 2.5L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P164A	3 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P1650	3 Escape /Tribute / Mariner, MY11, 2.5L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1670	3 Escape /Tribute / Mariner, MY11, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P2097	3 Escape /Tribute / Mariner, MY11, 2.5L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P2105	3 Escape /Tribute / Mariner, MY11, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2123	3 Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2271	3 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2284	3 Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2290	3 Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P2533	3 Escape /Tribute / Mariner, MY11, 2.5L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P2600	3 Escape /Tribute / Mariner, MY11, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2702	3 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2806	3 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor Alignment	G	CCM TRANS SENSOR
U0105	3 Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
B1213	2 Escape /Tribute / Mariner, MY11, 2.5L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
P0022	2 Escape /Tribute / Mariner, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P006A	2 Escape /Tribute / Mariner, MY11, 2.5L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P00B7	2 Escape /Tribute / Mariner, MY11, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0101	2 Escape /Tribute / Mariner, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0107	2 Escape /Tribute / Mariner, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0131	2 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0133	2 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0136	2 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0150	2 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0221	2 Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0268	2 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0281	2 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0307	2 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0320	2 Escape /Tribute / Mariner, MY11, 2.5L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0335	2 Escape /Tribute / Mariner, MY11, 2.5L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0345	2 Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0346	2 Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0349	2 Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0380	2 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P0381	2 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug/Heater Indicator Control Circuit/Open		CCM GLOW PLUG
P0402	2 Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P042F	2 Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0475	2 Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)

P0482	2 Escape /Tribute / Mariner, MY11, 2.5L	Fan 3 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0503	2 Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G	CCM TRANS (NON-MIL)
P0541	2 Escape /Tribute / Mariner, MY11, 2.5L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0567	2 Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	2 Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	2 Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P0572	2 Escape /Tribute / Mariner, MY11, 2.5L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P064D	2 Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P0700	2 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0705	2 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0750	2 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0760	2 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0761	2 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0769	2 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P0771	2 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P0774	2 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P07AA	2 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0963	2 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A10	2 Escape /Tribute / Mariner, MY11, 2.5L	DC/DC Converter Status Circuit High	G	HYBRID
P0A11	2 Escape /Tribute / Mariner, MY11, 2.5L	DC/DC Converter Enable Circuit/Open	G	HYBRID
P1131	2 Escape /Tribute / Mariner, MY11, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1132	2 Escape /Tribute / Mariner, MY11, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1151	2 Escape /Tribute / Mariner, MY11, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1152	2 Escape /Tribute / Mariner, MY11, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1212	2 Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1246	2 Escape /Tribute / Mariner, MY11, 2.5L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1248	2 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1270	2 Escape /Tribute / Mariner, MY11, 2.5L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1271	2 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	2 Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1335	2 Escape /Tribute / Mariner, MY11, 2.5L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1378	2 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1395	2 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug Monitor Fault (Bank 1)		CCM GLOW PLUG
P1409	2 Escape /Tribute / Mariner, MY11, 2.5L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P1646	2 Escape /Tribute / Mariner, MY11, 2.5L	Linear O2 Sensor Control Chip (Bank 1)	G	HO2S (COMPONENT)
P2002	2 Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2006	2 Escape /Tribute / Mariner, MY11, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P200E	2 Escape /Tribute / Mariner, MY11, 2.5L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P2098	2 Escape /Tribute / Mariner, MY11, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P20E2	2 Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E3	2 Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P242F	2 Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P2453	2 Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P2531	2 Escape /Tribute / Mariner, MY11, 2.5L	Ignition Switch Run Position Circuit Low	G	CCM VEHICLE
P2535	2 Escape /Tribute / Mariner, MY11, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
P2783	2 Escape /Tribute / Mariner, MY11, 2.5L	Torque Converter Temperature Too High	G*	CCM TRANS TCC
P2803	2 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Range Sensor "B" Circuit High	G	CCM TRANS SENSOR
P2A00	2 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit Range/Performance (Bank 1 Sensor 1)		HO2S (COMPONENT)
U0073	2 Escape /Tribute / Mariner, MY11, 2.5L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0306	2 Escape /Tribute / Mariner, MY11, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE

U0422	2 Escape /Tribute / Mariner, MY11, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
B1602	1 Escape /Tribute / Mariner, MY11, 2.5L	Partial PATS Key was Read		CCM VEHICLE
B2103	1 Escape /Tribute / Mariner, MY11, 2.5L	Antenna Not Connected		CCM VEHICLE
P0001	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0003	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Volume Regulator Control Circuit Low	G*	FUEL (COMPONENT)
P007D	1 Escape /Tribute / Mariner, MY11, 2.5L	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)	G*	BOOST CONTROL (COMPONENT)
P0087	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0090	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pressure Regulator Control Circuit/Open		FUEL (COMPONENT)
P0091	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pressure Regulator Control Circuit Low		FUEL (COMPONENT)
P0096	1 Escape /Tribute / Mariner, MY11, 2.5L	Intake Air Temperature Sensor 2 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P00C6	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Rail Pressure Too Low - Engine Cranking (Bank 1)	G	FUEL (SYSTEM)
P0100	1 Escape /Tribute / Mariner, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0112	1 Escape /Tribute / Mariner, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	CCM TEMP
P0117	1 Escape /Tribute / Mariner, MY11, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Low	G*	CCM TEMP
P0123	1 Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0125	1 Escape /Tribute / Mariner, MY11, 2.5L	Insufficient Coolant Temp For Closed Loop Fuel Control	G*	ENGINE COOLING (SYSTEM)
P012F	1 Escape /Tribute / Mariner, MY11, 2.5L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0148	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0149	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Timing Error		FUEL (SYSTEM)
P0152	1 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0153	1 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0161	1 Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0180	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Temperature Sensor "A" Circuit	G*	FUEL (COMPONENT)
P0190	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P0205	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0206	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0207	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 7 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0208	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0234	1 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0236	1 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Range/Performance	G*	BOOST CONTROL (COMPONENT)
P0237	1 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0238	1 Escape /Tribute / Mariner, MY11, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit High	G*	BOOST CONTROL (COMPONENT)
P0265	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 2 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P026A	1 Escape /Tribute / Mariner, MY11, 2.5L	Charge Air Cooler Efficiency Below Threshold		BOOST CONTROL (SYSTEM)
P0271	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 4 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0274	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0277	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 6 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0283	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0355	1 Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0356	1 Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0357	1 Escape /Tribute / Mariner, MY11, 2.5L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0406	1 Escape /Tribute / Mariner, MY11, 2.5L	EGR Sensor "A" Circuit High	G*	EGR (COMPONENT)
P040D	1 Escape /Tribute / Mariner, MY11, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0410	1 Escape /Tribute / Mariner, MY11, 2.5L	AIR System	G*	SEC AIR (SYSTEM)
P042E	1 Escape /Tribute / Mariner, MY11, 2.5L	EGR "A" Control Stuck Open		EGR (COMPONENT)
P0478	1 Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0481	1 Escape /Tribute / Mariner, MY11, 2.5L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0487	1 Escape /Tribute / Mariner, MY11, 2.5L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0488	1 Escape /Tribute / Mariner, MY11, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0491	1 Escape /Tribute / Mariner, MY11, 2.5L	AIR System Insufficient Flow (Bank 1)	G*	SEC AIR (SYSTEM)

P050B	1 Escape /Tribute / Mariner, MY11, 2.5L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0538	1 Escape /Tribute / Mariner, MY11, 2.5L	A/C Evaporator Temperature Sensor Circuit High	G	CCM A/C, FAN, PS, GEN
P0565	1 Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	1 Escape /Tribute / Mariner, MY11, 2.5L	Cruise Control OFF Signal	G	CCM VEHICLE
P0573	1 Escape /Tribute / Mariner, MY11, 2.5L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0602	1 Escape /Tribute / Mariner, MY11, 2.5L	Powertrain Control Module Programming Error	G*	CCM MODULE
P060B	1 Escape /Tribute / Mariner, MY11, 2.5L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P0622	1 Escape /Tribute / Mariner, MY11, 2.5L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P0711	1 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit Range/Performance	G*^	CCM TRANS SENSOR
P0712	1 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0744	1 Escape /Tribute / Mariner, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Intermittent	G*	CCM TRANS ACTUATOR
P0752	1 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P0762	1 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0775	1 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid B	G*	CCM TRANS ACTUATOR
P0781	1 Escape /Tribute / Mariner, MY11, 2.5L	1-2 Shift	G^	CCM TRANS RATIO
P0795	1 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid "C"	G*	CCM TRANS ACTUATOR
P07A9	1 Escape /Tribute / Mariner, MY11, 2.5L	Transmission Friction Element "D" Stuck On	G+	CCM TRANS RATIO
P0960	1 Escape /Tribute / Mariner, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0973	1 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0974	1 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0977	1 Escape /Tribute / Mariner, MY11, 2.5L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A02	1 Escape /Tribute / Mariner, MY11, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit Low	G	HYBRID
P0A05	1 Escape /Tribute / Mariner, MY11, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P0A09	1 Escape /Tribute / Mariner, MY11, 2.5L	DC/DC Converter Status Circuit Low	G	HYBRID
P1100	1 Escape /Tribute / Mariner, MY11, 2.5L	Mass Air Flow Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P1105	1 Escape /Tribute / Mariner, MY11, 2.5L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P1119	1 Escape /Tribute / Mariner, MY11, 2.5L	Manifold Air Temperature Circuit High		CCM TEMP
P1120	1 Escape /Tribute / Mariner, MY11, 2.5L	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	ETC (COMPONENT)
P1138	1 Escape /Tribute / Mariner, MY11, 2.5L	Lack Of HO2S12 Switches - Sensor Indicates Rich		HO2S (SYSTEM)
P1158	1 Escape /Tribute / Mariner, MY11, 2.5L	Lack Of HO2S22 Switches - Sensor Indicates Rich		HO2S (SYSTEM)
P117B	1 Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Gas Temperature Sensor Correlation (Bank 1)		EXH GAS SENSOR (SYSTEM)
P1235	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1237	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1249	1 Escape /Tribute / Mariner, MY11, 2.5L	Wastegate Control Valve "A" Performance		BOOST CONTROL (SYSTEM)
P1273	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	1 Escape /Tribute / Mariner, MY11, 2.5L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1283	1 Escape /Tribute / Mariner, MY11, 2.5L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1291	1 Escape /Tribute / Mariner, MY11, 2.5L	Injector High Side Short To GND Or VBATT (Bank 1)		FUEL (COMPONENT)
P1294	1 Escape /Tribute / Mariner, MY11, 2.5L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1298	1 Escape /Tribute / Mariner, MY11, 2.5L	Injector Driver Module Failure		FUEL (COMPONENT)
P1379	1 Escape /Tribute / Mariner, MY11, 2.5L	Fuel Injector Control Module System Voltage High		FUEL (COMPONENT)
P1380	1 Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Actuator Circuit (Bank 1)	G*	VVT (COMPONENT)
P1381	1 Escape /Tribute / Mariner, MY11, 2.5L	Camshaft Position Timing Over Advanced (Bank 1)	G*	VVT (SYSTEM)
P1391	1 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug Circuit Low (Bank 1)		CCM GLOW PLUG
P1393	1 Escape /Tribute / Mariner, MY11, 2.5L	Glow Plug Circuit Low (Bank 2)		CCM GLOW PLUG
P1405	1 Escape /Tribute / Mariner, MY11, 2.5L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1443	1 Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Control Valve (low/no flow)	G*	MONITOR - EVAP (SYSTEM)
P1451	1 Escape /Tribute / Mariner, MY11, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)

P1459	1	Escape /Tribute / Mariner, MY11, 2.5L	A/C Recirculation Switch Out of Self Test Range		CCM A/C, FAN, PS, GEN
P1469	1	Escape /Tribute / Mariner, MY11, 2.5L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1500	1	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1501	1	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1502	1	Escape /Tribute / Mariner, MY11, 2.5L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1506	1	Escape /Tribute / Mariner, MY11, 2.5L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1507	1	Escape /Tribute / Mariner, MY11, 2.5L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P1519	1	Escape /Tribute / Mariner, MY11, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1550	1	Escape /Tribute / Mariner, MY11, 2.5L	Power Steering Pressure Sensor Out Of Self Test Range	G	CCM A/C, FAN, PS, GEN
P1565	1	Escape /Tribute / Mariner, MY11, 2.5L	Speed Control Command Switch Out Of Range High	G	CCM VEHICLE
P1636	1	Escape /Tribute / Mariner, MY11, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P163C	1	Escape /Tribute / Mariner, MY11, 2.5L	Generator "B" Field Terminal Circuit Low		CCM A/C, FAN, PS, GEN
P1668	1	Escape /Tribute / Mariner, MY11, 2.5L	PCM/IDM Communications Error		CCM CKP/CMP/IGNITION
P1674	1	Escape /Tribute / Mariner, MY11, 2.5L	Control Module Software Corrupted	G*+	ETC (SYSTEM)
P1690	1	Escape /Tribute / Mariner, MY11, 2.5L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P1718	1	Escape /Tribute / Mariner, MY11, 2.5L	Transmission Fluid Temperature Sensor In Range Failure (> 250 deg F)	G^	CCM TRANS SENSOR
P179A	1	Escape /Tribute / Mariner, MY11, 2.5L	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction		BOOST CONTROL (COMPONENT)
P193C	1	Escape /Tribute / Mariner, MY11, 2.5L	Steering Wheel Angle Signal	G	NETWORK COMM
P1A0D	1	Escape /Tribute / Mariner, MY11, 2.5L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P1A0F	1	Escape /Tribute / Mariner, MY11, 2.5L	Hybrid Powertrain Control Module - Vehicle Disabled	G	HYBRID
P200C	1	Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P2043	1	Escape /Tribute / Mariner, MY11, 2.5L	Reductant Temperature Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P204F	1	Escape /Tribute / Mariner, MY11, 2.5L	Reductant System Performance (Bank 1)		NOX CATALYST (COMPONENT)
P2067	1	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Level Sensor "B" Circuit Low	G*	CCM FUEL LEVEL
P2080	1	Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2121	1	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2126	1	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2131	1	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2132	1	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P2140	1	Escape /Tribute / Mariner, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2187	1	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Control System "A" Too Lean at Idle (Bank 1)		FUEL (SYSTEM)
P2275	1	Escape /Tribute / Mariner, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 3)	G*	HO2S (SYSTEM)
P2287	1	Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2288	1	Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Too High		FUEL (COMPONENT)
P228F	1	Escape /Tribute / Mariner, MY11, 2.5L	Fuel Pressure Regulator 1 Exceeded Learning Limits - Too High		FUEL (SYSTEM)
P242D	1	Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 3)		EXH GAS SENSOR (SYSTEM)
P242E	1	Escape /Tribute / Mariner, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P244A	1	Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Differential Pressure Too Low (Bank 1)		PM FILTER (SYSTEM)
P2455	1	Escape /Tribute / Mariner, MY11, 2.5L	Particulate Filter Pressure Sensor "A" Circuit High		PM FILTER (COMPONENT)
P2457	1	Escape /Tribute / Mariner, MY11, 2.5L	EGR Cooler "A" Efficiency Below Threshold		EGR (SYSTEM)
P249C	1	Escape /Tribute / Mariner, MY11, 2.5L	Excessive Time To Enter Closed Loop Reductant Injection Control		NOX CATALYST (SYSTEM)
P24A5	1	Escape /Tribute / Mariner, MY11, 2.5L	EGR Cooler Bypass Control Stuck (Bank 1)		EGR (COMPONENT)
P2610	1	Escape /Tribute / Mariner, MY11, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2623	1	Escape /Tribute / Mariner, MY11, 2.5L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
U0121	1	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0151	1	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Restraints Control Module	G	NETWORK COMM
U0212	1	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication With Steering Column Control Module	G	NETWORK COMM
U1051	1	Escape /Tribute / Mariner, MY11, 2.5L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
U210B	1	Escape /Tribute / Mariner, MY11, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P1602	1098	Escape /Tribute / Mariner, MY11, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM

P0456	920	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1464	715	Escape /Tribute / Mariner, MY11, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1260	564	Escape /Tribute / Mariner, MY11, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	564	Escape /Tribute / Mariner, MY11, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P2111	554	Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0316	352	Escape /Tribute / Mariner, MY11, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P2112	331	Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P0455	237	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0457	205	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P0122	170	Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	168	Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P2198	159	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2196	158	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0446	157	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1288	140	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0102	116	Escape /Tribute / Mariner, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0297	114	Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0300	98	Escape /Tribute / Mariner, MY11, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P2197	95	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P1450	93	Escape /Tribute / Mariner, MY11, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P2195	93	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1780	89	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P144A	88	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1285	87	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1703	85	Escape /Tribute / Mariner, MY11, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0175	82	Escape /Tribute / Mariner, MY11, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P1921	80	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Signal	G	NETWORK COMM
P1622	79	Escape /Tribute / Mariner, MY11, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0155	78	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0304	78	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P025A	77	Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P1299	76	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0172	74	Escape /Tribute / Mariner, MY11, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0113	71	Escape /Tribute / Mariner, MY11, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0174	69	Escape /Tribute / Mariner, MY11, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0171	67	Escape /Tribute / Mariner, MY11, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P013C	66	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0706	66	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
U0109	66	Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P2101	66	Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0303	64	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0341	63	Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0301	62	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	62	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0707	62	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0022	61	Escape /Tribute / Mariner, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0463	61	Escape /Tribute / Mariner, MY11, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0302	60	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0443	59	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0012	58	Escape /Tribute / Mariner, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)

P013A	57	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0305	56	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0346	55	Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P2630	55	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0135	53	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0161	53	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0685	52	Escape /Tribute / Mariner, MY11, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P2627	51	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0141	48	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P06B8	46	Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0020	45	Escape /Tribute / Mariner, MY11, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0403	45	Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P1124	44	Escape /Tribute / Mariner, MY11, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0104	43	Escape /Tribute / Mariner, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0505	41	Escape /Tribute / Mariner, MY11, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P1639	41	Escape /Tribute / Mariner, MY11, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0340	39	Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0533	38	Escape /Tribute / Mariner, MY11, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P1702	38	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0010	37	Escape /Tribute / Mariner, MY11, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0344	35	Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P1127	35	Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1397	32	Escape /Tribute / Mariner, MY11, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0420	31	Escape /Tribute / Mariner, MY11, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0345	29	Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0625	29	Escape /Tribute / Mariner, MY11, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0627	28	Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P1289	28	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P2272	27	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0349	26	Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0581	26	Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0731	26	Escape /Tribute / Mariner, MY11, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0690	25	Escape /Tribute / Mariner, MY11, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0060	23	Escape /Tribute / Mariner, MY11, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0620	23	Escape /Tribute / Mariner, MY11, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P1101	23	Escape /Tribute / Mariner, MY11, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P1705	23	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P260F	23	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P2701	23	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0430	20	Escape /Tribute / Mariner, MY11, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0735	19	Escape /Tribute / Mariner, MY11, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0768	19	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P2127	19	Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0748	18	Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P1783	18	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0108	17	Escape /Tribute / Mariner, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0708	17	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0765	17	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P2122	17	Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0356	16	Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION

P0451	16	Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0512	16	Escape /Tribute / Mariner, MY11, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P0710	16	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0773	16	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P2098	16	Escape /Tribute / Mariner, MY11, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P0054	15	Escape /Tribute / Mariner, MY11, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0128	15	Escape /Tribute / Mariner, MY11, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0713	15	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0770	15	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0153	14	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0219	14	Escape /Tribute / Mariner, MY11, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0354	14	Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0645	14	Escape /Tribute / Mariner, MY11, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P1489	14	Escape /Tribute / Mariner, MY11, 3.0L	PCV Heater Control Circuit	G	PCV
P1711	14	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0605	13	Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0722	13	Escape /Tribute / Mariner, MY11, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0600	13	Escape /Tribute / Mariner, MY11, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P060A	13	Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0150	12	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0401	12	Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0657	12	Escape /Tribute / Mariner, MY11, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0729	12	Escape /Tribute / Mariner, MY11, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0732	12	Escape /Tribute / Mariner, MY11, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0330	11	Escape /Tribute / Mariner, MY11, 3.0L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0355	11	Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0504	11	Escape /Tribute / Mariner, MY11, 3.0L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P0532	11	Escape /Tribute / Mariner, MY11, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0743	11	Escape /Tribute / Mariner, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0753	11	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0758	11	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P2138	11	Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2270	11	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
U0300	11	Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P068A	10	Escape /Tribute / Mariner, MY11, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0733	10	Escape /Tribute / Mariner, MY11, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0740	10	Escape /Tribute / Mariner, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0750	10	Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0960	10	Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P2704	10	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P061B	10	Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0109	9	Escape /Tribute / Mariner, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0351	9	Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0579	9	Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0717	9	Escape /Tribute / Mariner, MY11, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0720	9	Escape /Tribute / Mariner, MY11, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P2107	9	Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P0284	8	Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0480	8	Escape /Tribute / Mariner, MY11, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0715	8	Escape /Tribute / Mariner, MY11, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR

P0741	8 Escape /Tribute / Mariner, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0763	8 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P2096	8 Escape /Tribute / Mariner, MY11, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2271	8 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2291	8 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2617	8 Escape /Tribute / Mariner, MY11, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
U0155	8 Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P2104	8 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2110	8 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P0018	7 Escape /Tribute / Mariner, MY11, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0021	7 Escape /Tribute / Mariner, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0130	7 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P025B	7 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0267	7 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	7 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0276	7 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	7 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0611	7 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P0755	7 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0756	7 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0757	7 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0760	7 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0962	7 Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1635	7 Escape /Tribute / Mariner, MY11, 3.0L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P2273	7 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0050	6 Escape /Tribute / Mariner, MY11, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0158	6 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0202	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0205	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0261	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	6 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0453	6 Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0607	6 Escape /Tribute / Mariner, MY11, 3.0L	Control Module Performance	G*	CCM MODULE
P0767	6 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P1233	6 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1744	6 Escape /Tribute / Mariner, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P0222	6 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P2703	6 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2106	6 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P0221	5 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P060D	5 Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
B1342	5 Escape /Tribute / Mariner, MY11, 3.0L	ECU is Faulted	G	CCM MODULE
B1342	5 Escape /Tribute / Mariner, MY11, 3.0L	ECU Is Faulted	G	CCM MODULE
B1342	5 Escape /Tribute / Mariner, MY11, 3.0L	ECU is Faulted		CCM VEHICLE
B1601	5 Escape /Tribute / Mariner, MY11, 3.0L	Unprogrammed PATS Key		CCM VEHICLE
P0011	5 Escape /Tribute / Mariner, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0059	5 Escape /Tribute / Mariner, MY11, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)

P0206	5 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P2100	5 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P0264	5 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0266	5 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0272	5 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0275	5 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0325	5 Escape /Tribute / Mariner, MY11, 3.0L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0353	5 Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0404	5 Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0405	5 Escape /Tribute / Mariner, MY11, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0460	5 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0528	5 Escape /Tribute / Mariner, MY11, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P2105	5 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P0734	5 Escape /Tribute / Mariner, MY11, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0982	5 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P115A	5 Escape /Tribute / Mariner, MY11, 3.0L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1247	5 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P132B	5 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1536	5 Escape /Tribute / Mariner, MY11, 3.0L	Parking Brake Switch Circuit		CCM VEHICLE
P2269	5 Escape /Tribute / Mariner, MY11, 3.0L	Water in Fuel Condition		NO-FAULT CODES
P2705	5 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2135	4 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0106	4 Escape /Tribute / Mariner, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0191	4 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0201	4 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	4 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0263	4 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0269	4 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0400	4 Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0442	4 Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0472	4 Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0500	4 Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	4 Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0569	4 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control COAST Signal	G	CCM VEHICLE
P0603	4 Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0683	4 Escape /Tribute / Mariner, MY11, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0689	4 Escape /Tribute / Mariner, MY11, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P07AA	4 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0977	4 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P1184	4 Escape /Tribute / Mariner, MY11, 3.0L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1316	4 Escape /Tribute / Mariner, MY11, 3.0L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1335	4 Escape /Tribute / Mariner, MY11, 3.0L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1336	4 Escape /Tribute / Mariner, MY11, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P163F	4 Escape /Tribute / Mariner, MY11, 3.0L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P2097	4 Escape /Tribute / Mariner, MY11, 3.0L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P0016	3 Escape /Tribute / Mariner, MY11, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0053	3 Escape /Tribute / Mariner, MY11, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0068	3 Escape /Tribute / Mariner, MY11, 3.0L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0088	3 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0103	3 Escape /Tribute / Mariner, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO

P0114	3 Escape /Tribute / Mariner, MY11, 3.0L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0152	3 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0183	3 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0232	3 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0278	3 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0281	3 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0307	3 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0308	3 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0352	3 Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0462	3 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0506	3 Escape /Tribute / Mariner, MY11, 3.0L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P050B	3 Escape /Tribute / Mariner, MY11, 3.0L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0562	3 Escape /Tribute / Mariner, MY11, 3.0L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0565	3 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	3 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	3 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	3 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control SET Signal	G	CCM VEHICLE
P0572	3 Escape /Tribute / Mariner, MY11, 3.0L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0573	3 Escape /Tribute / Mariner, MY11, 3.0L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0626	3 Escape /Tribute / Mariner, MY11, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P1102	3 Escape /Tribute / Mariner, MY11, 3.0L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P128A	3 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1293	3 Escape /Tribute / Mariner, MY11, 3.0L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1294	3 Escape /Tribute / Mariner, MY11, 3.0L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1383	3 Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Timing Over Retarded (Bank 1)	G*	VVT (SYSTEM)
P1910	3 Escape /Tribute / Mariner, MY11, 3.0L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2002	3 Escape /Tribute / Mariner, MY11, 3.0L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2006	3 Escape /Tribute / Mariner, MY11, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P2263	3 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2285	3 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2287	3 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2463	3 Escape /Tribute / Mariner, MY11, 3.0L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P2614	3 Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Output Circuit/Open		CCM MODULE
P2702	3 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0101	3 Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication with TCM	G*	NETWORK COMM
U0129	3 Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P0123	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P115E	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
B1600	2 Escape /Tribute / Mariner, MY11, 3.0L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0000	2 Escape /Tribute / Mariner, MY11, 3.0L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0030	2 Escape /Tribute / Mariner, MY11, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P006A	2 Escape /Tribute / Mariner, MY11, 3.0L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P006B	2 Escape /Tribute / Mariner, MY11, 3.0L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P0107	2 Escape /Tribute / Mariner, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0111	2 Escape /Tribute / Mariner, MY11, 3.0L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0125	2 Escape /Tribute / Mariner, MY11, 3.0L	Insufficient Coolant Temp For Closed Loop Fuel Control	G*	ENGINE COOLING (SYSTEM)
P0133	2 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0138	2 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0148	2 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P014A	2 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)

P0190	2 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P0193	2 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0198	2 Escape /Tribute / Mariner, MY11, 3.0L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0234	2 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0237	2 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0336	2 Escape /Tribute / Mariner, MY11, 3.0L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0406	2 Escape /Tribute / Mariner, MY11, 3.0L	EGR Sensor "A" Circuit High	G*	EGR (COMPONENT)
P040D	2 Escape /Tribute / Mariner, MY11, 3.0L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P042E	2 Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Control Stuck Open		EGR (COMPONENT)
P0470	2 Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0563	2 Escape /Tribute / Mariner, MY11, 3.0L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0578	2 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit Stuck	G	CCM VEHICLE
P0674	2 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	2 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0700	2 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0752	2 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P0761	2 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0766	2 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0774	2 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P07A9	2 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "D" Stuck On	G+	CCM TRANS RATIO
P0984	2 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1116	2 Escape /Tribute / Mariner, MY11, 3.0L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1211	2 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1275	2 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	2 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	2 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1290	2 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1298	2 Escape /Tribute / Mariner, MY11, 3.0L	Injector Driver Module Failure		FUEL (COMPONENT)
P1309	2 Escape /Tribute / Mariner, MY11, 3.0L	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*	CCM CKP/CMP/IGNITION
P1405	2 Escape /Tribute / Mariner, MY11, 3.0L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1408	2 Escape /Tribute / Mariner, MY11, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1500	2 Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1501	2 Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1633	2 Escape /Tribute / Mariner, MY11, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1636	2 Escape /Tribute / Mariner, MY11, 3.0L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P164A	2 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P200C	2 Escape /Tribute / Mariner, MY11, 3.0L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P200E	2 Escape /Tribute / Mariner, MY11, 3.0L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P2123	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2128	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2131	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2132	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P2139	2 Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2262	2 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2286	2 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Sensor Circuit High		FUEL (COMPONENT)
P2290	2 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P246C	2 Escape /Tribute / Mariner, MY11, 3.0L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2700	2 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2802	2 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
U0073	2 Escape /Tribute / Mariner, MY11, 3.0L	Control Module Communication Bus "A" Off	G	NETWORK COMM

U0121	2 Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0306	2 Escape /Tribute / Mariner, MY11, 3.0L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
U0418	2 Escape /Tribute / Mariner, MY11, 3.0L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P061C	1 Escape /Tribute / Mariner, MY11, 3.0L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P1674	1 Escape /Tribute / Mariner, MY11, 3.0L	Control Module Software Corrupted	G*+	ETC (SYSTEM)
P2072	1 Escape /Tribute / Mariner, MY11, 3.0L	Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
B2103	1 Escape /Tribute / Mariner, MY11, 3.0L	Antenna Not Connected		CCM VEHICLE
P0014	1 Escape /Tribute / Mariner, MY11, 3.0L	Exhaust (B) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0046	1 Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P007D	1 Escape /Tribute / Mariner, MY11, 3.0L	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)	G*	BOOST CONTROL (COMPONENT)
P00B7	1 Escape /Tribute / Mariner, MY11, 3.0L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0116	1 Escape /Tribute / Mariner, MY11, 3.0L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0118	1 Escape /Tribute / Mariner, MY11, 3.0L	Engine Coolant Temperature Sensor 1 Circuit High	G*	CCM TEMP
P0126	1 Escape /Tribute / Mariner, MY11, 3.0L	Insufficient Coolant Temp For Stable Operation	[G]	ENGINE COOLING (SYSTEM)
P012F	1 Escape /Tribute / Mariner, MY11, 3.0L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0131	1 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0132	1 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0134	1 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P013E	1 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0151	1 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0181	1 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Temperature Sensor "A" Circuit Range/Performance		FUEL (COMPONENT)
P0217	1 Escape /Tribute / Mariner, MY11, 3.0L	Engine Coolant Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0230	1 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0231	1 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P02E0	1 Escape /Tribute / Mariner, MY11, 3.0L	Diesel Intake Air Flow Control Circuit/Open		EGR (COMPONENT)
P02E9	1 Escape /Tribute / Mariner, MY11, 3.0L	Diesel Intake Air Flow Position Sensor Circuit High		EGR (COMPONENT)
P0357	1 Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0358	1 Escape /Tribute / Mariner, MY11, 3.0L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0366	1 Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Sensor "B" Circuit Range/Performance (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0380	1 Escape /Tribute / Mariner, MY11, 3.0L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P0402	1 Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P0411	1 Escape /Tribute / Mariner, MY11, 3.0L	AIR System Incorrect Flow Detected	G*	SEC AIR (SYSTEM)
P042F	1 Escape /Tribute / Mariner, MY11, 3.0L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0475	1 Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0476	1 Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0478	1 Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0481	1 Escape /Tribute / Mariner, MY11, 3.0L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0487	1 Escape /Tribute / Mariner, MY11, 3.0L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0503	1 Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G	CCM TRANS (NON-MIL)
P0529	1 Escape /Tribute / Mariner, MY11, 3.0L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P052A	1 Escape /Tribute / Mariner, MY11, 3.0L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P052B	1 Escape /Tribute / Mariner, MY11, 3.0L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P052D	1 Escape /Tribute / Mariner, MY11, 3.0L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0560	1 Escape /Tribute / Mariner, MY11, 3.0L	System Voltage		CCM A/C, FAN, PS, GEN
P0606	1 Escape /Tribute / Mariner, MY11, 3.0L	Control Module Processor	G*	CCM MODULE
P0610	1 Escape /Tribute / Mariner, MY11, 3.0L	Control Module Vehicle Options Error	G	CCM MODULE
P0623	1 Escape /Tribute / Mariner, MY11, 3.0L	Generator Lamp Control Circuit		CCM A/C, FAN, PS, GEN
P0642	1 Escape /Tribute / Mariner, MY11, 3.0L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0649	1 Escape /Tribute / Mariner, MY11, 3.0L	Cruise Control Lamp Control Circuit		CCM VEHICLE
P0670	1 Escape /Tribute / Mariner, MY11, 3.0L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG

P0671	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0684	1 Escape /Tribute / Mariner, MY11, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P0701	1 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0703	1 Escape /Tribute / Mariner, MY11, 3.0L	Brake Switch "B" Circuit		CCM VEHICLE
P0705	1 Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0721	1 Escape /Tribute / Mariner, MY11, 3.0L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P0742	1 Escape /Tribute / Mariner, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*÷	CCM TRANS ACTUATOR
P0745	1 Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0759	1 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0772	1 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0775	1 Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid B	G*	CCM TRANS ACTUATOR
P0963	1 Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0973	1 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0974	1 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0976	1 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	1 Escape /Tribute / Mariner, MY11, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1103	1 Escape /Tribute / Mariner, MY11, 3.0L	Mass Air Flow Sensor In Range But Higher Than Expected		CCM MAF/MAP/BARO
P1119	1 Escape /Tribute / Mariner, MY11, 3.0L	Manifold Air Temperature Circuit High		CCM TEMP
P1149	1 Escape /Tribute / Mariner, MY11, 3.0L	Generator 2 Monitor Circuit High		CCM A/C, FAN, PS, GEN
P1151	1 Escape /Tribute / Mariner, MY11, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P120F	1 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1212	1 Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1218	1 Escape /Tribute / Mariner, MY11, 3.0L	CID High		CCM CKP/CMP/IGNITION
P1235	1 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1271	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1272	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1273	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1274	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1276	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	1 Escape /Tribute / Mariner, MY11, 3.0L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1283	1 Escape /Tribute / Mariner, MY11, 3.0L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1284	1 Escape /Tribute / Mariner, MY11, 3.0L	Aborted KOER - Injector Control Pressure Failure		FUEL (COMPONENT)
P1378	1 Escape /Tribute / Mariner, MY11, 3.0L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1380	1 Escape /Tribute / Mariner, MY11, 3.0L	Camshaft Position Actuator Circuit (Bank 1)	G*	VVT (COMPONENT)
P1395	1 Escape /Tribute / Mariner, MY11, 3.0L	Glow Plug Monitor Fault (Bank 1)		CCM GLOW PLUG
P1443	1 Escape /Tribute / Mariner, MY11, 3.0L	EVAP System Control Valve (low/no flow)	G*	MONITOR - EVAP (SYSTEM)
P1459	1 Escape /Tribute / Mariner, MY11, 3.0L	A/C Recirculation Switch Out of Self Test Range		CCM A/C, FAN, PS, GEN
P1469	1 Escape /Tribute / Mariner, MY11, 3.0L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1502	1 Escape /Tribute / Mariner, MY11, 3.0L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1565	1 Escape /Tribute / Mariner, MY11, 3.0L	Speed Control Command Switch Out Of Range High	G	CCM VEHICLE
P1575	1 Escape /Tribute / Mariner, MY11, 3.0L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P160A	1 Escape /Tribute / Mariner, MY11, 3.0L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P163A	1 Escape /Tribute / Mariner, MY11, 3.0L	Generator "B" Control Circuit		CCM A/C, FAN, PS, GEN
P164B	1 Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 2 Sensor 1)	G	HO2S (COMPONENT)
P1668	1 Escape /Tribute / Mariner, MY11, 3.0L	PCM/IDM Communications Error		CCM CKP/CMP/IGNITION
P1690	1 Escape /Tribute / Mariner, MY11, 3.0L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P1747	1 Escape /Tribute / Mariner, MY11, 3.0L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P1A0C	1 Escape /Tribute / Mariner, MY11, 3.0L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P1A13	1 Escape /Tribute / Mariner, MY11, 3.0L	Hybrid Powertrain Control Module - Regenerative Braking Disabled	G	HYBRID
P1A14	1 Escape /Tribute / Mariner, MY11, 3.0L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID

P1A1B	1	Escape /Tribute / Mariner, MY11, 3.0L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P2008	1	Escape /Tribute / Mariner, MY11, 3.0L	Intake Manifold Runner Control Circuit/Open (Bank 1)	G*	CCM IMRC/IMCC
P202D	1	Escape /Tribute / Mariner, MY11, 3.0L	Reductant Leakage		NOX CATALYST (SYSTEM)
P2033	1	Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2043	1	Escape /Tribute / Mariner, MY11, 3.0L	Reductant Temperature Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P2068	1	Escape /Tribute / Mariner, MY11, 3.0L	Fuel Level Sensor "B" Circuit High	G*	CCM FUEL LEVEL
P20E4	1	Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	1	Escape /Tribute / Mariner, MY11, 3.0L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2140	1	Escape /Tribute / Mariner, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2178	1	Escape /Tribute / Mariner, MY11, 3.0L	Fuel Control System "A" Too Rich Off Idle (Bank 1)		FUEL (SYSTEM)
P2187	1	Escape /Tribute / Mariner, MY11, 3.0L	Fuel Control System "A" Too Lean at Idle (Bank 1)		FUEL (SYSTEM)
P2237	1	Escape /Tribute / Mariner, MY11, 3.0L	O2 Sensor Positive Current Control Circuit/Open (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P2284	1	Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2289	1	Escape /Tribute / Mariner, MY11, 3.0L	Injector Control Pressure Too High - Engine Off		FUEL (COMPONENT)
P242B	1	Escape /Tribute / Mariner, MY11, 3.0L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P2452	1	Escape /Tribute / Mariner, MY11, 3.0L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2453	1	Escape /Tribute / Mariner, MY11, 3.0L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P2563	1	Escape /Tribute / Mariner, MY11, 3.0L	Turbocharger Boost Control Position Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P2760	1	Escape /Tribute / Mariner, MY11, 3.0L	Torque Converter Clutch Pressure Control Solenoid Intermittent	G	CCM TRANS ACTUATOR
P2800	1	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
P2801	1	Escape /Tribute / Mariner, MY11, 3.0L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
U0105	1	Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0111	1	Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
U012D	1	Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication With Generator Control Module	G	NETWORK COMM
U0422	1	Escape /Tribute / Mariner, MY11, 3.0L	Invalid Data Received from Body Control Module	G	NETWORK COMM
U0469	1	Escape /Tribute / Mariner, MY11, 3.0L	Invalid Data Received From Starter / Generator Control Module	G	NETWORK COMM
U1262	1	Escape /Tribute / Mariner, MY11, 3.0L	SCP (J1850) Communication Bus Fault		NETWORK COMM
U1262	1	Escape /Tribute / Mariner, MY11, 3.0L	SCP (J1850) Communication Bus Fault	G	NETWORK COMM
U1900	1	Escape /Tribute / Mariner, MY11, 3.0L	CAN Communication Bus Fault - Receive Error	G	NETWORK COMM
U210B	1	Escape /Tribute / Mariner, MY11, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P1464	222	Escape /Tribute / Mariner, MY12, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1260	160	Escape /Tribute / Mariner, MY12, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	160	Escape /Tribute / Mariner, MY12, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1285	125	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1299	123	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0016	114	Escape /Tribute / Mariner, MY12, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P052A	104	Escape /Tribute / Mariner, MY12, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P1A1B	103	Escape /Tribute / Mariner, MY12, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P0316	95	Escape /Tribute / Mariner, MY12, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1288	95	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P1602	80	Escape /Tribute / Mariner, MY12, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0171	73	Escape /Tribute / Mariner, MY12, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P1289	70	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P0102	66	Escape /Tribute / Mariner, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P1A10	60	Escape /Tribute / Mariner, MY12, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P0456	53	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1A14	53	Escape /Tribute / Mariner, MY12, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P0113	52	Escape /Tribute / Mariner, MY12, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P144A	52	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P0300	50	Escape /Tribute / Mariner, MY12, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)

P0442	48	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0446	47	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0141	45	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0223	44	Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0122	43	Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0301	43	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P1622	43	Escape /Tribute / Mariner, MY12, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P2195	43	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2627	38	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P1780	37	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P1703	36	Escape /Tribute / Mariner, MY12, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0455	35	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0A7C	35	Escape /Tribute / Mariner, MY12, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P0443	34	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P1921	34	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Signal	G	NETWORK COMM
P0135	33	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P1A0C	32	Escape /Tribute / Mariner, MY12, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P0010	31	Escape /Tribute / Mariner, MY12, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0302	31	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0304	31	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0562	29	Escape /Tribute / Mariner, MY12, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0297	28	Escape /Tribute / Mariner, MY12, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0706	28	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0128	27	Escape /Tribute / Mariner, MY12, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0340	27	Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0463	27	Escape /Tribute / Mariner, MY12, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0707	27	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
U0418	27	Escape /Tribute / Mariner, MY12, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P025A	26	Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0403	26	Escape /Tribute / Mariner, MY12, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P2111	26	Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
U0109	26	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0303	25	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0690	25	Escape /Tribute / Mariner, MY12, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0625	23	Escape /Tribute / Mariner, MY12, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0352	22	Escape /Tribute / Mariner, MY12, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0130	21	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0620	21	Escape /Tribute / Mariner, MY12, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0351	20	Escape /Tribute / Mariner, MY12, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0116	19	Escape /Tribute / Mariner, MY12, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P013A	18	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0203	18	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
U0129	18	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P0344	17	Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0457	17	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P2112	17	Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P0104	16	Escape /Tribute / Mariner, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0201	16	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0353	16	Escape /Tribute / Mariner, MY12, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0204	15	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)

P0420	15	Escape /Tribute / Mariner, MY12, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0581	15	Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P1702	15	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
U0111	15	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
P0202	14	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0451	14	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P2418	14	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P0505	13	Escape /Tribute / Mariner, MY12, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P052B	13	Escape /Tribute / Mariner, MY12, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0533	13	Escape /Tribute / Mariner, MY12, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0984	13	Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P128A	13	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P2196	13	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
U0155	13	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0354	12	Escape /Tribute / Mariner, MY12, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0504	12	Escape /Tribute / Mariner, MY12, 2.5L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P1101	12	Escape /Tribute / Mariner, MY12, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
U0101	12	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P0106	11	Escape /Tribute / Mariner, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P1124	11	Escape /Tribute / Mariner, MY12, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P260F	11	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0030	10	Escape /Tribute / Mariner, MY12, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0111	10	Escape /Tribute / Mariner, MY12, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0341	10	Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P068A	10	Escape /Tribute / Mariner, MY12, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P06B8	10	Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0710	10	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0A08	10	Escape /Tribute / Mariner, MY12, 2.5L	DC/DC Converter Status Circuit/Open	G	HYBRID
P0A7D	10	Escape /Tribute / Mariner, MY12, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
P0011	9	Escape /Tribute / Mariner, MY12, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0012	9	Escape /Tribute / Mariner, MY12, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0722	9	Escape /Tribute / Mariner, MY12, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0735	9	Escape /Tribute / Mariner, MY12, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0772	9	Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P1450	9	Escape /Tribute / Mariner, MY12, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P1744	9	Escape /Tribute / Mariner, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P0453	8	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0600	8	Escape /Tribute / Mariner, MY12, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P0627	8	Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0713	8	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0741	8	Escape /Tribute / Mariner, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0A18	8	Escape /Tribute / Mariner, MY12, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	8	Escape /Tribute / Mariner, MY12, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P1290	8	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1705	8	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P2270	8	Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0219	7	Escape /Tribute / Mariner, MY12, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P060A	7	Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P061C	7	Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0753	7	Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR

P1127	7 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1711	7 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P2107	7 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
U0300	7 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0109	6 Escape /Tribute / Mariner, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0275	6 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0400	6 Escape /Tribute / Mariner, MY12, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P0563	6 Escape /Tribute / Mariner, MY12, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P060C	6 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P0645	6 Escape /Tribute / Mariner, MY12, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0677	6 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0685	6 Escape /Tribute / Mariner, MY12, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0708	6 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0715	6 Escape /Tribute / Mariner, MY12, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0717	6 Escape /Tribute / Mariner, MY12, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0740	6 Escape /Tribute / Mariner, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0743	6 Escape /Tribute / Mariner, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0750	6 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P1397	6 Escape /Tribute / Mariner, MY12, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1639	6 Escape /Tribute / Mariner, MY12, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P2096	6 Escape /Tribute / Mariner, MY12, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2127	6 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2701	6 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0054	5 Escape /Tribute / Mariner, MY12, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0108	5 Escape /Tribute / Mariner, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0572	5 Escape /Tribute / Mariner, MY12, 2.5L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0720	5 Escape /Tribute / Mariner, MY12, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0733	5 Escape /Tribute / Mariner, MY12, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0760	5 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0763	5 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0770	5 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	5 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P1408	5 Escape /Tribute / Mariner, MY12, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P2122	5 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2610	5 Escape /Tribute / Mariner, MY12, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2802	5 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
P0068	4 Escape /Tribute / Mariner, MY12, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0174	4 Escape /Tribute / Mariner, MY12, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0222	4 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0282	4 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	4 Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0689	4 Escape /Tribute / Mariner, MY12, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0731	4 Escape /Tribute / Mariner, MY12, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0748	4 Escape /Tribute / Mariner, MY12, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0755	4 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0756	4 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0758	4 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0765	4 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0768	4 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P0960	4 Escape /Tribute / Mariner, MY12, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR

P0A03	4 Escape /Tribute / Mariner, MY12, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P0A1F	4 Escape /Tribute / Mariner, MY12, 2.5L	Battery Energy Control Module	G	HYBRID
P0C2F	4 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P1184	4 Escape /Tribute / Mariner, MY12, 2.5L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1536	4 Escape /Tribute / Mariner, MY12, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P163F	4 Escape /Tribute / Mariner, MY12, 2.5L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P2101	4 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P2135	4 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P2533	4 Escape /Tribute / Mariner, MY12, 2.5L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P2600	4 Escape /Tribute / Mariner, MY12, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2800	4 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
B1600	3 Escape /Tribute / Mariner, MY12, 2.5L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0000	3 Escape /Tribute / Mariner, MY12, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0175	3 Escape /Tribute / Mariner, MY12, 2.5L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P025B	3 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0261	3 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0264	3 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	3 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	3 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0281	3 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0430	3 Escape /Tribute / Mariner, MY12, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0480	3 Escape /Tribute / Mariner, MY12, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0500	3 Escape /Tribute / Mariner, MY12, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	3 Escape /Tribute / Mariner, MY12, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0512	3 Escape /Tribute / Mariner, MY12, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0528	3 Escape /Tribute / Mariner, MY12, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0579	3 Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P061A	3 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Torque Performance	G+	ETC (SYSTEM)
P061B	3 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0657	3 Escape /Tribute / Mariner, MY12, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0683	3 Escape /Tribute / Mariner, MY12, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0A00	3 Escape /Tribute / Mariner, MY12, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P0A09	3 Escape /Tribute / Mariner, MY12, 2.5L	DC/DC Converter Status Circuit Low	G	HYBRID
P1316	3 Escape /Tribute / Mariner, MY12, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1335	3 Escape /Tribute / Mariner, MY12, 2.5L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1502	3 Escape /Tribute / Mariner, MY12, 2.5L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1575	3 Escape /Tribute / Mariner, MY12, 2.5L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P1783	3 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P2104	3 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2271	3 Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2285	3 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2704	3 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0105	3 Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0306	3 Escape /Tribute / Mariner, MY12, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
P0101	2 Escape /Tribute / Mariner, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0121	2 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P0172	2 Escape /Tribute / Mariner, MY12, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0221	2 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0266	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0267	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)

P0269	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0270	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0276	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0284	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0307	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0320	2 Escape /Tribute / Mariner, MY12, 2.5L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0325	2 Escape /Tribute / Mariner, MY12, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0404	2 Escape /Tribute / Mariner, MY12, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0460	2 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0470	2 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0472	2 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0478	2 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0481	2 Escape /Tribute / Mariner, MY12, 2.5L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0482	2 Escape /Tribute / Mariner, MY12, 2.5L	Fan 3 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0488	2 Escape /Tribute / Mariner, MY12, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0532	2 Escape /Tribute / Mariner, MY12, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0568	2 Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	2 Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P0573	2 Escape /Tribute / Mariner, MY12, 2.5L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0611	2 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P0626	2 Escape /Tribute / Mariner, MY12, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0642	2 Escape /Tribute / Mariner, MY12, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0670	2 Escape /Tribute / Mariner, MY12, 2.5L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0671	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0672	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0721	2 Escape /Tribute / Mariner, MY12, 2.5L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P0729	2 Escape /Tribute / Mariner, MY12, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0732	2 Escape /Tribute / Mariner, MY12, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0751	2 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0A02	2 Escape /Tribute / Mariner, MY12, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit Low	G	HYBRID
P0A05	2 Escape /Tribute / Mariner, MY12, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P1116	2 Escape /Tribute / Mariner, MY12, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P115A	2 Escape /Tribute / Mariner, MY12, 2.5L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1233	2 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1235	2 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1271	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	2 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	2 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1501	2 Escape /Tribute / Mariner, MY12, 2.5L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1635	2 Escape /Tribute / Mariner, MY12, 2.5L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P2100	2 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2105	2 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2106	2 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2110	2 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2197	2 Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)

P2263	2 Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2291	2 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2614	2 Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P2700	2 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2702	2 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2803	2 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "B" Circuit High	G	CCM TRANS SENSOR
U0151	2 Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Restraints Control Module	G	NETWORK COMM
B1601	1 Escape /Tribute / Mariner, MY12, 2.5L	Unprogrammed PATS Key		CCM VEHICLE
B1681	1 Escape /Tribute / Mariner, MY12, 2.5L	PATS Transceiver Signal Is Not Being Received by the PATS Control		CCM VEHICLE
P0001	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0003	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Volume Regulator Control Circuit Low	G*	FUEL (COMPONENT)
P0017	1 Escape /Tribute / Mariner, MY12, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor B)	G*	CCM CKP/CMP/IGNITION
P0022	1 Escape /Tribute / Mariner, MY12, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0046	1 Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0087	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0088	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0091	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pressure Regulator Control Circuit Low		FUEL (COMPONENT)
P00B7	1 Escape /Tribute / Mariner, MY12, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0107	1 Escape /Tribute / Mariner, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0114	1 Escape /Tribute / Mariner, MY12, 2.5L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0123	1 Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P012F	1 Escape /Tribute / Mariner, MY12, 2.5L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0133	1 Escape /Tribute / Mariner, MY12, 2.5L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0148	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0183	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0191	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0193	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0196	1 Escape /Tribute / Mariner, MY12, 2.5L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0198	1 Escape /Tribute / Mariner, MY12, 2.5L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0232	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0237	1 Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0265	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0268	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0274	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 5 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0280	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 7 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0283	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 8 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0305	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0336	1 Escape /Tribute / Mariner, MY12, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0337	1 Escape /Tribute / Mariner, MY12, 2.5L	Crankshaft Position Sensor "A" Circuit Low		CCM CKP/CMP/IGNITION
P0346	1 Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0355	1 Escape /Tribute / Mariner, MY12, 2.5L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0365	1 Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Sensor "B" Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0369	1 Escape /Tribute / Mariner, MY12, 2.5L	Camshaft Position Sensor "B" Circuit Intermittent (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0380	1 Escape /Tribute / Mariner, MY12, 2.5L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P0401	1 Escape /Tribute / Mariner, MY12, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0407	1 Escape /Tribute / Mariner, MY12, 2.5L	EGR Sensor "B" Circuit Low		EGR (COMPONENT)
P040D	1 Escape /Tribute / Mariner, MY12, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0421	1 Escape /Tribute / Mariner, MY12, 2.5L	Catalyst 1 Efficiency Below Threshold (Bank 1)		CATALYST (SYSTEM)
P0471	1 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Pressure Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)

P0475	1 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0476	1 Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0506	1 Escape /Tribute / Mariner, MY12, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P050B	1 Escape /Tribute / Mariner, MY12, 2.5L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0529	1 Escape /Tribute / Mariner, MY12, 2.5L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P0565	1 Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	1 Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	1 Escape /Tribute / Mariner, MY12, 2.5L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0603	1 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0606	1 Escape /Tribute / Mariner, MY12, 2.5L	Control Module Processor	G*	CCM MODULE
P0607	1 Escape /Tribute / Mariner, MY12, 2.5L	Control Module Performance	G*	CCM MODULE
P064D	1 Escape /Tribute / Mariner, MY12, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P065B	1 Escape /Tribute / Mariner, MY12, 2.5L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0684	1 Escape /Tribute / Mariner, MY12, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P0691	1 Escape /Tribute / Mariner, MY12, 2.5L	Fan 1 Control Circuit Low	G	CCM A/C, FAN, PS, GEN
P0701	1 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0734	1 Escape /Tribute / Mariner, MY12, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0754	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "A" Intermittent	G+	CCM TRANS ACTUATOR
P0757	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0761	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0762	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0766	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0767	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0769	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P0771	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P07AA	1 Escape /Tribute / Mariner, MY12, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0973	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	1 Escape /Tribute / Mariner, MY12, 2.5L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0A10	1 Escape /Tribute / Mariner, MY12, 2.5L	DC/DC Converter Status Circuit High	G	HYBRID
P1111	1 Escape /Tribute / Mariner, MY12, 2.5L	System Pass		NO-FAULT CODES
P1119	1 Escape /Tribute / Mariner, MY12, 2.5L	Manifold Air Temperature Circuit High		CCM TEMP
P1120	1 Escape /Tribute / Mariner, MY12, 2.5L	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	ETC (COMPONENT)
P1131	1 Escape /Tribute / Mariner, MY12, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1132	1 Escape /Tribute / Mariner, MY12, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1137	1 Escape /Tribute / Mariner, MY12, 2.5L	Lack Of HO2S12 Switches - Sensor Indicates Lean		HO2S (SYSTEM)
P1140	1 Escape /Tribute / Mariner, MY12, 2.5L	Water in Fuel Condition		CCM VEHICLE
P1148	1 Escape /Tribute / Mariner, MY12, 2.5L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1209	1 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Peak Delta Test Fault		FUEL (COMPONENT)
P120F	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1210	1 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Higher Than Desired (engine off)		FUEL (COMPONENT)
P1211	1 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1212	1 Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1234	1 Escape /Tribute / Mariner, MY12, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1247	1 Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1248	1 Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1270	1 Escape /Tribute / Mariner, MY12, 2.5L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1272	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1273	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1274	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	1 Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)

P1276	1	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	1	Escape /Tribute / Mariner, MY12, 2.5L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1282	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1283	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1293	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1294	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1296	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector Multiple Faults (Bank 2)		FUEL (COMPONENT)
P1336	1	Escape /Tribute / Mariner, MY12, 2.5L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1378	1	Escape /Tribute / Mariner, MY12, 2.5L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1405	1	Escape /Tribute / Mariner, MY12, 2.5L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P160A	1	Escape /Tribute / Mariner, MY12, 2.5L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P1633	1	Escape /Tribute / Mariner, MY12, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1636	1	Escape /Tribute / Mariner, MY12, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P163E	1	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Control Module Programming Error	G*	CCM MODULE
P1646	1	Escape /Tribute / Mariner, MY12, 2.5L	Linear O2 Sensor Control Chip (Bank 1)	G	HO2S (COMPONENT)
P1650	1	Escape /Tribute / Mariner, MY12, 2.5L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1670	1	Escape /Tribute / Mariner, MY12, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1690	1	Escape /Tribute / Mariner, MY12, 2.5L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P1709	1	Escape /Tribute / Mariner, MY12, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P179A	1	Escape /Tribute / Mariner, MY12, 2.5L	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction		BOOST CONTROL (COMPONENT)
P1A0D	1	Escape /Tribute / Mariner, MY12, 2.5L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P2032	1	Escape /Tribute / Mariner, MY12, 2.5L	Exhaust Gas Temperature Sensor Circuit Low (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2097	1	Escape /Tribute / Mariner, MY12, 2.5L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P2123	1	Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2128	1	Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2138	1	Escape /Tribute / Mariner, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2257	1	Escape /Tribute / Mariner, MY12, 2.5L	AIR System Control "A" Circuit Low	G*	SEC AIR (COMPONENT)
P2262	1	Escape /Tribute / Mariner, MY12, 2.5L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2284	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2287	1	Escape /Tribute / Mariner, MY12, 2.5L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2450	1	Escape /Tribute / Mariner, MY12, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P2532	1	Escape /Tribute / Mariner, MY12, 2.5L	Ignition Switch Run Position Circuit High	G	CCM VEHICLE
P2535	1	Escape /Tribute / Mariner, MY12, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
P2617	1	Escape /Tribute / Mariner, MY12, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2703	1	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2801	1	Escape /Tribute / Mariner, MY12, 2.5L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
U0073	1	Escape /Tribute / Mariner, MY12, 2.5L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0121	1	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0422	1	Escape /Tribute / Mariner, MY12, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
U1039	1	Escape /Tribute / Mariner, MY12, 2.5L	SCP (J1850) Invalid or Missing Data for Vehicle Speed	G*	NETWORK COMM
U1051	1	Escape /Tribute / Mariner, MY12, 2.5L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
U210B	1	Escape /Tribute / Mariner, MY12, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P1464	261	Escape /Tribute / Mariner, MY12, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1260	228	Escape /Tribute / Mariner, MY12, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	228	Escape /Tribute / Mariner, MY12, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0316	183	Escape /Tribute / Mariner, MY12, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0022	162	Escape /Tribute / Mariner, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0346	160	Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0341	154	Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0012	142	Escape /Tribute / Mariner, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)

P0456	117	Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1602	110	Escape /Tribute / Mariner, MY12, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P013A	73	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0300	71	Escape /Tribute / Mariner, MY12, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P1288	71	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0420	65	Escape /Tribute / Mariner, MY12, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0305	60	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P1780	51	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P0102	50	Escape /Tribute / Mariner, MY12, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0306	48	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0446	46	Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0301	43	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0304	42	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P1622	42	Escape /Tribute / Mariner, MY12, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0122	42	Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0113	40	Escape /Tribute / Mariner, MY12, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0303	40	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0223	40	Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0161	39	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P1703	37	Escape /Tribute / Mariner, MY12, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0175	36	Escape /Tribute / Mariner, MY12, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0297	36	Escape /Tribute / Mariner, MY12, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P2195	36	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P025A	35	Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0302	34	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
U0109	34	Escape /Tribute / Mariner, MY12, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0010	33	Escape /Tribute / Mariner, MY12, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0172	33	Escape /Tribute / Mariner, MY12, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P2197	33	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P013C	32	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P1285	32	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0141	31	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0020	30	Escape /Tribute / Mariner, MY12, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P1299	30	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P1921	30	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Signal	G	NETWORK COMM
P0403	29	Escape /Tribute / Mariner, MY12, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0443	26	Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0455	24	Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0706	24	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P2627	24	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0155	23	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0174	23	Escape /Tribute / Mariner, MY12, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0135	22	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0171	22	Escape /Tribute / Mariner, MY12, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0345	22	Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0349	22	Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0707	22	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0533	21	Escape /Tribute / Mariner, MY12, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0690	20	Escape /Tribute / Mariner, MY12, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0153	18	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)

P1289	18	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P2630	18	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0430	17	Escape /Tribute / Mariner, MY12, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0457	17	Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P0625	17	Escape /Tribute / Mariner, MY12, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0021	16	Escape /Tribute / Mariner, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P2196	16	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2111	16	Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0340	15	Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0463	15	Escape /Tribute / Mariner, MY12, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P144A	15	Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1702	15	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0620	14	Escape /Tribute / Mariner, MY12, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P2198	14	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0011	13	Escape /Tribute / Mariner, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0344	13	Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0108	12	Escape /Tribute / Mariner, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0356	12	Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0627	12	Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P06B8	12	Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0710	12	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0504	11	Escape /Tribute / Mariner, MY12, 3.0L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P0505	11	Escape /Tribute / Mariner, MY12, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P1127	11	Escape /Tribute / Mariner, MY12, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1397	11	Escape /Tribute / Mariner, MY12, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0016	10	Escape /Tribute / Mariner, MY12, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0717	10	Escape /Tribute / Mariner, MY12, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0748	10	Escape /Tribute / Mariner, MY12, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P2098	10	Escape /Tribute / Mariner, MY12, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P0581	9	Escape /Tribute / Mariner, MY12, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0713	9	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0715	9	Escape /Tribute / Mariner, MY12, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0768	9	Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P1705	9	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P0104	8	Escape /Tribute / Mariner, MY12, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0202	8	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0351	8	Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0353	8	Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0355	8	Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0735	8	Escape /Tribute / Mariner, MY12, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0960	8	Escape /Tribute / Mariner, MY12, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0984	8	Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P2272	8	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P1124	8	Escape /Tribute / Mariner, MY12, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
U0300	8	Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0128	7	Escape /Tribute / Mariner, MY12, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0150	7	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0205	7	Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0532	7	Escape /Tribute / Mariner, MY12, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0722	7	Escape /Tribute / Mariner, MY12, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR

P0753	7 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0772	7 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P1489	7 Escape /Tribute / Mariner, MY12, 3.0L	PCV Heater Control Circuit	G	PCV
P2122	7 Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P260F	7 Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0600	7 Escape /Tribute / Mariner, MY12, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P060A	7 Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P2112	7 Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P0354	6 Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0400	6 Escape /Tribute / Mariner, MY12, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0480	6 Escape /Tribute / Mariner, MY12, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0645	6 Escape /Tribute / Mariner, MY12, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0743	6 Escape /Tribute / Mariner, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0758	6 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0765	6 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0770	6 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	6 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P1450	6 Escape /Tribute / Mariner, MY12, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P2610	6 Escape /Tribute / Mariner, MY12, 3.0L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2704	6 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0201	5 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	5 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	5 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0206	5 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0657	5 Escape /Tribute / Mariner, MY12, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0685	5 Escape /Tribute / Mariner, MY12, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0729	5 Escape /Tribute / Mariner, MY12, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0763	5 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0767	5 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P1711	5 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P2096	5 Escape /Tribute / Mariner, MY12, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P0018	4 Escape /Tribute / Mariner, MY12, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0030	4 Escape /Tribute / Mariner, MY12, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0060	4 Escape /Tribute / Mariner, MY12, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0107	4 Escape /Tribute / Mariner, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0279	4 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	4 Escape /Tribute / Mariner, MY12, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0352	4 Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0720	4 Escape /Tribute / Mariner, MY12, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0731	4 Escape /Tribute / Mariner, MY12, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0733	4 Escape /Tribute / Mariner, MY12, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0740	4 Escape /Tribute / Mariner, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0750	4 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0755	4 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0962	4 Escape /Tribute / Mariner, MY12, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1101	4 Escape /Tribute / Mariner, MY12, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P1783	4 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P2127	4 Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2270	4 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2107	4 Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)

P0130	3 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0219	3 Escape /Tribute / Mariner, MY12, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0266	3 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0330	3 Escape /Tribute / Mariner, MY12, 3.0L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0563	3 Escape /Tribute / Mariner, MY12, 3.0L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0572	3 Escape /Tribute / Mariner, MY12, 3.0L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0611	3 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P0626	3 Escape /Tribute / Mariner, MY12, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0675	3 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P068A	3 Escape /Tribute / Mariner, MY12, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0742	3 Escape /Tribute / Mariner, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0760	3 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0973	3 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0976	3 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	3 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	3 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1639	3 Escape /Tribute / Mariner, MY12, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P1744	3 Escape /Tribute / Mariner, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2291	3 Escape /Tribute / Mariner, MY12, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2700	3 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2701	3 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0222	3 Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P061B	3 Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0000	2 Escape /Tribute / Mariner, MY12, 3.0L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0050	2 Escape /Tribute / Mariner, MY12, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0054	2 Escape /Tribute / Mariner, MY12, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0109	2 Escape /Tribute / Mariner, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0132	2 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0191	2 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0193	2 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P025B	2 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0261	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0263	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0264	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0269	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0270	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0276	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0284	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0307	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0335	2 Escape /Tribute / Mariner, MY12, 3.0L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0336	2 Escape /Tribute / Mariner, MY12, 3.0L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0460	2 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0573	2 Escape /Tribute / Mariner, MY12, 3.0L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0579	2 Escape /Tribute / Mariner, MY12, 3.0L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0642	2 Escape /Tribute / Mariner, MY12, 3.0L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0671	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	2 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG

P0689	2 Escape /Tribute / Mariner, MY12, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0708	2 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0732	2 Escape /Tribute / Mariner, MY12, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0741	2 Escape /Tribute / Mariner, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0751	2 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P1211	2 Escape /Tribute / Mariner, MY12, 3.0L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1282	2 Escape /Tribute / Mariner, MY12, 3.0L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1408	2 Escape /Tribute / Mariner, MY12, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1507	2 Escape /Tribute / Mariner, MY12, 3.0L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P163F	2 Escape /Tribute / Mariner, MY12, 3.0L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P164B	2 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 2 Sensor 1)	G	HO2S (COMPONENT)
P2273	2 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2285	2 Escape /Tribute / Mariner, MY12, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2614	2 Escape /Tribute / Mariner, MY12, 3.0L	Camshaft Position Output Circuit/Open		CCM MODULE
P2617	2 Escape /Tribute / Mariner, MY12, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2105	2 Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
B1601	1 Escape /Tribute / Mariner, MY12, 3.0L	Unprogrammed PATS Key		CCM VEHICLE
P0001	1 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0046	1 Escape /Tribute / Mariner, MY12, 3.0L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0053	1 Escape /Tribute / Mariner, MY12, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0059	1 Escape /Tribute / Mariner, MY12, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0068	1 Escape /Tribute / Mariner, MY12, 3.0L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0073	1 Escape /Tribute / Mariner, MY12, 3.0L	Ambient Air Temperature Sensor Circuit "A" High	G*	CCM TEMP
P007D	1 Escape /Tribute / Mariner, MY12, 3.0L	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)	G*	BOOST CONTROL (COMPONENT)
P0090	1 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pressure Regulator Control Circuit/Open		FUEL (COMPONENT)
P0100	1 Escape /Tribute / Mariner, MY12, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0106	1 Escape /Tribute / Mariner, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0114	1 Escape /Tribute / Mariner, MY12, 3.0L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0118	1 Escape /Tribute / Mariner, MY12, 3.0L	Engine Coolant Temperature Sensor 1 Circuit High	G*	CCM TEMP
P0121	1 Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P0138	1 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P014A	1 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0158	1 Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0183	1 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0198	1 Escape /Tribute / Mariner, MY12, 3.0L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0232	1 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0234	1 Escape /Tribute / Mariner, MY12, 3.0L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0243	1 Escape /Tribute / Mariner, MY12, 3.0L	Turbocharger/Supercharger Wastegate Solenoid "A"	G	BOOST CONTROL (COMPONENT)
P0275	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0278	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0280	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 7 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0281	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P02E0	1 Escape /Tribute / Mariner, MY12, 3.0L	Diesel Intake Air Flow Control Circuit/Open		EGR (COMPONENT)
P02E1	1 Escape /Tribute / Mariner, MY12, 3.0L	Diesel Intake Air Flow Control Performance		EGR (COMPONENT)
P02E9	1 Escape /Tribute / Mariner, MY12, 3.0L	Diesel Intake Air Flow Position Sensor Circuit High		EGR (COMPONENT)
P0320	1 Escape /Tribute / Mariner, MY12, 3.0L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0357	1 Escape /Tribute / Mariner, MY12, 3.0L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0401	1 Escape /Tribute / Mariner, MY12, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0405	1 Escape /Tribute / Mariner, MY12, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0442	1 Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)

P0451	1 Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0453	1 Escape /Tribute / Mariner, MY12, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0473	1 Escape /Tribute / Mariner, MY12, 3.0L	Exhaust Pressure Sensor "A" Circuit High		BOOST CONTROL (COMPONENT)
P0476	1 Escape /Tribute / Mariner, MY12, 3.0L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0478	1 Escape /Tribute / Mariner, MY12, 3.0L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0481	1 Escape /Tribute / Mariner, MY12, 3.0L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0487	1 Escape /Tribute / Mariner, MY12, 3.0L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0512	1 Escape /Tribute / Mariner, MY12, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P0528	1 Escape /Tribute / Mariner, MY12, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P052A	1 Escape /Tribute / Mariner, MY12, 3.0L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0541	1 Escape /Tribute / Mariner, MY12, 3.0L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0605	1 Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0607	1 Escape /Tribute / Mariner, MY12, 3.0L	Control Module Performance	G*	CCM MODULE
P061C	1 Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P064D	1 Escape /Tribute / Mariner, MY12, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P0672	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	1 Escape /Tribute / Mariner, MY12, 3.0L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P06A6	1 Escape /Tribute / Mariner, MY12, 3.0L	Sensor Reference Voltage "A" Circuit Range/Performance		CCM MODULE
P0701	1 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0705	1 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0712	1 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0734	1 Escape /Tribute / Mariner, MY12, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0752	1 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P0757	1 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0766	1 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0769	1 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P07A9	1 Escape /Tribute / Mariner, MY12, 3.0L	Transmission Friction Element "D" Stuck On	G+	CCM TRANS RATIO
P0974	1 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0983	1 Escape /Tribute / Mariner, MY12, 3.0L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P1105	1 Escape /Tribute / Mariner, MY12, 3.0L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P1106	1 Escape /Tribute / Mariner, MY12, 3.0L	Dual Alternator Lower Fault		CCM A/C, FAN, PS, GEN
P1116	1 Escape /Tribute / Mariner, MY12, 3.0L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1131	1 Escape /Tribute / Mariner, MY12, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1132	1 Escape /Tribute / Mariner, MY12, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1148	1 Escape /Tribute / Mariner, MY12, 3.0L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1151	1 Escape /Tribute / Mariner, MY12, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1152	1 Escape /Tribute / Mariner, MY12, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P115A	1 Escape /Tribute / Mariner, MY12, 3.0L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1233	1 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1235	1 Escape /Tribute / Mariner, MY12, 3.0L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1280	1 Escape /Tribute / Mariner, MY12, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1293	1 Escape /Tribute / Mariner, MY12, 3.0L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P132A	1 Escape /Tribute / Mariner, MY12, 3.0L	Turbocharger/Supercharger Boost Control "A" Electrical		BOOST CONTROL (COMPONENT)
P1335	1 Escape /Tribute / Mariner, MY12, 3.0L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1336	1 Escape /Tribute / Mariner, MY12, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1469	1 Escape /Tribute / Mariner, MY12, 3.0L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1536	1 Escape /Tribute / Mariner, MY12, 3.0L	Parking Brake Switch Circuit		CCM VEHICLE

P160A	1	Escape /Tribute / Mariner, MY12, 3.0L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P161A	1	Escape /Tribute / Mariner, MY12, 3.0L	Incorrect Response from Immobilizer Control Module	G	CCM VEHICLE
P1633	1	Escape /Tribute / Mariner, MY12, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P163E	1	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Control Module Programming Error	G*	CCM MODULE
P164A	1	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P2100	1	Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2104	1	Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2106	1	Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2110	1	Escape /Tribute / Mariner, MY12, 3.0L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2135	1	Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P2138	1	Escape /Tribute / Mariner, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2185	1	Escape /Tribute / Mariner, MY12, 3.0L	Engine Coolant Temperature Sensor 2 Circuit High	G*	CCM TEMP
P2271	1	Escape /Tribute / Mariner, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2290	1	Escape /Tribute / Mariner, MY12, 3.0L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P2425	1	Escape /Tribute / Mariner, MY12, 3.0L	EGR Cooling Valve Control Circuit/Open		EGR (COMPONENT)
P2455	1	Escape /Tribute / Mariner, MY12, 3.0L	Particulate Filter Pressure Sensor "A" Circuit High		PM FILTER (COMPONENT)
P252F	1	Escape /Tribute / Mariner, MY12, 3.0L	Engine Oil Level Too High		NO-FAULT CODES
P2703	1	Escape /Tribute / Mariner, MY12, 3.0L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2783	1	Escape /Tribute / Mariner, MY12, 3.0L	Torque Converter Temperature Too High	G*	CCM TRANS TCC
U0101	1	Escape /Tribute / Mariner, MY12, 3.0L	Lost Communication with TCM	G*	NETWORK COMM
U0121	1	Escape /Tribute / Mariner, MY12, 3.0L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0422	1	Escape /Tribute / Mariner, MY12, 3.0L	Invalid Data Received from Body Control Module	G	NETWORK COMM
U210B	1	Escape /Tribute / Mariner, MY12, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P2111	4634	Fusion, MY10, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
U0155	3975	Fusion, MY10, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
U0111	3709	Fusion, MY10, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
U0129	3696	Fusion, MY10, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
U0101	3593	Fusion, MY10, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P0A18	3451	Fusion, MY10, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	3432	Fusion, MY10, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P060A	3335	Fusion, MY10, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0455	2632	Fusion, MY10, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0456	2391	Fusion, MY10, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P2112	2061	Fusion, MY10, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P1602	2039	Fusion, MY10, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0735	1685	Fusion, MY10, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0457	1670	Fusion, MY10, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P0685	1623	Fusion, MY10, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P144A	1579	Fusion, MY10, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1260	1521	Fusion, MY10, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	1521	Fusion, MY10, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0A7C	1459	Fusion, MY10, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P0442	1336	Fusion, MY10, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P2196	1271	Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1464	1211	Fusion, MY10, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0102	1120	Fusion, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0130	1064	Fusion, MY10, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P061A	1058	Fusion, MY10, 2.5L	Internal Control Module Torque Performance	G+	ETC (SYSTEM)
P0122	1045	Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	1022	Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)

P0113	989	Fusion, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P1288	923	Fusion, MY10, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0316	916	Fusion, MY10, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1A1B	860	Fusion, MY10, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P1A14	819	Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P0562	748	Fusion, MY10, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P1A10	661	Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P0722	598	Fusion, MY10, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P260F	572	Fusion, MY10, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0400	562	Fusion, MY10, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P1780	543	Fusion, MY10, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P2195	541	Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1A0C	537	Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P1703	516	Fusion, MY10, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P1450	510	Fusion, MY10, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P06B8	509	Fusion, MY10, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P1285	489	Fusion, MY10, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0720	473	Fusion, MY10, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
U210B	467	Fusion, MY10, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0443	458	Fusion, MY10, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P1783	445	Fusion, MY10, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0171	444	Fusion, MY10, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0732	444	Fusion, MY10, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P1921	418	Fusion, MY10, 2.5L	Transmission Range Signal	G	NETWORK COMM
P1299	408	Fusion, MY10, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0301	389	Fusion, MY10, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0300	383	Fusion, MY10, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0706	369	Fusion, MY10, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P2101	337	Fusion, MY10, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0707	333	Fusion, MY10, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0135	331	Fusion, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P1622	326	Fusion, MY10, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0480	324	Fusion, MY10, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0729	322	Fusion, MY10, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P2450	315	Fusion, MY10, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0420	310	Fusion, MY10, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P1289	306	Fusion, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
U0418	295	Fusion, MY10, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P0733	284	Fusion, MY10, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0625	279	Fusion, MY10, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0867	276	Fusion, MY10, 2.5L	Transmission Fluid Pressure	G+	CCM TRANS SYSTEM
P1101	275	Fusion, MY10, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P0304	265	Fusion, MY10, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0353	252	Fusion, MY10, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0463	238	Fusion, MY10, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0403	237	Fusion, MY10, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0600	231	Fusion, MY10, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P0104	228	Fusion, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0219	223	Fusion, MY10, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P1124	223	Fusion, MY10, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)

P0451	221	Fusion, MY10, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0505	216	Fusion, MY10, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P0010	212	Fusion, MY10, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0C2F	207	Fusion, MY10, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P1702	207	Fusion, MY10, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0302	199	Fusion, MY10, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P052B	197	Fusion, MY10, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0352	196	Fusion, MY10, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0141	195	Fusion, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0717	191	Fusion, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0341	190	Fusion, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0351	187	Fusion, MY10, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0303	184	Fusion, MY10, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0446	184	Fusion, MY10, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1397	175	Fusion, MY10, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P2627	174	Fusion, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P2135	166	Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0715	160	Fusion, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P2704	154	Fusion, MY10, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0690	151	Fusion, MY10, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0030	146	Fusion, MY10, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0620	139	Fusion, MY10, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0203	136	Fusion, MY10, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0773	134	Fusion, MY10, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P0340	132	Fusion, MY10, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0767	131	Fusion, MY10, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0016	128	Fusion, MY10, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0770	128	Fusion, MY10, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0710	126	Fusion, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0202	125	Fusion, MY10, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	125	Fusion, MY10, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
U0109	125	Fusion, MY10, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0354	123	Fusion, MY10, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P1705	119	Fusion, MY10, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P068A	118	Fusion, MY10, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P052A	115	Fusion, MY10, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0201	114	Fusion, MY10, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0731	112	Fusion, MY10, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0A03	108	Fusion, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P1711	103	Fusion, MY10, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0297	102	Fusion, MY10, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0533	98	Fusion, MY10, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P07AA	98	Fusion, MY10, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P2127	98	Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0106	97	Fusion, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P2122	95	Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P025A	94	Fusion, MY10, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0645	93	Fusion, MY10, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0222	90	Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0753	86	Fusion, MY10, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR

P0627	85 Fusion, MY10, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0743	84 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0344	81 Fusion, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0763	79 Fusion, MY10, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0A7D	79 Fusion, MY10, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
P073A	78 Fusion, MY10, 2.5L	Stuck in Gear 5		CCM TRANS RATIO
P0581	77 Fusion, MY10, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0748	76 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0768	76 Fusion, MY10, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P1639	76 Fusion, MY10, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0657	75 Fusion, MY10, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0758	74 Fusion, MY10, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0128	73 Fusion, MY10, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0109	71 Fusion, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0108	69 Fusion, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P072F	69 Fusion, MY10, 2.5L	Stuck in Gear 4		CCM TRANS RATIO
P073B	69 Fusion, MY10, 2.5L	Stuck in Gear 6		CCM TRANS RATIO
P0756	69 Fusion, MY10, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0708	68 Fusion, MY10, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0713	68 Fusion, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P2279	67 Fusion, MY10, 2.5L	Intake Air System Leak	G*	FUEL (SYSTEM)
P2107	66 Fusion, MY10, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
U0300	66 Fusion, MY10, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P061C	65 Fusion, MY10, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0579	59 Fusion, MY10, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0740	56 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0960	56 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P1635	56 Fusion, MY10, 2.5L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P0750	54 Fusion, MY10, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0765	53 Fusion, MY10, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P061B	52 Fusion, MY10, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P2270	51 Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0174	50 Fusion, MY10, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0689	49 Fusion, MY10, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0760	49 Fusion, MY10, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P2418	48 Fusion, MY10, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P2701	48 Fusion, MY10, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P1408	47 Fusion, MY10, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P0755	46 Fusion, MY10, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P2535	46 Fusion, MY10, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
P1145	45 Fusion, MY10, 2.5L	Calculated Torque Error	G	ETC (SYSTEM)
P128A	45 Fusion, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P2096	45 Fusion, MY10, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2138	45 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2702	45 Fusion, MY10, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0460	44 Fusion, MY10, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0512	41 Fusion, MY10, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0605	41 Fusion, MY10, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0133	39 Fusion, MY10, 2.5L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0607	39 Fusion, MY10, 2.5L	Control Module Performance	G*	CCM MODULE

P2600	39 Fusion, MY10, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P0A00	38 Fusion, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P1744	38 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P0053	37 Fusion, MY10, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0401	37 Fusion, MY10, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P1633	36 Fusion, MY10, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P0131	34 Fusion, MY10, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0172	33 Fusion, MY10, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0741	33 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0068	32 Fusion, MY10, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0453	31 Fusion, MY10, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0734	31 Fusion, MY10, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0111	30 Fusion, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P2291	30 Fusion, MY10, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P0123	29 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0148	29 Fusion, MY10, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0320	29 Fusion, MY10, 2.5L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0603	29 Fusion, MY10, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0774	27 Fusion, MY10, 2.5L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P0979	27 Fusion, MY10, 2.5L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0404	26 Fusion, MY10, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P060C	26 Fusion, MY10, 2.5L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P0712	26 Fusion, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0405	25 Fusion, MY10, 2.5L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0611	25 Fusion, MY10, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P0973	25 Fusion, MY10, 2.5L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	25 Fusion, MY10, 2.5L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0528	24 Fusion, MY10, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0962	24 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0976	24 Fusion, MY10, 2.5L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P2617	24 Fusion, MY10, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2700	24 Fusion, MY10, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0054	23 Fusion, MY10, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0276	23 Fusion, MY10, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	23 Fusion, MY10, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P2614	23 Fusion, MY10, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P0261	22 Fusion, MY10, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0264	22 Fusion, MY10, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	22 Fusion, MY10, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	22 Fusion, MY10, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	22 Fusion, MY10, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0307	22 Fusion, MY10, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0500	22 Fusion, MY10, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	22 Fusion, MY10, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0742	22 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P1184	22 Fusion, MY10, 2.5L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1501	22 Fusion, MY10, 2.5L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0012	21 Fusion, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0266	21 Fusion, MY10, 2.5L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0270	21 Fusion, MY10, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)

P0282	21 Fusion, MY10, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0305	21 Fusion, MY10, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0308	21 Fusion, MY10, 2.5L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0563	21 Fusion, MY10, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0A05	21 Fusion, MY10, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P1127	21 Fusion, MY10, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1575	21 Fusion, MY10, 2.5L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P1536	20 Fusion, MY10, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P2285	20 Fusion, MY10, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
B1342	19 Fusion, MY10, 2.5L	ECU is Faulted	G	CCM MODULE
B1342	19 Fusion, MY10, 2.5L	ECU Is Faulted	G	CCM MODULE
B1342	19 Fusion, MY10, 2.5L	ECU is Faulted		CCM VEHICLE
P025B	19 Fusion, MY10, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0000	18 Fusion, MY10, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0138	18 Fusion, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0269	18 Fusion, MY10, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0284	18 Fusion, MY10, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P060D	18 Fusion, MY10, 2.5L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
P0642	18 Fusion, MY10, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P2104	18 Fusion, MY10, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2110	18 Fusion, MY10, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2802	18 Fusion, MY10, 2.5L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
P0132	17 Fusion, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P013A	17 Fusion, MY10, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P1290	17 Fusion, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P2198	17 Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2290	17 Fusion, MY10, 2.5L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P0272	16 Fusion, MY10, 2.5L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0275	16 Fusion, MY10, 2.5L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0306	16 Fusion, MY10, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P1378	16 Fusion, MY10, 2.5L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1910	16 Fusion, MY10, 2.5L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2801	16 Fusion, MY10, 2.5L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
B1601	15 Fusion, MY10, 2.5L	Unprogrammed PATS Key		CCM VEHICLE
P0046	15 Fusion, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0191	15 Fusion, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0470	15 Fusion, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0472	15 Fusion, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0677	15 Fusion, MY10, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	15 Fusion, MY10, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P1116	15 Fusion, MY10, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P2806	15 Fusion, MY10, 2.5L	Transmission Range Sensor Alignment	G	CCM TRANS SENSOR
P0678	14 Fusion, MY10, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0703	14 Fusion, MY10, 2.5L	Brake Switch "B" Circuit		CCM VEHICLE
P132B	14 Fusion, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1335	14 Fusion, MY10, 2.5L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1500	14 Fusion, MY10, 2.5L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P2269	14 Fusion, MY10, 2.5L	Water in Fuel Condition		NO-FAULT CODES
P2705	14 Fusion, MY10, 2.5L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0101	13 Fusion, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO

P0114	13 Fusion, MY10, 2.5L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P064D	13 Fusion, MY10, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P2128	13 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2197	13 Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2263	13 Fusion, MY10, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2703	13 Fusion, MY10, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0087	12 Fusion, MY10, 2.5L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0278	12 Fusion, MY10, 2.5L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0430	12 Fusion, MY10, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P050B	12 Fusion, MY10, 2.5L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0673	12 Fusion, MY10, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0761	12 Fusion, MY10, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P115A	12 Fusion, MY10, 2.5L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1646	12 Fusion, MY10, 2.5L	Linear O2 Sensor Control Chip (Bank 1)	G	HO2S (COMPONENT)
P2106	12 Fusion, MY10, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2271	12 Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2800	12 Fusion, MY10, 2.5L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
P0155	11 Fusion, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0231	11 Fusion, MY10, 2.5L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0232	11 Fusion, MY10, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0670	11 Fusion, MY10, 2.5L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0675	11 Fusion, MY10, 2.5L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0752	11 Fusion, MY10, 2.5L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P0754	11 Fusion, MY10, 2.5L	Shift Solenoid "A" Intermittent	G+	CCM TRANS ACTUATOR
P0757	11 Fusion, MY10, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P1233	11 Fusion, MY10, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1709	11 Fusion, MY10, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
U0105	11 Fusion, MY10, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
B1600	10 Fusion, MY10, 2.5L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0088	10 Fusion, MY10, 2.5L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0116	10 Fusion, MY10, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0193	10 Fusion, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0263	10 Fusion, MY10, 2.5L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0402	10 Fusion, MY10, 2.5L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P050E	10 Fusion, MY10, 2.5L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0626	10 Fusion, MY10, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0671	10 Fusion, MY10, 2.5L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	10 Fusion, MY10, 2.5L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P072E	10 Fusion, MY10, 2.5L	Stuck in Gear 3		CCM TRANS RATIO
P0751	10 Fusion, MY10, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0772	10 Fusion, MY10, 2.5L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P1316	10 Fusion, MY10, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P0020	9 Fusion, MY10, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0198	9 Fusion, MY10, 2.5L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0336	9 Fusion, MY10, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0568	9 Fusion, MY10, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	9 Fusion, MY10, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P0622	9 Fusion, MY10, 2.5L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P0701	9 Fusion, MY10, 2.5L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0766	9 Fusion, MY10, 2.5L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO

P1670	9 Fusion, MY10, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P2100	9 Fusion, MY10, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2783	9 Fusion, MY10, 2.5L	Torque Converter Temperature Too High	G*	CCM TRANS TCC
U0306	9 Fusion, MY10, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
P0112	8 Fusion, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	CCM TEMP
P0118	8 Fusion, MY10, 2.5L	Engine Coolant Temperature Sensor 1 Circuit High	G*	CCM TEMP
P0153	8 Fusion, MY10, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0206	8 Fusion, MY10, 2.5L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0234	8 Fusion, MY10, 2.5L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0476	8 Fusion, MY10, 2.5L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0532	8 Fusion, MY10, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0565	8 Fusion, MY10, 2.5L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	8 Fusion, MY10, 2.5L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	8 Fusion, MY10, 2.5L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0984	8 Fusion, MY10, 2.5L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1151	8 Fusion, MY10, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P115E	8 Fusion, MY10, 2.5L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P1211	8 Fusion, MY10, 2.5L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1272	8 Fusion, MY10, 2.5L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	8 Fusion, MY10, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2262	8 Fusion, MY10, 2.5L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P246C	8 Fusion, MY10, 2.5L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2623	8 Fusion, MY10, 2.5L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
P2760	8 Fusion, MY10, 2.5L	Torque Converter Clutch Pressure Control Solenoid Intermittent	G	CCM TRANS ACTUATOR
P0121	7 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P0161	7 Fusion, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0221	7 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0325	7 Fusion, MY10, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P040D	7 Fusion, MY10, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0478	7 Fusion, MY10, 2.5L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0643	7 Fusion, MY10, 2.5L	Sensor Reference Voltage "A" Circuit High	G*	CCM MODULE
P0672	7 Fusion, MY10, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	7 Fusion, MY10, 2.5L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0718	7 Fusion, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit Intermittent	G+	CCM TRANS SENSOR
P0721	7 Fusion, MY10, 2.5L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P1148	7 Fusion, MY10, 2.5L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1274	7 Fusion, MY10, 2.5L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	7 Fusion, MY10, 2.5L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1401	7 Fusion, MY10, 2.5L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P164A	7 Fusion, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P2006	7 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P2463	7 Fusion, MY10, 2.5L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
B1602	6 Fusion, MY10, 2.5L	Partial PATS Key was Read		CCM VEHICLE
P00B7	6 Fusion, MY10, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0100	6 Fusion, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P012F	6 Fusion, MY10, 2.5L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0150	6 Fusion, MY10, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0175	6 Fusion, MY10, 2.5L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0205	6 Fusion, MY10, 2.5L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0345	6 Fusion, MY10, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION

P0355	6 Fusion, MY10, 2.5L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0461	6 Fusion, MY10, 2.5L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0604	6 Fusion, MY10, 2.5L	Internal Control Module Random Access Memory (RAM) Error	G*	CCM MODULE
P062F	6 Fusion, MY10, 2.5L	Internal Control Module EEPROM Error	G	CCM MODULE
P0764	6 Fusion, MY10, 2.5L	Shift Solenoid "C" Intermittent	G+	CCM TRANS ACTUATOR
P0961	6 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit Range/Performance	G+	CCM TRANS ACTUATOR
P1102	6 Fusion, MY10, 2.5L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1131	6 Fusion, MY10, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1132	6 Fusion, MY10, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1277	6 Fusion, MY10, 2.5L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1293	6 Fusion, MY10, 2.5L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1294	6 Fusion, MY10, 2.5L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1636	6 Fusion, MY10, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P2452	6 Fusion, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2533	6 Fusion, MY10, 2.5L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P0098	5 Fusion, MY10, 2.5L	Intake Air Temperature Sensor 2 Circuit High (Bank 1)	G*	CCM TEMP
P0107	5 Fusion, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0190	5 Fusion, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P0196	5 Fusion, MY10, 2.5L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0237	5 Fusion, MY10, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0281	5 Fusion, MY10, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0462	5 Fusion, MY10, 2.5L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0487	5 Fusion, MY10, 2.5L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P050A	5 Fusion, MY10, 2.5L	Cold Start Idle Control System Performance	G*	CSER (COMPONENT)
P0700	5 Fusion, MY10, 2.5L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P07E1	5 Fusion, MY10, 2.5L	Incorrect Shift from Gear 6		CCM TRANS RATIO
P1246	5 Fusion, MY10, 2.5L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1271	5 Fusion, MY10, 2.5L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1273	5 Fusion, MY10, 2.5L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	5 Fusion, MY10, 2.5L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1282	5 Fusion, MY10, 2.5L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1336	5 Fusion, MY10, 2.5L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1469	5 Fusion, MY10, 2.5L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1507	5 Fusion, MY10, 2.5L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P163F	5 Fusion, MY10, 2.5L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P1A13	5 Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Regenerative Braking Disabled	G	HYBRID
P2287	5 Fusion, MY10, 2.5L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2610	5 Fusion, MY10, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2803	5 Fusion, MY10, 2.5L	Transmission Range Sensor "B" Circuit High	G	CCM TRANS SENSOR
B1213	4 Fusion, MY10, 2.5L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
B1681	4 Fusion, MY10, 2.5L	PATS Transceiver Signal Is Not Being Received by the PATS Control		CCM VEHICLE
P0011	4 Fusion, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0022	4 Fusion, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0059	4 Fusion, MY10, 2.5L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0069	4 Fusion, MY10, 2.5L	MAP - Barometric Pressure Correlation		CCM MAF/MAP/BARO
P006A	4 Fusion, MY10, 2.5L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P0335	4 Fusion, MY10, 2.5L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0380	4 Fusion, MY10, 2.5L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P0381	4 Fusion, MY10, 2.5L	Glow Plug/Heater Indicator Control Circuit/Open		CCM GLOW PLUG
P0481	4 Fusion, MY10, 2.5L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN

P0488	4 Fusion, MY10, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0571	4 Fusion, MY10, 2.5L	Brake Switch "A" Circuit	G	CCM VEHICLE
P060B	4 Fusion, MY10, 2.5L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P0759	4 Fusion, MY10, 2.5L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0762	4 Fusion, MY10, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0769	4 Fusion, MY10, 2.5L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P0771	4 Fusion, MY10, 2.5L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P07E4	4 Fusion, MY10, 2.5L	Unable to Engage Park	G	CCM TRANS RATIO
P1111	4 Fusion, MY10, 2.5L	System Pass		NO-FAULT CODES
P1152	4 Fusion, MY10, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P117B	4 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Correlation (Bank 1)		EXH GAS SENSOR (SYSTEM)
P1212	4 Fusion, MY10, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1237	4 Fusion, MY10, 2.5L	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1270	4 Fusion, MY10, 2.5L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1276	4 Fusion, MY10, 2.5L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1451	4 Fusion, MY10, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1650	4 Fusion, MY10, 2.5L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1A0D	4 Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P200E	4 Fusion, MY10, 2.5L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P20E3	4 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E4	4 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2123	4 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2199	4 Fusion, MY10, 2.5L	Intake Air Temperature 1 / 2 Correlation		CCM TEMP
P242F	4 Fusion, MY10, 2.5L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P252F	4 Fusion, MY10, 2.5L	Engine Oil Level Too High		NO-FAULT CODES
P0136	3 Fusion, MY10, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P013E	3 Fusion, MY10, 2.5L	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0356	3 Fusion, MY10, 2.5L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0452	3 Fusion, MY10, 2.5L	EVAP System Pressure Sensor/Switch Low	G*	EVAP (COMPONENT)
P0475	3 Fusion, MY10, 2.5L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0541	3 Fusion, MY10, 2.5L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P065B	3 Fusion, MY10, 2.5L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0745	3 Fusion, MY10, 2.5L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P07E0	3 Fusion, MY10, 2.5L	Incorrect Shift from Gear 5		CCM TRANS RATIO
P0A02	3 Fusion, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit Low	G	HYBRID
P1001	3 Fusion, MY10, 2.5L	KOER Not Able to Complete, KOER Aborted		NO-FAULT CODES
P1105	3 Fusion, MY10, 2.5L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P1119	3 Fusion, MY10, 2.5L	Manifold Air Temperature Circuit High		CCM TEMP
P1157	3 Fusion, MY10, 2.5L	Lack Of HO2S22 Switches - Sensor Indicates Lean		HO2S (SYSTEM)
P1209	3 Fusion, MY10, 2.5L	Injector Control Pressure Peak Delta Test Fault		FUEL (COMPONENT)
P1210	3 Fusion, MY10, 2.5L	Injector Control Pressure Higher Than Desired (engine off)		FUEL (COMPONENT)
P1235	3 Fusion, MY10, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1309	3 Fusion, MY10, 2.5L	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*	CCM CKP/CMP/IGNITION
P1405	3 Fusion, MY10, 2.5L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1409	3 Fusion, MY10, 2.5L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P1489	3 Fusion, MY10, 2.5L	PCV Heater Control Circuit	G	PCV
P1504	3 Fusion, MY10, 2.5L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P1519	3 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1690	3 Fusion, MY10, 2.5L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P1747	3 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR

P1760	3 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Short Circuit Intermittent	G^	CCM TRANS ACTUATOR
P2002	3 Fusion, MY10, 2.5L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P200C	3 Fusion, MY10, 2.5L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P202D	3 Fusion, MY10, 2.5L	Reductant Leakage		NOX CATALYST (SYSTEM)
P2033	3 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2072	3 Fusion, MY10, 2.5L	Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
P2084	3 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P2098	3 Fusion, MY10, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P2105	3 Fusion, MY10, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P242D	3 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 3)		EXH GAS SENSOR (SYSTEM)
U0073	3 Fusion, MY10, 2.5L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0151	3 Fusion, MY10, 2.5L	Lost Communication With Restraints Control Module	G	NETWORK COMM
U0422	3 Fusion, MY10, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
B2103	2 Fusion, MY10, 2.5L	Antenna Not Connected		CCM VEHICLE
P0004	2 Fusion, MY10, 2.5L	Fuel Volume Regulator Control Circuit High	G*	FUEL (COMPONENT)
P0060	2 Fusion, MY10, 2.5L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0119	2 Fusion, MY10, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Intermittent/Erratic	G*	CCM TEMP
P0134	2 Fusion, MY10, 2.5L	O2 Sensor Circuit No Activity Detected (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0156	2 Fusion, MY10, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0181	2 Fusion, MY10, 2.5L	Fuel Temperature Sensor "A" Circuit Range/Performance		FUEL (COMPONENT)
P0183	2 Fusion, MY10, 2.5L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0230	2 Fusion, MY10, 2.5L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0238	2 Fusion, MY10, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit High	G*	BOOST CONTROL (COMPONENT)
P0265	2 Fusion, MY10, 2.5L	Cylinder 2 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0268	2 Fusion, MY10, 2.5L	Cylinder 3 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0274	2 Fusion, MY10, 2.5L	Cylinder 5 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0283	2 Fusion, MY10, 2.5L	Cylinder 8 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0298	2 Fusion, MY10, 2.5L	Engine Oil Over Temperature Condition	G*	ENGINE COOLING (SYSTEM)
P0346	2 Fusion, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0349	2 Fusion, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0357	2 Fusion, MY10, 2.5L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0358	2 Fusion, MY10, 2.5L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0410	2 Fusion, MY10, 2.5L	AIR System	G*	SEC AIR (SYSTEM)
P042F	2 Fusion, MY10, 2.5L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0454	2 Fusion, MY10, 2.5L	EVAP System Pressure Sensor/Switch Intermittent	G*	EVAP (COMPONENT)
P0471	2 Fusion, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0491	2 Fusion, MY10, 2.5L	AIR System Insufficient Flow (Bank 1)	G*	SEC AIR (SYSTEM)
P0506	2 Fusion, MY10, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0507	2 Fusion, MY10, 2.5L	Idle Control System - RPM Higher Than Expected	G*	CCM IDLE AIR CTRL
P0529	2 Fusion, MY10, 2.5L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P0573	2 Fusion, MY10, 2.5L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0606	2 Fusion, MY10, 2.5L	Control Module Processor	G*	CCM MODULE
P0610	2 Fusion, MY10, 2.5L	Control Module Vehicle Options Error	G	CCM MODULE
P0640	2 Fusion, MY10, 2.5L	Intake Air Heater Control Circuit		CCM GLOW PLUG
P072C	2 Fusion, MY10, 2.5L	Stuck in Gear 1		CCM TRANS RATIO
P0744	2 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Intermittent	G*	CCM TRANS ACTUATOR
P0775	2 Fusion, MY10, 2.5L	Pressure Control Solenoid B	G*	CCM TRANS ACTUATOR
P07A5	2 Fusion, MY10, 2.5L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO
P0980	2 Fusion, MY10, 2.5L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P0983	2 Fusion, MY10, 2.5L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR

P1100	2 Fusion, MY10, 2.5L	Mass Air Flow Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P1120	2 Fusion, MY10, 2.5L	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	ETC (COMPONENT)
P1125	2 Fusion, MY10, 2.5L	Throttle Position Sensor "A" Intermittent	G	ETC (COMPONENT)
P1249	2 Fusion, MY10, 2.5L	Wastegate Control Valve "A" Performance		BOOST CONTROL (SYSTEM)
P1298	2 Fusion, MY10, 2.5L	Injector Driver Module Failure		FUEL (COMPONENT)
P1379	2 Fusion, MY10, 2.5L	Fuel Injector Control Module System Voltage High		FUEL (COMPONENT)
P1381	2 Fusion, MY10, 2.5L	Camshaft Position Timing Over Advanced (Bank 1)	G*	VVT (SYSTEM)
P1400	2 Fusion, MY10, 2.5L	Differential Pressure Feedback EGR Circuit Low	G*	EGR (COMPONENT)
P1437	2 Fusion, MY10, 2.5L	A/C Evaporator Air Temperature Circuit High	G	CCM A/C, FAN, PS, GEN
P1460	2 Fusion, MY10, 2.5L	Wide Open Throttle A/C Cutout Circuit	G	CCM A/C, FAN, PS, GEN
P1502	2 Fusion, MY10, 2.5L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1506	2 Fusion, MY10, 2.5L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1531	2 Fusion, MY10, 2.5L	Invalid Test - Accelerator Pedal Movement		NO-FAULT CODES
P1537	2 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P1538	2 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 2)	G*	CCM IMRC/IMCC
P1565	2 Fusion, MY10, 2.5L	Speed Control Command Switch Out Of Range High	G	CCM VEHICLE
P160A	2 Fusion, MY10, 2.5L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P1742	2 Fusion, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Failed On	G*	CCM TRANS TCC
P1754	2 Fusion, MY10, 2.5L	Coast Clutch Solenoid Circuit	G^	CCM TRANS ACTUATOR
P179A	2 Fusion, MY10, 2.5L	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction		BOOST CONTROL (COMPONENT)
P193C	2 Fusion, MY10, 2.5L	Steering Wheel Angle Signal	G	NETWORK COMM
P1A0E	2 Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Motor Disabled	G	HYBRID
P1A0F	2 Fusion, MY10, 2.5L	Hybrid Powertrain Control Module - Vehicle Disabled	G	HYBRID
P2004	2 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P2080	2 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P20E8	2 Fusion, MY10, 2.5L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2139	2 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2140	2 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2284	2 Fusion, MY10, 2.5L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2289	2 Fusion, MY10, 2.5L	Injector Control Pressure Too High - Engine Off		FUEL (COMPONENT)
P242B	2 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P242E	2 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P2459	2 Fusion, MY10, 2.5L	Particulate Filter Regeneration Frequency (Bank 1)		PM FILTER (SYSTEM)
U0104	2 Fusion, MY10, 2.5L	Lost Communication With Cruise Control Module	G	NETWORK COMM
U0121	2 Fusion, MY10, 2.5L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U1051	2 Fusion, MY10, 2.5L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
B2431	1 Fusion, MY10, 2.5L	Key Programming Error		CCM VEHICLE
P006B	1 Fusion, MY10, 2.5L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P0073	1 Fusion, MY10, 2.5L	Ambient Air Temperature Sensor Circuit "A" High	G*	CCM TEMP
P008D	1 Fusion, MY10, 2.5L	Fuel Cooler Pump Control Circuit Low		FUEL (COMPONENT)
P0091	1 Fusion, MY10, 2.5L	Fuel Pressure Regulator Control Circuit Low		FUEL (COMPONENT)
P0097	1 Fusion, MY10, 2.5L	Intake Air Temperature Sensor 2 Circuit Low (Bank 1)	G*	CCM TEMP
P0103	1 Fusion, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0125	1 Fusion, MY10, 2.5L	Insufficient Coolant Temp For Closed Loop Fuel Control	G*	ENGINE COOLING (SYSTEM)
P012D	1 Fusion, MY10, 2.5L	Turbocharger/Supercharger Inlet Pressure Sensor Circuit High	G*	BOOST CONTROL (COMPONENT)
P013C	1 Fusion, MY10, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0152	1 Fusion, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0179	1 Fusion, MY10, 2.5L	Fuel Composition Sensor Circuit High		FUEL (COMPONENT)
P0182	1 Fusion, MY10, 2.5L	Fuel Temperature Sensor "A" Circuit Low	G*	FUEL (COMPONENT)
P0194	1 Fusion, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit Intermittent/Erratic (Bank 1)	G	FUEL (COMPONENT)

P0208	1 Fusion, MY10, 2.5L	Cylinder 8 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0262	1 Fusion, MY10, 2.5L	Cylinder 1 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P026A	1 Fusion, MY10, 2.5L	Charge Air Cooler Efficiency Below Threshold		BOOST CONTROL (SYSTEM)
P0271	1 Fusion, MY10, 2.5L	Cylinder 4 Injector "A" Circuit High	G*	FUEL (COMPONENT)
P0277	1 Fusion, MY10, 2.5L	Cylinder 6 Injector "A" Circuit High	G	FUEL (COMPONENT)
P0280	1 Fusion, MY10, 2.5L	Cylinder 7 Injector "A" Circuit High	G	FUEL (COMPONENT)
P02E0	1 Fusion, MY10, 2.5L	Diesel Intake Air Flow Control Circuit/Open		EGR (COMPONENT)
P02E9	1 Fusion, MY10, 2.5L	Diesel Intake Air Flow Position Sensor Circuit High		EGR (COMPONENT)
P0310	1 Fusion, MY10, 2.5L	Cylinder 10 Misfire Detected	G*	MISFIRE (SYSTEM)
P0407	1 Fusion, MY10, 2.5L	EGR Sensor "B" Circuit Low		EGR (COMPONENT)
P0411	1 Fusion, MY10, 2.5L	AIR System Incorrect Flow Detected	G*	SEC AIR (SYSTEM)
P042E	1 Fusion, MY10, 2.5L	EGR "A" Control Stuck Open		EGR (COMPONENT)
P0482	1 Fusion, MY10, 2.5L	Fan 3 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0494	1 Fusion, MY10, 2.5L	Fan Speed Low		CCM A/C, FAN, PS, GEN
P04B1	1 Fusion, MY10, 2.5L	Refueling Vapor Control Valve Circuit Low		EVAP (COMPONENT)
P0503	1 Fusion, MY10, 2.5L	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G	CCM TRANS (NON-MIL)
P0511	1 Fusion, MY10, 2.5L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P0544	1 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P0546	1 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 1)		EXH GAS SENSOR (SYSTEM)
P054E	1 Fusion, MY10, 2.5L	Idle Control System - Fuel Quantity Lower Than Expected		FUEL (SYSTEM)
P0552	1 Fusion, MY10, 2.5L	Power Steering Pressure Sensor/Switch Circuit Low	G	CCM A/C, FAN, PS, GEN
P061F	1 Fusion, MY10, 2.5L	Internal Control Module Throttle Actuator Controller Performance	G*+	ETC (SYSTEM)
P0623	1 Fusion, MY10, 2.5L	Generator Lamp Control Circuit		CCM A/C, FAN, PS, GEN
P0649	1 Fusion, MY10, 2.5L	Cruise Control Lamp Control Circuit		CCM VEHICLE
P0684	1 Fusion, MY10, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P0705	1 Fusion, MY10, 2.5L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0730	1 Fusion, MY10, 2.5L	Incorrect Gear Ratio		CCM TRANS RATIO
P0779	1 Fusion, MY10, 2.5L	Pressure Control Solenoid "B" Intermittent	G^	CCM TRANS ACTUATOR
P0781	1 Fusion, MY10, 2.5L	1-2 Shift	G^	CCM TRANS RATIO
P0782	1 Fusion, MY10, 2.5L	2-3 Shift	G^	CCM TRANS RATIO
P0791	1 Fusion, MY10, 2.5L	Intermediate Shaft Speed Sensor "A" Circuit	G^	CCM TRANS SENSOR
P0793	1 Fusion, MY10, 2.5L	Intermediate Shaft Speed Sensor "A" Circuit No Signal		CCM TRANS SENSOR
P0795	1 Fusion, MY10, 2.5L	Pressure Control Solenoid "C"	G*	CCM TRANS ACTUATOR
P0797	1 Fusion, MY10, 2.5L	Pressure Control Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0799	1 Fusion, MY10, 2.5L	Pressure Control Solenoid "C" Intermittent	G^	CCM TRANS ACTUATOR
P0963	1 Fusion, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0974	1 Fusion, MY10, 2.5L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P1106	1 Fusion, MY10, 2.5L	Dual Alternator Lower Fault		CCM A/C, FAN, PS, GEN
P1108	1 Fusion, MY10, 2.5L	Dual Alternator Battery Lamp Circuit		CCM A/C, FAN, PS, GEN
P1121	1 Fusion, MY10, 2.5L	Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor	G*	ETC (COMPONENT)
P1130	1 Fusion, MY10, 2.5L	Lack Of HO2S11 Switches - Fuel Trim At Limit	G*	HO2S (SYSTEM)
P1139	1 Fusion, MY10, 2.5L	Water in Fuel Indicator Circuit		CCM VEHICLE
P1150	1 Fusion, MY10, 2.5L	Lack Of HO2S21 Switches - Fuel Trim At Limit	G*	HO2S (SYSTEM)
P120F	1 Fusion, MY10, 2.5L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1219	1 Fusion, MY10, 2.5L	CID Low		CCM CKP/CMP/IGNITION
P1232	1 Fusion, MY10, 2.5L	Fuel Pump Speed Primary Circuit (Two speed fuel pump)	G	FUEL (COMPONENT)
P1247	1 Fusion, MY10, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1267	1 Fusion, MY10, 2.5L	Cylinder 7 High To Low Side Short	G*	FUEL (COMPONENT)
P1291	1 Fusion, MY10, 2.5L	Injector High Side Short To GND Or VBATT (Bank 1)		FUEL (COMPONENT)
P1334	1 Fusion, MY10, 2.5L	EGR Throttle Position Sensor Minimum/Maximum Stop Performance		EGR (COMPONENT)

P1380	1 Fusion, MY10, 2.5L	Camshaft Position Actuator Circuit (Bank 1)	G*	VVT (COMPONENT)
P1391	1 Fusion, MY10, 2.5L	Glow Plug Circuit Low (Bank 1)		CCM GLOW PLUG
P1393	1 Fusion, MY10, 2.5L	Glow Plug Circuit Low (Bank 2)		CCM GLOW PLUG
P1406	1 Fusion, MY10, 2.5L	Differential Pressure Feedback Sensor Downstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P142A	1 Fusion, MY10, 2.5L	Conditions Incorrect for Secondary Air Self Test		#N/A
P1443	1 Fusion, MY10, 2.5L	EVAP System Control Valve (low/no flow)	G*	MONITOR - EVAP (SYSTEM)
P1459	1 Fusion, MY10, 2.5L	A/C Recirculation Switch Out of Self Test Range		CCM A/C, FAN, PS, GEN
P1474	1 Fusion, MY10, 2.5L	Fan Control Primary Circuit	G	CCM A/C, FAN, PS, GEN
P1518	1 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P1520	1 Fusion, MY10, 2.5L	Intake Manifold Runner Control Circuit	G*	CCM IMRC/IMCC
P1550	1 Fusion, MY10, 2.5L	Power Steering Pressure Sensor Out Of Self Test Range	G	CCM A/C, FAN, PS, GEN
P1568	1 Fusion, MY10, 2.5L	Speed Control Unable to Hold Speed		CCM VEHICLE
P162E	1 Fusion, MY10, 2.5L	Internal Control Module PTO Control Performance		ETC (SYSTEM)
P163C	1 Fusion, MY10, 2.5L	Generator "B" Field Terminal Circuit Low		CCM A/C, FAN, PS, GEN
P1714	1 Fusion, MY10, 2.5L	Shift Solenoid "A" Inductive Signature	G*	CCM TRANS ACTUATOR
P1725	1 Fusion, MY10, 2.5L	Insufficient Engine Speed Increase During Self Test		CCM TRANS SYSTEM
P1728	1 Fusion, MY10, 2.5L	Transmission Slip	G^	CCM TRANS RATIO
P174E	1 Fusion, MY10, 2.5L	Output Shaft Speed / ABS Wheel Speed Correlation	[G]	CCM TRANS SENSOR
P1789	1 Fusion, MY10, 2.5L	Pressure Control Solenoid "B" Short Circuit	G^	CCM TRANS ACTUATOR
P1934	1 Fusion, MY10, 2.5L	Vehicle Speed Signal	G*	NETWORK COMM
P193D	1 Fusion, MY10, 2.5L	Cruise Control Multi-Function Input Signal	G	NETWORK COMM
P2007	1 Fusion, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 2)	G	CCM IMRC/IMCC
P2031	1 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P2032	1 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Low (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2043	1 Fusion, MY10, 2.5L	Reductant Temperature Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P204F	1 Fusion, MY10, 2.5L	Reductant System Performance (Bank 1)		NOX CATALYST (COMPONENT)
P2068	1 Fusion, MY10, 2.5L	Fuel Level Sensor "B" Circuit High	G*	CCM FUEL LEVEL
P207F	1 Fusion, MY10, 2.5L	Reductant Quality Performance		NOX CATALYST (SYSTEM)
P2081	1 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P20BA	1 Fusion, MY10, 2.5L	Reductant Heater "A" Control Performance		NOX CATALYST (COMPONENT)
P20E2	1 Fusion, MY10, 2.5L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2121	1 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2126	1 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2131	1 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2132	1 Fusion, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P215A	1 Fusion, MY10, 2.5L	Vehicle Speed / Wheel Speed Correlation		CCM TRANS SENSOR
P215B	1 Fusion, MY10, 2.5L	Vehicle Speed / Output Shaft Speed Correlation		CCM TRANS SENSOR
P2176	1 Fusion, MY10, 2.5L	Throttle Actuator "A" Control System - Idle Position Not Learned	G*+	ETC (COMPONENT)
P2187	1 Fusion, MY10, 2.5L	Fuel Control System "A" Too Lean at Idle (Bank 1)		FUEL (SYSTEM)
P2200	1 Fusion, MY10, 2.5L	NOx Sensor Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2209	1 Fusion, MY10, 2.5L	NOx Sensor Heater Sense Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2273	1 Fusion, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2286	1 Fusion, MY10, 2.5L	Injector Control Pressure Sensor Circuit High		FUEL (COMPONENT)
P2425	1 Fusion, MY10, 2.5L	EGR Cooling Valve Control Circuit/Open		EGR (COMPONENT)
P2448	1 Fusion, MY10, 2.5L	AIR System High Air Flow (Bank 1)	G*	SEC AIR (SYSTEM)
P2453	1 Fusion, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P2456	1 Fusion, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit Intermittent/Erratic		PM FILTER (COMPONENT)
P249C	1 Fusion, MY10, 2.5L	Excessive Time To Enter Closed Loop Reductant Injection Control		NOX CATALYST (SYSTEM)
P2521	1 Fusion, MY10, 2.5L	A/C Request "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P2524	1 Fusion, MY10, 2.5L	A/C Request "B" Circuit High	G	CCM A/C, FAN, PS, GEN

P2531	1	Fusion, MY10, 2.5L	Ignition Switch Run Position Circuit Low	G	CCM VEHICLE
P2539	1	Fusion, MY10, 2.5L	Low Pressure Fuel System Sensor Circuit		FUEL (COMPONENT)
P2629	1	Fusion, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit/Open (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P2630	1	Fusion, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
U0102	1	Fusion, MY10, 2.5L	Lost Communication with Transfer Case Control Module		NETWORK COMM
U0106	1	Fusion, MY10, 2.5L	Lost Communication With Glow Plug Control Module 1		CCM GLOW PLUG
U0140	1	Fusion, MY10, 2.5L	Lost Communication With Body Control Module	G	NETWORK COMM
U0212	1	Fusion, MY10, 2.5L	Lost Communication With Steering Column Control Module	G	NETWORK COMM
U029F	1	Fusion, MY10, 2.5L	Lost Communication With EVAP System Leak Detection Control Module	G*	EVAP (COMPONENT)
U0407	1	Fusion, MY10, 2.5L	Invalid Data Received from Glow Plug Control Module 1		CCM GLOW PLUG
U0426	1	Fusion, MY10, 2.5L	Invalid Data Received from Vehicle Immobilizer Control Module	G	#N/A
U1039	1	Fusion, MY10, 2.5L	SCP (J1850) Invalid or Missing Data for Vehicle Speed	G*	NETWORK COMM
U1262	1	Fusion, MY10, 2.5L	SCP (J1850) Communication Bus Fault		NETWORK COMM
U1262	1	Fusion, MY10, 2.5L	SCP (J1850) Communication Bus Fault	G	NETWORK COMM
P0456	3795	Fusion, MY10, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P2111	3187	Fusion, MY10, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P2112	2809	Fusion, MY10, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P0341	1228	Fusion, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0346	1114	Fusion, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0022	1055	Fusion, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0012	1034	Fusion, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P1602	1019	Fusion, MY10, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0122	916	Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	909	Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0685	753	Fusion, MY10, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P1464	747	Fusion, MY10, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0455	709	Fusion, MY10, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0735	684	Fusion, MY10, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0316	673	Fusion, MY10, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1260	623	Fusion, MY10, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	623	Fusion, MY10, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P2198	421	Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2196	409	Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0102	397	Fusion, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P1288	374	Fusion, MY10, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0113	365	Fusion, MY10, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0457	348	Fusion, MY10, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P2197	338	Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2101	333	Fusion, MY10, 3.0L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P2195	325	Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0443	258	Fusion, MY10, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P1703	254	Fusion, MY10, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P1124	252	Fusion, MY10, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0732	232	Fusion, MY10, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0505	226	Fusion, MY10, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P1783	214	Fusion, MY10, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P06B8	207	Fusion, MY10, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0104	192	Fusion, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0155	172	Fusion, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P260F	172	Fusion, MY10, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE

P1397	164	Fusion, MY10, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1285	161	Fusion, MY10, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
U210B	158	Fusion, MY10, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0300	146	Fusion, MY10, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P1622	140	Fusion, MY10, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0135	134	Fusion, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0722	125	Fusion, MY10, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0304	124	Fusion, MY10, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P1299	122	Fusion, MY10, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P1450	122	Fusion, MY10, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P1921	122	Fusion, MY10, 3.0L	Transmission Range Signal	G	NETWORK COMM
P0306	119	Fusion, MY10, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0729	118	Fusion, MY10, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P2630	111	Fusion, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0403	109	Fusion, MY10, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P2627	109	Fusion, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0020	108	Fusion, MY10, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0301	108	Fusion, MY10, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0706	108	Fusion, MY10, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0717	105	Fusion, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0305	102	Fusion, MY10, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0707	100	Fusion, MY10, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0767	99	Fusion, MY10, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P1127	98	Fusion, MY10, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P2704	94	Fusion, MY10, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0010	93	Fusion, MY10, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0715	92	Fusion, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0720	92	Fusion, MY10, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0303	91	Fusion, MY10, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0171	90	Fusion, MY10, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0733	89	Fusion, MY10, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0174	87	Fusion, MY10, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0302	84	Fusion, MY10, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0141	83	Fusion, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0451	83	Fusion, MY10, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0161	82	Fusion, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0480	81	Fusion, MY10, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0625	77	Fusion, MY10, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0297	72	Fusion, MY10, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P013A	71	Fusion, MY10, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P1289	71	Fusion, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P0627	70	Fusion, MY10, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0446	69	Fusion, MY10, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1489	63	Fusion, MY10, 3.0L	PCV Heater Control Circuit	G	PCV
P0345	58	Fusion, MY10, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P1702	55	Fusion, MY10, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0206	54	Fusion, MY10, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0356	54	Fusion, MY10, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0731	54	Fusion, MY10, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P1705	54	Fusion, MY10, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR

P1711	54 Fusion, MY10, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0175	52 Fusion, MY10, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0349	52 Fusion, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P073A	51 Fusion, MY10, 3.0L	Stuck in Gear 5		CCM TRANS RATIO
P0340	50 Fusion, MY10, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P07AA	50 Fusion, MY10, 3.0L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P2135	50 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0153	48 Fusion, MY10, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0172	48 Fusion, MY10, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0355	47 Fusion, MY10, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P060A	47 Fusion, MY10, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P144A	47 Fusion, MY10, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P0133	46 Fusion, MY10, 3.0L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P072F	46 Fusion, MY10, 3.0L	Stuck in Gear 4		CCM TRANS RATIO
P073B	46 Fusion, MY10, 3.0L	Stuck in Gear 6		CCM TRANS RATIO
P2122	45 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2127	45 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
U0109	45 Fusion, MY10, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0054	44 Fusion, MY10, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0430	44 Fusion, MY10, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0620	44 Fusion, MY10, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0354	43 Fusion, MY10, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0710	40 Fusion, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0330	38 Fusion, MY10, 3.0L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0690	38 Fusion, MY10, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0108	37 Fusion, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0344	37 Fusion, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P025A	36 Fusion, MY10, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0645	35 Fusion, MY10, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0816	35 Fusion, MY10, 3.0L	Downshift Switch Circuit	G+	CCM TRANS SENSOR
P0815	34 Fusion, MY10, 3.0L	Upshift Switch Circuit	G+	CCM TRANS SENSOR
P1101	34 Fusion, MY10, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P0773	33 Fusion, MY10, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P2096	33 Fusion, MY10, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P0219	32 Fusion, MY10, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0770	32 Fusion, MY10, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0150	30 Fusion, MY10, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0222	30 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0353	30 Fusion, MY10, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P2270	30 Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0205	28 Fusion, MY10, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0743	27 Fusion, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0768	27 Fusion, MY10, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P0201	26 Fusion, MY10, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	26 Fusion, MY10, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0420	26 Fusion, MY10, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0657	26 Fusion, MY10, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0060	25 Fusion, MY10, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0352	25 Fusion, MY10, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0758	25 Fusion, MY10, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR

P2107	25 Fusion, MY10, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P0151	24 Fusion, MY10, 3.0L	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0533	24 Fusion, MY10, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0713	24 Fusion, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0748	24 Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0763	24 Fusion, MY10, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0130	22 Fusion, MY10, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0202	22 Fusion, MY10, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0351	22 Fusion, MY10, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0512	22 Fusion, MY10, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P061B	22 Fusion, MY10, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0030	20 Fusion, MY10, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0204	20 Fusion, MY10, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0463	20 Fusion, MY10, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0600	20 Fusion, MY10, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P0579	19 Fusion, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P2701	19 Fusion, MY10, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0050	18 Fusion, MY10, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0106	18 Fusion, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0109	18 Fusion, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0734	18 Fusion, MY10, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0753	18 Fusion, MY10, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0765	18 Fusion, MY10, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P115E	18 Fusion, MY10, 3.0L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P0581	17 Fusion, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0740	17 Fusion, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0960	17 Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P2138	17 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P0750	16 Fusion, MY10, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P1639	16 Fusion, MY10, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0011	15 Fusion, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0760	15 Fusion, MY10, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0325	14 Fusion, MY10, 3.0L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0607	14 Fusion, MY10, 3.0L	Control Module Performance	G*	CCM MODULE
P0741	14 Fusion, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0755	14 Fusion, MY10, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0756	14 Fusion, MY10, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P1635	14 Fusion, MY10, 3.0L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P2272	14 Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2273	14 Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0018	13 Fusion, MY10, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0708	13 Fusion, MY10, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P128A	13 Fusion, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1633	13 Fusion, MY10, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P2291	13 Fusion, MY10, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2700	13 Fusion, MY10, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0021	12 Fusion, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0284	12 Fusion, MY10, 3.0L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0400	12 Fusion, MY10, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0401	12 Fusion, MY10, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)

P0460	12	Fusion, MY10, 3.0L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P2702	12	Fusion, MY10, 3.0L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0128	11	Fusion, MY10, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P061C	11	Fusion, MY10, 3.0L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P1408	11	Fusion, MY10, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1744	11	Fusion, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2098	11	Fusion, MY10, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P0059	10	Fusion, MY10, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0123	10	Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0191	10	Fusion, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0269	10	Fusion, MY10, 3.0L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0605	10	Fusion, MY10, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0982	10	Fusion, MY10, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P2104	10	Fusion, MY10, 3.0L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P0016	9	Fusion, MY10, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0266	9	Fusion, MY10, 3.0L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0470	9	Fusion, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0528	9	Fusion, MY10, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0976	9	Fusion, MY10, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1233	9	Fusion, MY10, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P0053	8	Fusion, MY10, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0131	8	Fusion, MY10, 3.0L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0138	8	Fusion, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0404	8	Fusion, MY10, 3.0L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0405	8	Fusion, MY10, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0442	8	Fusion, MY10, 3.0L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0500	8	Fusion, MY10, 3.0L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	8	Fusion, MY10, 3.0L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0603	8	Fusion, MY10, 3.0L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0742	8	Fusion, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0962	8	Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	8	Fusion, MY10, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1211	8	Fusion, MY10, 3.0L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1910	8	Fusion, MY10, 3.0L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2110	8	Fusion, MY10, 3.0L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2269	8	Fusion, MY10, 3.0L	Water in Fuel Condition		NO-FAULT CODES
U0155	8	Fusion, MY10, 3.0L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
U0300	8	Fusion, MY10, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P025B	7	Fusion, MY10, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0261	7	Fusion, MY10, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0272	7	Fusion, MY10, 3.0L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0273	7	Fusion, MY10, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0320	7	Fusion, MY10, 3.0L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0336	7	Fusion, MY10, 3.0L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0472	7	Fusion, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0562	7	Fusion, MY10, 3.0L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0671	7	Fusion, MY10, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	7	Fusion, MY10, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0689	7	Fusion, MY10, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0752	7	Fusion, MY10, 3.0L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO

P1336	7 Fusion, MY10, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P2106	7 Fusion, MY10, 3.0L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2271	7 Fusion, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2285	7 Fusion, MY10, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2703	7 Fusion, MY10, 3.0L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0000	6 Fusion, MY10, 3.0L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0158	6 Fusion, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0232	6 Fusion, MY10, 3.0L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0267	6 Fusion, MY10, 3.0L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	6 Fusion, MY10, 3.0L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0276	6 Fusion, MY10, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	6 Fusion, MY10, 3.0L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	6 Fusion, MY10, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0402	6 Fusion, MY10, 3.0L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P0453	6 Fusion, MY10, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0461	6 Fusion, MY10, 3.0L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P060D	6 Fusion, MY10, 3.0L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
P0611	6 Fusion, MY10, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P0670	6 Fusion, MY10, 3.0L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0672	6 Fusion, MY10, 3.0L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	6 Fusion, MY10, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P068A	6 Fusion, MY10, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0751	6 Fusion, MY10, 3.0L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0761	6 Fusion, MY10, 3.0L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0774	6 Fusion, MY10, 3.0L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P1116	6 Fusion, MY10, 3.0L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1500	6 Fusion, MY10, 3.0L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1575	6 Fusion, MY10, 3.0L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P2128	6 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
B1601	5 Fusion, MY10, 3.0L	Unprogrammed PATS Key		CCM VEHICLE
P0107	5 Fusion, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0193	5 Fusion, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0263	5 Fusion, MY10, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0264	5 Fusion, MY10, 3.0L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0275	5 Fusion, MY10, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0279	5 Fusion, MY10, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0307	5 Fusion, MY10, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0626	5 Fusion, MY10, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0673	5 Fusion, MY10, 3.0L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	5 Fusion, MY10, 3.0L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	5 Fusion, MY10, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0701	5 Fusion, MY10, 3.0L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0712	5 Fusion, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P072E	5 Fusion, MY10, 3.0L	Stuck in Gear 3		CCM TRANS RATIO
P0766	5 Fusion, MY10, 3.0L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P115A	5 Fusion, MY10, 3.0L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1184	5 Fusion, MY10, 3.0L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1335	5 Fusion, MY10, 3.0L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P2100	5 Fusion, MY10, 3.0L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2263	5 Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)

P2617	5 Fusion, MY10, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
U0101	5 Fusion, MY10, 3.0L	Lost Communication with TCM	G*	NETWORK COMM
B1600	4 Fusion, MY10, 3.0L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0068	4 Fusion, MY10, 3.0L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0101	4 Fusion, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0118	4 Fusion, MY10, 3.0L	Engine Coolant Temperature Sensor 1 Circuit High	G*	CCM TEMP
P0121	4 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P0308	4 Fusion, MY10, 3.0L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0642	4 Fusion, MY10, 3.0L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0676	4 Fusion, MY10, 3.0L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	4 Fusion, MY10, 3.0L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0703	4 Fusion, MY10, 3.0L	Brake Switch "B" Circuit		CCM VEHICLE
P0757	4 Fusion, MY10, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0977	4 Fusion, MY10, 3.0L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P1131	4 Fusion, MY10, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1148	4 Fusion, MY10, 3.0L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1247	4 Fusion, MY10, 3.0L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1270	4 Fusion, MY10, 3.0L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1282	4 Fusion, MY10, 3.0L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1636	4 Fusion, MY10, 3.0L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P163F	4 Fusion, MY10, 3.0L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P164A	4 Fusion, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P1670	4 Fusion, MY10, 3.0L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P2068	4 Fusion, MY10, 3.0L	Fuel Level Sensor "B" Circuit High	G*	CCM FUEL LEVEL
P2123	4 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2614	4 Fusion, MY10, 3.0L	Camshaft Position Output Circuit/Open		CCM MODULE
U0422	4 Fusion, MY10, 3.0L	Invalid Data Received from Body Control Module	G	NETWORK COMM
P0087	3 Fusion, MY10, 3.0L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0132	3 Fusion, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0198	3 Fusion, MY10, 3.0L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0234	3 Fusion, MY10, 3.0L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0278	3 Fusion, MY10, 3.0L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0358	3 Fusion, MY10, 3.0L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0476	3 Fusion, MY10, 3.0L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0478	3 Fusion, MY10, 3.0L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0488	3 Fusion, MY10, 3.0L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0532	3 Fusion, MY10, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0563	3 Fusion, MY10, 3.0L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0568	3 Fusion, MY10, 3.0L	Cruise Control SET Signal	G	CCM VEHICLE
P0606	3 Fusion, MY10, 3.0L	Control Module Processor	G*	CCM MODULE
P0643	3 Fusion, MY10, 3.0L	Sensor Reference Voltage "A" Circuit High	G*	CCM MODULE
P0705	3 Fusion, MY10, 3.0L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0721	3 Fusion, MY10, 3.0L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P0973	3 Fusion, MY10, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1290	3 Fusion, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1378	3 Fusion, MY10, 3.0L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1451	3 Fusion, MY10, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1501	3 Fusion, MY10, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1709	3 Fusion, MY10, 3.0L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P1A0D	3 Fusion, MY10, 3.0L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID

P2002	3 Fusion, MY10, 3.0L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2105	3 Fusion, MY10, 3.0L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2452	3 Fusion, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2610	3 Fusion, MY10, 3.0L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2783	3 Fusion, MY10, 3.0L	Torque Converter Temperature Too High	G*	CCM TRANS TCC
B1213	2 Fusion, MY10, 3.0L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
B1342	2 Fusion, MY10, 3.0L	ECU is Faulted	G	CCM MODULE
B1342	2 Fusion, MY10, 3.0L	ECU Is Faulted	G	CCM MODULE
B1342	2 Fusion, MY10, 3.0L	ECU is Faulted		CCM VEHICLE
P0003	2 Fusion, MY10, 3.0L	Fuel Volume Regulator Control Circuit Low	G*	FUEL (COMPONENT)
P0046	2 Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P008A	2 Fusion, MY10, 3.0L	Low Pressure Fuel System Pressure - Too Low	G	FUEL (SYSTEM)
P0100	2 Fusion, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0114	2 Fusion, MY10, 3.0L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P012F	2 Fusion, MY10, 3.0L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P013E	2 Fusion, MY10, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0181	2 Fusion, MY10, 3.0L	Fuel Temperature Sensor "A" Circuit Range/Performance		FUEL (COMPONENT)
P0208	2 Fusion, MY10, 3.0L	Cylinder 8 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0230	2 Fusion, MY10, 3.0L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0281	2 Fusion, MY10, 3.0L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0335	2 Fusion, MY10, 3.0L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0475	2 Fusion, MY10, 3.0L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0487	2 Fusion, MY10, 3.0L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0506	2 Fusion, MY10, 3.0L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0541	2 Fusion, MY10, 3.0L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0565	2 Fusion, MY10, 3.0L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	2 Fusion, MY10, 3.0L	Cruise Control OFF Signal	G	CCM VEHICLE
P0573	2 Fusion, MY10, 3.0L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P060B	2 Fusion, MY10, 3.0L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P0622	2 Fusion, MY10, 3.0L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P064D	2 Fusion, MY10, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P065B	2 Fusion, MY10, 3.0L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0700	2 Fusion, MY10, 3.0L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0764	2 Fusion, MY10, 3.0L	Shift Solenoid "C" Intermittent	G+	CCM TRANS ACTUATOR
P0769	2 Fusion, MY10, 3.0L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P0772	2 Fusion, MY10, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0867	2 Fusion, MY10, 3.0L	Transmission Fluid Pressure	G+	CCM TRANS SYSTEM
P0961	2 Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit Range/Performance	G+	CCM TRANS ACTUATOR
P0984	2 Fusion, MY10, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1111	2 Fusion, MY10, 3.0L	System Pass		NO-FAULT CODES
P1139	2 Fusion, MY10, 3.0L	Water in Fuel Indicator Circuit		CCM VEHICLE
P1151	2 Fusion, MY10, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1209	2 Fusion, MY10, 3.0L	Injector Control Pressure Peak Delta Test Fault		FUEL (COMPONENT)
P1235	2 Fusion, MY10, 3.0L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1249	2 Fusion, MY10, 3.0L	Wastegate Control Valve "A" Performance		BOOST CONTROL (SYSTEM)
P1280	2 Fusion, MY10, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1401	2 Fusion, MY10, 3.0L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1443	2 Fusion, MY10, 3.0L	EVAP System Control Valve (low/no flow)	G*	MONITOR - EVAP (SYSTEM)
P1469	2 Fusion, MY10, 3.0L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1502	2 Fusion, MY10, 3.0L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR

P1519	2 Fusion, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1536	2 Fusion, MY10, 3.0L	Parking Brake Switch Circuit		CCM VEHICLE
P1572	2 Fusion, MY10, 3.0L	Brake Pedal Switch Circuit	G	CCM VEHICLE
P1650	2 Fusion, MY10, 3.0L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1747	2 Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P1760	2 Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Short Circuit Intermittent	G^	CCM TRANS ACTUATOR
P179A	2 Fusion, MY10, 3.0L	CAN ECM/Turbocharger Boost Control "A" Actuator Circuit Malfunction		BOOST CONTROL (COMPONENT)
P1A0C	2 Fusion, MY10, 3.0L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P1A14	2 Fusion, MY10, 3.0L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P200E	2 Fusion, MY10, 3.0L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P207F	2 Fusion, MY10, 3.0L	Reductant Quality Performance		NOX CATALYST (SYSTEM)
P2084	2 Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P20E3	2 Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2131	2 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2132	2 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P2290	2 Fusion, MY10, 3.0L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P244A	2 Fusion, MY10, 3.0L	Particulate Filter Differential Pressure Too Low (Bank 1)		PM FILTER (SYSTEM)
P2453	2 Fusion, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P249C	2 Fusion, MY10, 3.0L	Excessive Time To Enter Closed Loop Reductant Injection Control		NOX CATALYST (SYSTEM)
P2623	2 Fusion, MY10, 3.0L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
P2631	2 Fusion, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit High (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
U0129	2 Fusion, MY10, 3.0L	Lost Communication With Brake System Control Module	G	NETWORK COMM
U0151	2 Fusion, MY10, 3.0L	Lost Communication With Restraints Control Module	G	NETWORK COMM
U0418	2 Fusion, MY10, 3.0L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
B1681	1 Fusion, MY10, 3.0L	PATS Transceiver Signal Is Not Being Received by the PATS Control		CCM VEHICLE
P0001	1 Fusion, MY10, 3.0L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0069	1 Fusion, MY10, 3.0L	MAP - Barometric Pressure Correlation		CCM MAF/MAP/BARO
P006A	1 Fusion, MY10, 3.0L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P006B	1 Fusion, MY10, 3.0L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P007D	1 Fusion, MY10, 3.0L	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)	G*	BOOST CONTROL (COMPONENT)
P0088	1 Fusion, MY10, 3.0L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0090	1 Fusion, MY10, 3.0L	Fuel Pressure Regulator Control Circuit/Open		FUEL (COMPONENT)
P0091	1 Fusion, MY10, 3.0L	Fuel Pressure Regulator Control Circuit Low		FUEL (COMPONENT)
P0093	1 Fusion, MY10, 3.0L	Fuel System Leak Detected - Large Leak	G	FUEL (SYSTEM)
P0098	1 Fusion, MY10, 3.0L	Intake Air Temperature Sensor 2 Circuit High (Bank 1)	G*	CCM TEMP
P0103	1 Fusion, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0136	1 Fusion, MY10, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0148	1 Fusion, MY10, 3.0L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P014A	1 Fusion, MY10, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0152	1 Fusion, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0183	1 Fusion, MY10, 3.0L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0196	1 Fusion, MY10, 3.0L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0236	1 Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost Sensor "A" Circuit Range/Performance	G*	BOOST CONTROL (COMPONENT)
P0237	1 Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0243	1 Fusion, MY10, 3.0L	Turbocharger/Supercharger Wastegate Solenoid "A"	G	BOOST CONTROL (COMPONENT)
P02E0	1 Fusion, MY10, 3.0L	Diesel Intake Air Flow Control Circuit/Open		EGR (COMPONENT)
P02E1	1 Fusion, MY10, 3.0L	Diesel Intake Air Flow Control Performance		EGR (COMPONENT)
P02E9	1 Fusion, MY10, 3.0L	Diesel Intake Air Flow Position Sensor Circuit High		EGR (COMPONENT)
P0357	1 Fusion, MY10, 3.0L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0380	1 Fusion, MY10, 3.0L	Glow Plug/Heater Circuit A		CCM GLOW PLUG

P0407	1 Fusion, MY10, 3.0L	EGR Sensor "B" Circuit Low		EGR (COMPONENT)
P040D	1 Fusion, MY10, 3.0L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0411	1 Fusion, MY10, 3.0L	AIR System Incorrect Flow Detected	G*	SEC AIR (SYSTEM)
P042F	1 Fusion, MY10, 3.0L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0462	1 Fusion, MY10, 3.0L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0473	1 Fusion, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit High		BOOST CONTROL (COMPONENT)
P0503	1 Fusion, MY10, 3.0L	Vehicle Speed Sensor "A" Intermittent/Erratic/High	G	CCM TRANS (NON-MIL)
P052A	1 Fusion, MY10, 3.0L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P052B	1 Fusion, MY10, 3.0L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0546	1 Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 1)		EXH GAS SENSOR (SYSTEM)
P0567	1 Fusion, MY10, 3.0L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0569	1 Fusion, MY10, 3.0L	Cruise Control COAST Signal	G	CCM VEHICLE
P0571	1 Fusion, MY10, 3.0L	Brake Switch "A" Circuit	G	CCM VEHICLE
P0572	1 Fusion, MY10, 3.0L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0578	1 Fusion, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit Stuck	G	CCM VEHICLE
P0649	1 Fusion, MY10, 3.0L	Cruise Control Lamp Control Circuit		CCM VEHICLE
P064E	1 Fusion, MY10, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 2)	G*	HO2S (COMPONENT)
P0684	1 Fusion, MY10, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P0691	1 Fusion, MY10, 3.0L	Fan 1 Control Circuit Low	G	CCM A/C, FAN, PS, GEN
P06A6	1 Fusion, MY10, 3.0L	Sensor Reference Voltage "A" Circuit Range/Performance		CCM MODULE
P0709	1 Fusion, MY10, 3.0L	Transmission Range Sensor "A" Circuit Intermittent	G*	CCM TRANS SENSOR
P0745	1 Fusion, MY10, 3.0L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0754	1 Fusion, MY10, 3.0L	Shift Solenoid "A" Intermittent	G+	CCM TRANS ACTUATOR
P0759	1 Fusion, MY10, 3.0L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0775	1 Fusion, MY10, 3.0L	Pressure Control Solenoid B	G*	CCM TRANS ACTUATOR
P0783	1 Fusion, MY10, 3.0L	3-4 Shift	G^	CCM TRANS RATIO
P0983	1 Fusion, MY10, 3.0L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A18	1 Fusion, MY10, 3.0L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	1 Fusion, MY10, 3.0L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P0BF2	1 Fusion, MY10, 3.0L	Drive Motor "B" Phase U Current Sensor Circuit Range/Performance		HYBRID
P1016	1 Fusion, MY10, 3.0L	Wastegate Control Pressure Higher Than Expected	G	BOOST CONTROL (SYSTEM)
P1100	1 Fusion, MY10, 3.0L	Mass Air Flow Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P1102	1 Fusion, MY10, 3.0L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1103	1 Fusion, MY10, 3.0L	Mass Air Flow Sensor In Range But Higher Than Expected		CCM MAF/MAP/BARO
P1117	1 Fusion, MY10, 3.0L	Engine Coolant Temperature Sensor Circuit Intermittent	G	CCM TEMP
P1119	1 Fusion, MY10, 3.0L	Manifold Air Temperature Circuit High		CCM TEMP
P1120	1 Fusion, MY10, 3.0L	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	ETC (COMPONENT)
P1121	1 Fusion, MY10, 3.0L	Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor	G*	ETC (COMPONENT)
P1125	1 Fusion, MY10, 3.0L	Throttle Position Sensor "A" Intermittent	G	ETC (COMPONENT)
P1132	1 Fusion, MY10, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1152	1 Fusion, MY10, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P120F	1 Fusion, MY10, 3.0L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1210	1 Fusion, MY10, 3.0L	Injector Control Pressure Higher Than Desired (engine off)		FUEL (COMPONENT)
P1212	1 Fusion, MY10, 3.0L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1246	1 Fusion, MY10, 3.0L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1271	1 Fusion, MY10, 3.0L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1272	1 Fusion, MY10, 3.0L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1273	1 Fusion, MY10, 3.0L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1274	1 Fusion, MY10, 3.0L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	1 Fusion, MY10, 3.0L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)

P1276	1 Fusion, MY10, 3.0L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	1 Fusion, MY10, 3.0L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	1 Fusion, MY10, 3.0L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1283	1 Fusion, MY10, 3.0L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1284	1 Fusion, MY10, 3.0L	Aborted KOER - Injector Control Pressure Failure		FUEL (COMPONENT)
P1293	1 Fusion, MY10, 3.0L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1294	1 Fusion, MY10, 3.0L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1309	1 Fusion, MY10, 3.0L	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*	CCM CKP/CMP/IGNITION
P1316	1 Fusion, MY10, 3.0L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P132A	1 Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost Control "A" Electrical		BOOST CONTROL (COMPONENT)
P132B	1 Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1380	1 Fusion, MY10, 3.0L	Camshaft Position Actuator Circuit (Bank 1)	G*	VVT (COMPONENT)
P1400	1 Fusion, MY10, 3.0L	Differential Pressure Feedback EGR Circuit Low	G*	EGR (COMPONENT)
P1405	1 Fusion, MY10, 3.0L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1409	1 Fusion, MY10, 3.0L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P1460	1 Fusion, MY10, 3.0L	Wide Open Throttle A/C Cutout Circuit	G	CCM A/C, FAN, PS, GEN
P1504	1 Fusion, MY10, 3.0L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P1506	1 Fusion, MY10, 3.0L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1507	1 Fusion, MY10, 3.0L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P1531	1 Fusion, MY10, 3.0L	Invalid Test - Accelerator Pedal Movement		NO-FAULT CODES
P1550	1 Fusion, MY10, 3.0L	Power Steering Pressure Sensor Out Of Self Test Range	G	CCM A/C, FAN, PS, GEN
P1565	1 Fusion, MY10, 3.0L	Speed Control Command Switch Out Of Range High	G	CCM VEHICLE
P160A	1 Fusion, MY10, 3.0L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P164B	1 Fusion, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Performance (Bank 2 Sensor 1)	G	HO2S (COMPONENT)
P1690	1 Fusion, MY10, 3.0L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P1746	1 Fusion, MY10, 3.0L	Pressure Control Solenoid "A" Open Circuit	G^	CCM TRANS ACTUATOR
P1754	1 Fusion, MY10, 3.0L	Coast Clutch Solenoid Circuit	G^	CCM TRANS ACTUATOR
P1780	1 Fusion, MY10, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P193C	1 Fusion, MY10, 3.0L	Steering Wheel Angle Signal	G	NETWORK COMM
P1A0E	1 Fusion, MY10, 3.0L	Hybrid Powertrain Control Module - Motor Disabled	G	HYBRID
P1A0F	1 Fusion, MY10, 3.0L	Hybrid Powertrain Control Module - Vehicle Disabled	G	HYBRID
P1A10	1 Fusion, MY10, 3.0L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P1A1B	1 Fusion, MY10, 3.0L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P2006	1 Fusion, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P2007	1 Fusion, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 2)	G	CCM IMRC/IMCC
P200C	1 Fusion, MY10, 3.0L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P202D	1 Fusion, MY10, 3.0L	Reductant Leakage		NOX CATALYST (SYSTEM)
P2031	1 Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P2043	1 Fusion, MY10, 3.0L	Reductant Temperature Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P204B	1 Fusion, MY10, 3.0L	Reductant Pressure Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P204F	1 Fusion, MY10, 3.0L	Reductant System Performance (Bank 1)		NOX CATALYST (COMPONENT)
P2080	1 Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P20A1	1 Fusion, MY10, 3.0L	Reductant Purge Control Valve "A" Performance		NOX CATALYST (COMPONENT)
P20E2	1 Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	1 Fusion, MY10, 3.0L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P20E9	1 Fusion, MY10, 3.0L	Reductant Pressure Too High		NOX CATALYST (COMPONENT)
P2121	1 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2126	1 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Range/Performance	G*+	CCM THROTTLE/PEDAL
P2139	1 Fusion, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2185	1 Fusion, MY10, 3.0L	Engine Coolant Temperature Sensor 2 Circuit High	G*	CCM TEMP

P2199	1	Fusion, MY10, 3.0L	Intake Air Temperature 1 / 2 Correlation		CCM TEMP
P2200	1	Fusion, MY10, 3.0L	NOx Sensor Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2262	1	Fusion, MY10, 3.0L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2284	1	Fusion, MY10, 3.0L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2287	1	Fusion, MY10, 3.0L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2289	1	Fusion, MY10, 3.0L	Injector Control Pressure Too High - Engine Off		FUEL (COMPONENT)
P2425	1	Fusion, MY10, 3.0L	EGR Cooling Valve Control Circuit/Open		EGR (COMPONENT)
P242E	1	Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P2450	1	Fusion, MY10, 3.0L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P2455	1	Fusion, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit High		PM FILTER (COMPONENT)
P2456	1	Fusion, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit Intermittent/Erratic		PM FILTER (COMPONENT)
P2457	1	Fusion, MY10, 3.0L	EGR Cooler "A" Efficiency Below Threshold		EGR (SYSTEM)
P2459	1	Fusion, MY10, 3.0L	Particulate Filter Regeneration Frequency (Bank 1)		PM FILTER (SYSTEM)
P2471	1	Fusion, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 4)		EXH GAS SENSOR (COMPONENT)
P249D	1	Fusion, MY10, 3.0L	Closed Loop Reductant Injection Control At Limit - Flow Too Low		NOX CATALYST (SYSTEM)
P249F	1	Fusion, MY10, 3.0L	Excessive Time To Enter Closed Loop Particulate Filter Regeneration Control		PM FILTER (SYSTEM)
P2628	1	Fusion, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit High (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P2705	1	Fusion, MY10, 3.0L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2760	1	Fusion, MY10, 3.0L	Torque Converter Clutch Pressure Control Solenoid Intermittent	G	CCM TRANS ACTUATOR
P2A00	1	Fusion, MY10, 3.0L	O2 Sensor Circuit Range/Performance (Bank 1 Sensor 1)		HO2S (COMPONENT)
U0073	1	Fusion, MY10, 3.0L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0105	1	Fusion, MY10, 3.0L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0111	1	Fusion, MY10, 3.0L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
U0121	1	Fusion, MY10, 3.0L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0140	1	Fusion, MY10, 3.0L	Lost Communication With Body Control Module	G	NETWORK COMM
U0306	1	Fusion, MY10, 3.0L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
U059E	1	Fusion, MY10, 3.0L	Invalid Data Received from NOx Sensor "A"		EXH GAS SENSOR (COMPONENT)
U05A0	1	Fusion, MY10, 3.0L	Invalid Data Received from EVAP System Leak Detection Control Module	G*	EVAP (COMPONENT)
U1900	1	Fusion, MY10, 3.0L	CAN Communication Bus Fault - Receive Error	G	NETWORK COMM
P0016	1009	Fusion, MY11, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P052A	942	Fusion, MY11, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0455	636	Fusion, MY11, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0457	539	Fusion, MY11, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P1260	518	Fusion, MY11, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	518	Fusion, MY11, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0456	484	Fusion, MY11, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1602	464	Fusion, MY11, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P2111	404	Fusion, MY11, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0442	375	Fusion, MY11, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0102	303	Fusion, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P1464	294	Fusion, MY11, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0316	282	Fusion, MY11, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0113	275	Fusion, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P144A	269	Fusion, MY11, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1A14	240	Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P2196	237	Fusion, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1285	217	Fusion, MY11, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1288	212	Fusion, MY11, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P1450	200	Fusion, MY11, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P1299	194	Fusion, MY11, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP

U0155	191 Fusion, MY11, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0451	184 Fusion, MY11, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0171	180 Fusion, MY11, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P1780	180 Fusion, MY11, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P2112	175 Fusion, MY11, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P260F	159 Fusion, MY11, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P2195	157 Fusion, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1A1B	154 Fusion, MY11, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P0A7C	147 Fusion, MY11, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P0297	141 Fusion, MY11, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0122	134 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P1A10	134 Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P0223	131 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0685	128 Fusion, MY11, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0300	122 Fusion, MY11, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0420	113 Fusion, MY11, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0301	110 Fusion, MY11, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0443	107 Fusion, MY11, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P1703	102 Fusion, MY11, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P1622	97 Fusion, MY11, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P1A0C	97 Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P052B	96 Fusion, MY11, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0562	91 Fusion, MY11, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P06B8	90 Fusion, MY11, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
U0111	84 Fusion, MY11, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
P0480	82 Fusion, MY11, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P1289	82 Fusion, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P0302	80 Fusion, MY11, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0304	80 Fusion, MY11, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0010	77 Fusion, MY11, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
U210B	77 Fusion, MY11, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0303	75 Fusion, MY11, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
U0101	73 Fusion, MY11, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P0353	63 Fusion, MY11, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
U0129	63 Fusion, MY11, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P2450	62 Fusion, MY11, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0341	61 Fusion, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0446	59 Fusion, MY11, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0C2F	59 Fusion, MY11, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P0340	58 Fusion, MY11, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P1101	56 Fusion, MY11, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P0403	53 Fusion, MY11, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0463	53 Fusion, MY11, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0104	51 Fusion, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0625	51 Fusion, MY11, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
U0418	50 Fusion, MY11, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P0141	48 Fusion, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0352	47 Fusion, MY11, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0A03	47 Fusion, MY11, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P1921	47 Fusion, MY11, 2.5L	Transmission Range Signal	G	NETWORK COMM

P0135	45 Fusion, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0344	45 Fusion, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P2627	45 Fusion, MY11, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0505	40 Fusion, MY11, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P0748	38 Fusion, MY11, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P1639	38 Fusion, MY11, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0201	35 Fusion, MY11, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	35 Fusion, MY11, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0605	35 Fusion, MY11, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0690	35 Fusion, MY11, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0130	34 Fusion, MY11, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0706	34 Fusion, MY11, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0202	33 Fusion, MY11, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0768	33 Fusion, MY11, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P0400	32 Fusion, MY11, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P0533	32 Fusion, MY11, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0707	32 Fusion, MY11, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P1783	32 Fusion, MY11, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P2101	32 Fusion, MY11, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0204	31 Fusion, MY11, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0620	30 Fusion, MY11, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P1124	30 Fusion, MY11, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0011	28 Fusion, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0128	28 Fusion, MY11, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P2127	28 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0645	27 Fusion, MY11, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0773	27 Fusion, MY11, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P0354	26 Fusion, MY11, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0657	26 Fusion, MY11, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0351	25 Fusion, MY11, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0770	25 Fusion, MY11, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P1397	25 Fusion, MY11, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0109	24 Fusion, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0962	24 Fusion, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0106	23 Fusion, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0763	23 Fusion, MY11, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P1408	23 Fusion, MY11, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P2122	23 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0743	22 Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P068A	21 Fusion, MY11, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
U0109	21 Fusion, MY11, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P025A	20 Fusion, MY11, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0627	20 Fusion, MY11, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0731	20 Fusion, MY11, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0758	20 Fusion, MY11, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0460	19 Fusion, MY11, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0722	19 Fusion, MY11, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P1702	19 Fusion, MY11, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P2704	19 Fusion, MY11, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0222	18 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)

P060A	18 Fusion, MY11, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0717	18 Fusion, MY11, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P1633	18 Fusion, MY11, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P0174	17 Fusion, MY11, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0504	17 Fusion, MY11, 2.5L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P0715	17 Fusion, MY11, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0735	17 Fusion, MY11, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0767	17 Fusion, MY11, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0982	17 Fusion, MY11, 2.5L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0A18	17 Fusion, MY11, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	17 Fusion, MY11, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P1705	17 Fusion, MY11, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P0116	16 Fusion, MY11, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0581	16 Fusion, MY11, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0600	16 Fusion, MY11, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P061B	16 Fusion, MY11, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0689	16 Fusion, MY11, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0753	16 Fusion, MY11, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0960	16 Fusion, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0453	15 Fusion, MY11, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P2096	15 Fusion, MY11, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2135	15 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0012	14 Fusion, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P025B	14 Fusion, MY11, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0720	14 Fusion, MY11, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0765	14 Fusion, MY11, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P1127	14 Fusion, MY11, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1711	14 Fusion, MY11, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0A7D	13 Fusion, MY11, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
P0108	12 Fusion, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P2107	12 Fusion, MY11, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P0030	11 Fusion, MY11, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0068	11 Fusion, MY11, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0172	11 Fusion, MY11, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0401	11 Fusion, MY11, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0603	11 Fusion, MY11, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0710	11 Fusion, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0732	11 Fusion, MY11, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0750	11 Fusion, MY11, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0979	11 Fusion, MY11, 2.5L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P2138	11 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2270	11 Fusion, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2418	11 Fusion, MY11, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P2701	11 Fusion, MY11, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0512	10 Fusion, MY11, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0573	10 Fusion, MY11, 2.5L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0742	10 Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0760	10 Fusion, MY11, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0976	10 Fusion, MY11, 2.5L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
U0300	10 Fusion, MY11, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)

P0272	9 Fusion, MY11, 2.5L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0528	9 Fusion, MY11, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P163F	9 Fusion, MY11, 2.5L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P2535	9 Fusion, MY11, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
B1601	8 Fusion, MY11, 2.5L	Unprogrammed PATS Key		CCM VEHICLE
P0114	8 Fusion, MY11, 2.5L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0266	8 Fusion, MY11, 2.5L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0299	8 Fusion, MY11, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0325	8 Fusion, MY11, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0713	8 Fusion, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0729	8 Fusion, MY11, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0734	8 Fusion, MY11, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0740	8 Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P2291	8 Fusion, MY11, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P0219	7 Fusion, MY11, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P0232	7 Fusion, MY11, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0263	7 Fusion, MY11, 2.5L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0611	7 Fusion, MY11, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P061C	7 Fusion, MY11, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0676	7 Fusion, MY11, 2.5L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0983	7 Fusion, MY11, 2.5L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P0984	7 Fusion, MY11, 2.5L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1145	7 Fusion, MY11, 2.5L	Calculated Torque Error	G	ETC (SYSTEM)
P128A	7 Fusion, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P2279	7 Fusion, MY11, 2.5L	Intake Air System Leak	G*	FUEL (SYSTEM)
P246C	7 Fusion, MY11, 2.5L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2702	7 Fusion, MY11, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0191	6 Fusion, MY11, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0193	6 Fusion, MY11, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0269	6 Fusion, MY11, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0305	6 Fusion, MY11, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	6 Fusion, MY11, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0308	6 Fusion, MY11, 2.5L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0404	6 Fusion, MY11, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0677	6 Fusion, MY11, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	6 Fusion, MY11, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0703	6 Fusion, MY11, 2.5L	Brake Switch "B" Circuit		CCM VEHICLE
P0733	6 Fusion, MY11, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0755	6 Fusion, MY11, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0761	6 Fusion, MY11, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0772	6 Fusion, MY11, 2.5L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0963	6 Fusion, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0977	6 Fusion, MY11, 2.5L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P1316	6 Fusion, MY11, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1536	6 Fusion, MY11, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P1744	6 Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2269	6 Fusion, MY11, 2.5L	Water in Fuel Condition		NO-FAULT CODES
P2463	6 Fusion, MY11, 2.5L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P2600	6 Fusion, MY11, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2705	6 Fusion, MY11, 2.5L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO

P0000	5 Fusion, MY11, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0053	5 Fusion, MY11, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P00B7	5 Fusion, MY11, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0123	5 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0131	5 Fusion, MY11, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0138	5 Fusion, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0175	5 Fusion, MY11, 2.5L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0264	5 Fusion, MY11, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0307	5 Fusion, MY11, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0356	5 Fusion, MY11, 2.5L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0430	5 Fusion, MY11, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0642	5 Fusion, MY11, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0671	5 Fusion, MY11, 2.5L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0672	5 Fusion, MY11, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	5 Fusion, MY11, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	5 Fusion, MY11, 2.5L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	5 Fusion, MY11, 2.5L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0741	5 Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0974	5 Fusion, MY11, 2.5L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P1116	5 Fusion, MY11, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1148	5 Fusion, MY11, 2.5L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1151	5 Fusion, MY11, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1290	5 Fusion, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1378	5 Fusion, MY11, 2.5L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1709	5 Fusion, MY11, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P2104	5 Fusion, MY11, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2198	5 Fusion, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2285	5 Fusion, MY11, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2703	5 Fusion, MY11, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
B1600	4 Fusion, MY11, 2.5L	No PATS Key Read by the PATS Control		CCM VEHICLE
P0046	4 Fusion, MY11, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0088	4 Fusion, MY11, 2.5L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0111	4 Fusion, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0148	4 Fusion, MY11, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0230	4 Fusion, MY11, 2.5L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0279	4 Fusion, MY11, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0281	4 Fusion, MY11, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0282	4 Fusion, MY11, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0284	4 Fusion, MY11, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0335	4 Fusion, MY11, 2.5L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0405	4 Fusion, MY11, 2.5L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0462	4 Fusion, MY11, 2.5L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0472	4 Fusion, MY11, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0500	4 Fusion, MY11, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	4 Fusion, MY11, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0579	4 Fusion, MY11, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0607	4 Fusion, MY11, 2.5L	Control Module Performance	G*	CCM MODULE
P0700	4 Fusion, MY11, 2.5L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0708	4 Fusion, MY11, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0712	4 Fusion, MY11, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR

P0744	4 Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Intermittent	G*	CCM TRANS ACTUATOR
P0764	4 Fusion, MY11, 2.5L	Shift Solenoid "C" Intermittent	G+	CCM TRANS ACTUATOR
P0769	4 Fusion, MY11, 2.5L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P0A00	4 Fusion, MY11, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P0A05	4 Fusion, MY11, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P1184	4 Fusion, MY11, 2.5L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1211	4 Fusion, MY11, 2.5L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1233	4 Fusion, MY11, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1335	4 Fusion, MY11, 2.5L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1336	4 Fusion, MY11, 2.5L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1635	4 Fusion, MY11, 2.5L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P1A0D	4 Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P200E	4 Fusion, MY11, 2.5L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P2033	4 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2084	4 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P20E3	4 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2110	4 Fusion, MY11, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2290	4 Fusion, MY11, 2.5L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P2455	4 Fusion, MY11, 2.5L	Particulate Filter Pressure Sensor "A" Circuit High		PM FILTER (COMPONENT)
P2610	4 Fusion, MY11, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2617	4 Fusion, MY11, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2700	4 Fusion, MY11, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0422	4 Fusion, MY11, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
P006B	3 Fusion, MY11, 2.5L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P0121	3 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P0132	3 Fusion, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0152	3 Fusion, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0183	3 Fusion, MY11, 2.5L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0196	3 Fusion, MY11, 2.5L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0234	3 Fusion, MY11, 2.5L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0267	3 Fusion, MY11, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	3 Fusion, MY11, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	3 Fusion, MY11, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0275	3 Fusion, MY11, 2.5L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0276	3 Fusion, MY11, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0320	3 Fusion, MY11, 2.5L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0336	3 Fusion, MY11, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0406	3 Fusion, MY11, 2.5L	EGR Sensor "A" Circuit High	G*	EGR (COMPONENT)
P0461	3 Fusion, MY11, 2.5L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0470	3 Fusion, MY11, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0476	3 Fusion, MY11, 2.5L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P050B	3 Fusion, MY11, 2.5L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0563	3 Fusion, MY11, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0572	3 Fusion, MY11, 2.5L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0606	3 Fusion, MY11, 2.5L	Control Module Processor	G*	CCM MODULE
P061A	3 Fusion, MY11, 2.5L	Internal Control Module Torque Performance	G+	ETC (SYSTEM)
P0701	3 Fusion, MY11, 2.5L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0751	3 Fusion, MY11, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0757	3 Fusion, MY11, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P07AA	3 Fusion, MY11, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO

P0980	3 Fusion, MY11, 2.5L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P115A	3 Fusion, MY11, 2.5L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P115E	3 Fusion, MY11, 2.5L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P1247	3 Fusion, MY11, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1277	3 Fusion, MY11, 2.5L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	3 Fusion, MY11, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1282	3 Fusion, MY11, 2.5L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1500	3 Fusion, MY11, 2.5L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1501	3 Fusion, MY11, 2.5L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1910	3 Fusion, MY11, 2.5L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P1A13	3 Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Regenerative Braking Disabled	G	HYBRID
P2097	3 Fusion, MY11, 2.5L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P2100	3 Fusion, MY11, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2106	3 Fusion, MY11, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2123	3 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2128	3 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2197	3 Fusion, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2199	3 Fusion, MY11, 2.5L	Intake Air Temperature 1 / 2 Correlation		CCM TEMP
P2271	3 Fusion, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P242D	3 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 3)		EXH GAS SENSOR (SYSTEM)
P2452	3 Fusion, MY11, 2.5L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2801	3 Fusion, MY11, 2.5L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
P2802	3 Fusion, MY11, 2.5L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
B1342	2 Fusion, MY11, 2.5L	ECU is Faulted	G	CCM MODULE
B1342	2 Fusion, MY11, 2.5L	ECU Is Faulted	G	CCM MODULE
B1342	2 Fusion, MY11, 2.5L	ECU is Faulted		CCM VEHICLE
P0022	2 Fusion, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0069	2 Fusion, MY11, 2.5L	MAP - Barometric Pressure Correlation		CCM MAF/MAP/BARO
P0087	2 Fusion, MY11, 2.5L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0101	2 Fusion, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0107	2 Fusion, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0112	2 Fusion, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	CCM TEMP
P0119	2 Fusion, MY11, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Intermittent/Erratic	G*	CCM TEMP
P012F	2 Fusion, MY11, 2.5L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0133	2 Fusion, MY11, 2.5L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P013A	2 Fusion, MY11, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0150	2 Fusion, MY11, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0155	2 Fusion, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0156	2 Fusion, MY11, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0158	2 Fusion, MY11, 2.5L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0205	2 Fusion, MY11, 2.5L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0208	2 Fusion, MY11, 2.5L	Cylinder 8 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0231	2 Fusion, MY11, 2.5L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0237	2 Fusion, MY11, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0261	2 Fusion, MY11, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0278	2 Fusion, MY11, 2.5L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0357	2 Fusion, MY11, 2.5L	Ignition Coil "G" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0402	2 Fusion, MY11, 2.5L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P040D	2 Fusion, MY11, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0452	2 Fusion, MY11, 2.5L	EVAP System Pressure Sensor/Switch Low	G*	EVAP (COMPONENT)

P0487	2 Fusion, MY11, 2.5L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0488	2 Fusion, MY11, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0506	2 Fusion, MY11, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0507	2 Fusion, MY11, 2.5L	Idle Control System - RPM Higher Than Expected	G*	CCM IDLE AIR CTRL
P0541	2 Fusion, MY11, 2.5L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0546	2 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 1)		EXH GAS SENSOR (SYSTEM)
P0567	2 Fusion, MY11, 2.5L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	2 Fusion, MY11, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	2 Fusion, MY11, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P060B	2 Fusion, MY11, 2.5L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P0623	2 Fusion, MY11, 2.5L	Generator Lamp Control Circuit		CCM A/C, FAN, PS, GEN
P062F	2 Fusion, MY11, 2.5L	Internal Control Module EEPROM Error	G	CCM MODULE
P0670	2 Fusion, MY11, 2.5L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0683	2 Fusion, MY11, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0705	2 Fusion, MY11, 2.5L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0718	2 Fusion, MY11, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit Intermittent	G+	CCM TRANS SENSOR
P0721	2 Fusion, MY11, 2.5L	Output Shaft Speed Sensor Circuit Range/Performance	G+	CCM TRANS SENSOR
P0774	2 Fusion, MY11, 2.5L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P07A9	2 Fusion, MY11, 2.5L	Transmission Friction Element "D" Stuck On	G+	CCM TRANS RATIO
P0973	2 Fusion, MY11, 2.5L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1102	2 Fusion, MY11, 2.5L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1105	2 Fusion, MY11, 2.5L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P117B	2 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Correlation (Bank 1)		EXH GAS SENSOR (SYSTEM)
P1235	2 Fusion, MY11, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1273	2 Fusion, MY11, 2.5L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1293	2 Fusion, MY11, 2.5L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1379	2 Fusion, MY11, 2.5L	Fuel Injector Control Module System Voltage High		FUEL (COMPONENT)
P1405	2 Fusion, MY11, 2.5L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1502	2 Fusion, MY11, 2.5L	Vehicle Speed Sensor Intermittent	G^	CCM TRANS SENSOR
P1506	2 Fusion, MY11, 2.5L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1519	2 Fusion, MY11, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1565	2 Fusion, MY11, 2.5L	Speed Control Command Switch Out Of Range High	G	CCM VEHICLE
P1575	2 Fusion, MY11, 2.5L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P160A	2 Fusion, MY11, 2.5L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P164A	2 Fusion, MY11, 2.5L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P1670	2 Fusion, MY11, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1690	2 Fusion, MY11, 2.5L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P193C	2 Fusion, MY11, 2.5L	Steering Wheel Angle Signal	G	NETWORK COMM
P1A0E	2 Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Motor Disabled	G	HYBRID
P2004	2 Fusion, MY11, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P2072	2 Fusion, MY11, 2.5L	Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
P2080	2 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P20E2	2 Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	2 Fusion, MY11, 2.5L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2105	2 Fusion, MY11, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2132	2 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Low	G+	CCM THROTTLE/PEDAL
P2263	2 Fusion, MY11, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P242F	2 Fusion, MY11, 2.5L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P252F	2 Fusion, MY11, 2.5L	Engine Oil Level Too High		NO-FAULT CODES
P2531	2 Fusion, MY11, 2.5L	Ignition Switch Run Position Circuit Low	G	CCM VEHICLE

P2614	2 Fusion, MY11, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P2623	2 Fusion, MY11, 2.5L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
U0121	2 Fusion, MY11, 2.5L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
B1213	1 Fusion, MY11, 2.5L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
B1602	1 Fusion, MY11, 2.5L	Partial PATS Key was Read		CCM VEHICLE
B1681	1 Fusion, MY11, 2.5L	PATS Transceiver Signal Is Not Being Received by the PATS Control		CCM VEHICLE
B2431	1 Fusion, MY11, 2.5L	Key Programming Error		CCM VEHICLE
P0001	1 Fusion, MY11, 2.5L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0004	1 Fusion, MY11, 2.5L	Fuel Volume Regulator Control Circuit High	G*	FUEL (COMPONENT)
P0020	1 Fusion, MY11, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0021	1 Fusion, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0023	1 Fusion, MY11, 2.5L	Exhaust (B) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0054	1 Fusion, MY11, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P008A	1 Fusion, MY11, 2.5L	Low Pressure Fuel System Pressure - Too Low	G	FUEL (SYSTEM)
P0097	1 Fusion, MY11, 2.5L	Intake Air Temperature Sensor 2 Circuit Low (Bank 1)	G*	CCM TEMP
P0100	1 Fusion, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0103	1 Fusion, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0151	1 Fusion, MY11, 2.5L	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0153	1 Fusion, MY11, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0161	1 Fusion, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0181	1 Fusion, MY11, 2.5L	Fuel Temperature Sensor "A" Circuit Range/Performance		FUEL (COMPONENT)
P0190	1 Fusion, MY11, 2.5L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P0197	1 Fusion, MY11, 2.5L	Engine Oil Temperature Sensor "A" Circuit Low	G*	CCM TEMP
P0198	1 Fusion, MY11, 2.5L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0206	1 Fusion, MY11, 2.5L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0220	1 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit		ETC (COMPONENT)
P0221	1 Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0330	1 Fusion, MY11, 2.5L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0345	1 Fusion, MY11, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0346	1 Fusion, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0355	1 Fusion, MY11, 2.5L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0358	1 Fusion, MY11, 2.5L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0359	1 Fusion, MY11, 2.5L	Ignition Coil "I" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0410	1 Fusion, MY11, 2.5L	AIR System	G*	SEC AIR (SYSTEM)
P041D	1 Fusion, MY11, 2.5L	EGR Temperature Sensor "B" Circuit High		EGR (COMPONENT)
P042F	1 Fusion, MY11, 2.5L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0471	1 Fusion, MY11, 2.5L	Exhaust Pressure Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0478	1 Fusion, MY11, 2.5L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0491	1 Fusion, MY11, 2.5L	AIR System Insufficient Flow (Bank 1)	G*	SEC AIR (SYSTEM)
P04DA	1 Fusion, MY11, 2.5L	Closed Loop EGR Control At Limit - Flow Too High		EGR (SYSTEM)
P050E	1 Fusion, MY11, 2.5L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0511	1 Fusion, MY11, 2.5L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P0532	1 Fusion, MY11, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0565	1 Fusion, MY11, 2.5L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	1 Fusion, MY11, 2.5L	Cruise Control OFF Signal	G	CCM VEHICLE
P0571	1 Fusion, MY11, 2.5L	Brake Switch "A" Circuit	G	CCM VEHICLE
P0578	1 Fusion, MY11, 2.5L	Cruise Control Multi-Function Input "A" Circuit Stuck	G	CCM VEHICLE
P060C	1 Fusion, MY11, 2.5L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P060D	1 Fusion, MY11, 2.5L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
P0622	1 Fusion, MY11, 2.5L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN

P0626	1 Fusion, MY11, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0643	1 Fusion, MY11, 2.5L	Sensor Reference Voltage "A" Circuit High	G*	CCM MODULE
P064D	1 Fusion, MY11, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P0660	1 Fusion, MY11, 2.5L	Intake Manifold Tuning Valve Control Circuit/Open (Bank 1)	G	CCM IMRC/IMCC
P0745	1 Fusion, MY11, 2.5L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0756	1 Fusion, MY11, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0759	1 Fusion, MY11, 2.5L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0762	1 Fusion, MY11, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0766	1 Fusion, MY11, 2.5L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0791	1 Fusion, MY11, 2.5L	Intermediate Shaft Speed Sensor "A" Circuit	G^	CCM TRANS SENSOR
P0795	1 Fusion, MY11, 2.5L	Pressure Control Solenoid "C"	G*	CCM TRANS ACTUATOR
P07A5	1 Fusion, MY11, 2.5L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO
P07A8	1 Fusion, MY11, 2.5L	Transmission Friction Element "D" Performance/Stuck Off	G+	CCM TRANS RATIO
P0850	1 Fusion, MY11, 2.5L	Park / Neutral Switch Input Circuit	G	CCM TRANS SENSOR
P0867	1 Fusion, MY11, 2.5L	Transmission Fluid Pressure	G+	CCM TRANS SYSTEM
P0A02	1 Fusion, MY11, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit Low	G	HYBRID
P0A08	1 Fusion, MY11, 2.5L	DC/DC Converter Status Circuit/Open	G	HYBRID
P1106	1 Fusion, MY11, 2.5L	Dual Alternator Lower Fault		CCM A/C, FAN, PS, GEN
P1111	1 Fusion, MY11, 2.5L	System Pass		NO-FAULT CODES
P1120	1 Fusion, MY11, 2.5L	Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*	ETC (COMPONENT)
P1131	1 Fusion, MY11, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1150	1 Fusion, MY11, 2.5L	Lack Of HO2S21 Switches - Fuel Trim At Limit	G*	HO2S (SYSTEM)
P1152	1 Fusion, MY11, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P120F	1 Fusion, MY11, 2.5L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1212	1 Fusion, MY11, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1237	1 Fusion, MY11, 2.5L	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1246	1 Fusion, MY11, 2.5L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1248	1 Fusion, MY11, 2.5L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1249	1 Fusion, MY11, 2.5L	Wastegate Control Valve "A" Performance		BOOST CONTROL (SYSTEM)
P1270	1 Fusion, MY11, 2.5L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1271	1 Fusion, MY11, 2.5L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1272	1 Fusion, MY11, 2.5L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	1 Fusion, MY11, 2.5L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1295	1 Fusion, MY11, 2.5L	Injector Multiple Faults (Bank 1)		FUEL (COMPONENT)
P132B	1 Fusion, MY11, 2.5L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1383	1 Fusion, MY11, 2.5L	Camshaft Position Timing Over Retarded (Bank 1)	G*	VVT (SYSTEM)
P1391	1 Fusion, MY11, 2.5L	Glow Plug Circuit Low (Bank 1)		CCM GLOW PLUG
P1393	1 Fusion, MY11, 2.5L	Glow Plug Circuit Low (Bank 2)		CCM GLOW PLUG
P1443	1 Fusion, MY11, 2.5L	EVAP System Control Valve (low/no flow)	G*	MONITOR - EVAP (SYSTEM)
P1469	1 Fusion, MY11, 2.5L	Rapid A/C Cycling	G	CCM A/C, FAN, PS, GEN
P1474	1 Fusion, MY11, 2.5L	Fan Control Primary Circuit	G	CCM A/C, FAN, PS, GEN
P1504	1 Fusion, MY11, 2.5L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P1507	1 Fusion, MY11, 2.5L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P1518	1 Fusion, MY11, 2.5L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P1550	1 Fusion, MY11, 2.5L	Power Steering Pressure Sensor Out Of Self Test Range	G	CCM A/C, FAN, PS, GEN
P162E	1 Fusion, MY11, 2.5L	Internal Control Module PTO Control Performance		ETC (SYSTEM)
P1636	1 Fusion, MY11, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P1650	1 Fusion, MY11, 2.5L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1662	1 Fusion, MY11, 2.5L	EDU_EN Output Circuit		CCM MODULE
P1668	1 Fusion, MY11, 2.5L	PCM/IDM Communications Error		CCM CKP/CMP/IGNITION

P1742	1	Fusion, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Failed On	G*	CCM TRANS TCC
P1746	1	Fusion, MY11, 2.5L	Pressure Control Solenoid "A" Open Circuit	G^	CCM TRANS ACTUATOR
P1747	1	Fusion, MY11, 2.5L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P1A0F	1	Fusion, MY11, 2.5L	Hybrid Powertrain Control Module - Vehicle Disabled	G	HYBRID
P2002	1	Fusion, MY11, 2.5L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2006	1	Fusion, MY11, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P200C	1	Fusion, MY11, 2.5L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P207F	1	Fusion, MY11, 2.5L	Reductant Quality Performance		NOX CATALYST (SYSTEM)
P20E4	1	Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2131	1	Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2139	1	Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2140	1	Fusion, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P215A	1	Fusion, MY11, 2.5L	Vehicle Speed / Wheel Speed Correlation		CCM TRANS SENSOR
P21B0	1	Fusion, MY11, 2.5L	Reductant Level Sensor "C" Circuit High		NOX CATALYST (COMPONENT)
P2200	1	Fusion, MY11, 2.5L	NOx Sensor Circuit (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2209	1	Fusion, MY11, 2.5L	NOx Sensor Heater Sense Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2262	1	Fusion, MY11, 2.5L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2287	1	Fusion, MY11, 2.5L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)
P2289	1	Fusion, MY11, 2.5L	Injector Control Pressure Too High - Engine Off		FUEL (COMPONENT)
P242B	1	Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P242E	1	Fusion, MY11, 2.5L	Exhaust Gas Temperature Sensor Circuit Intermittent/Erratic (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P244D	1	Fusion, MY11, 2.5L	Exhaust Temperature Too High For Particulate Filter Regeneration (Bank 1)		PM FILTER (SYSTEM)
P2453	1	Fusion, MY11, 2.5L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P2457	1	Fusion, MY11, 2.5L	EGR Cooler "A" Efficiency Below Threshold		EGR (SYSTEM)
P2533	1	Fusion, MY11, 2.5L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P2539	1	Fusion, MY11, 2.5L	Low Pressure Fuel System Sensor Circuit		FUEL (COMPONENT)
P2563	1	Fusion, MY11, 2.5L	Turbocharger Boost Control Position Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P2800	1	Fusion, MY11, 2.5L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
P2803	1	Fusion, MY11, 2.5L	Transmission Range Sensor "B" Circuit High	G	CCM TRANS SENSOR
P2A00	1	Fusion, MY11, 2.5L	O2 Sensor Circuit Range/Performance (Bank 1 Sensor 1)		HO2S (COMPONENT)
U0073	1	Fusion, MY11, 2.5L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0105	1	Fusion, MY11, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0151	1	Fusion, MY11, 2.5L	Lost Communication With Restraints Control Module	G	NETWORK COMM
U0306	1	Fusion, MY11, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
U0423	1	Fusion, MY11, 2.5L	Invalid Data Received from Instrument Panel Cluster Control Module	G*	NETWORK COMM
U1051	1	Fusion, MY11, 2.5L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
P2111	881	Fusion, MY11, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0456	775	Fusion, MY11, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1780	741	Fusion, MY11, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P2112	634	Fusion, MY11, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P1260	273	Fusion, MY11, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	273	Fusion, MY11, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0122	206	Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	206	Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P1602	195	Fusion, MY11, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P1464	176	Fusion, MY11, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0685	173	Fusion, MY11, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0455	145	Fusion, MY11, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0316	144	Fusion, MY11, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0297	108	Fusion, MY11, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE

P0457	103	Fusion, MY11, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P1288	84	Fusion, MY11, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0113	82	Fusion, MY11, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0102	72	Fusion, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P2195	61	Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2197	60	Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P1285	59	Fusion, MY11, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P2196	57	Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2198	57	Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P1703	54	Fusion, MY11, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P1622	51	Fusion, MY11, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P1450	48	Fusion, MY11, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P06B8	45	Fusion, MY11, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0300	44	Fusion, MY11, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0451	44	Fusion, MY11, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P1299	44	Fusion, MY11, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P1124	41	Fusion, MY11, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0104	39	Fusion, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0505	39	Fusion, MY11, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P2101	39	Fusion, MY11, 3.0L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P260F	38	Fusion, MY11, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0306	37	Fusion, MY11, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0304	32	Fusion, MY11, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0480	31	Fusion, MY11, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0022	27	Fusion, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0155	26	Fusion, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0305	26	Fusion, MY11, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0443	26	Fusion, MY11, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0012	24	Fusion, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0301	24	Fusion, MY11, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0303	24	Fusion, MY11, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0341	24	Fusion, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0625	23	Fusion, MY11, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0346	21	Fusion, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
U210B	21	Fusion, MY11, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0010	20	Fusion, MY11, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0171	20	Fusion, MY11, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0174	20	Fusion, MY11, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0175	20	Fusion, MY11, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P1921	19	Fusion, MY11, 3.0L	Transmission Range Signal	G	NETWORK COMM
P0302	18	Fusion, MY11, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P1127	18	Fusion, MY11, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P0706	17	Fusion, MY11, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P1397	17	Fusion, MY11, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0135	16	Fusion, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0172	16	Fusion, MY11, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0707	16	Fusion, MY11, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0403	15	Fusion, MY11, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P2627	15	Fusion, MY11, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P2630	15	Fusion, MY11, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)

P0020	13 Fusion, MY11, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0748	13 Fusion, MY11, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0768	13 Fusion, MY11, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P1639	13 Fusion, MY11, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P2122	13 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0344	12 Fusion, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0627	12 Fusion, MY11, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P1783	12 Fusion, MY11, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0141	11 Fusion, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0206	11 Fusion, MY11, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0340	11 Fusion, MY11, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P060A	11 Fusion, MY11, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0645	11 Fusion, MY11, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P2127	11 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0420	10 Fusion, MY11, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0600	10 Fusion, MY11, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P0620	10 Fusion, MY11, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0962	10 Fusion, MY11, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P2270	10 Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0161	9 Fusion, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P025A	9 Fusion, MY11, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0355	9 Fusion, MY11, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0657	9 Fusion, MY11, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0690	9 Fusion, MY11, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0735	9 Fusion, MY11, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P1101	9 Fusion, MY11, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P0128	8 Fusion, MY11, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0356	8 Fusion, MY11, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0710	8 Fusion, MY11, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0713	8 Fusion, MY11, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0731	8 Fusion, MY11, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0743	8 Fusion, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0765	8 Fusion, MY11, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0773	8 Fusion, MY11, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P1489	8 Fusion, MY11, 3.0L	PCV Heater Control Circuit	G	PCV
P1705	8 Fusion, MY11, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
U0300	8 Fusion, MY11, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0054	7 Fusion, MY11, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0205	7 Fusion, MY11, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0219	7 Fusion, MY11, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0222	7 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0353	7 Fusion, MY11, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0354	7 Fusion, MY11, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0446	7 Fusion, MY11, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0533	7 Fusion, MY11, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0717	7 Fusion, MY11, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0729	7 Fusion, MY11, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0753	7 Fusion, MY11, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0763	7 Fusion, MY11, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0770	7 Fusion, MY11, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR

P144A	7 Fusion, MY11, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P2138	7 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
U0109	7 Fusion, MY11, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0060	6 Fusion, MY11, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0108	6 Fusion, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0123	6 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0430	6 Fusion, MY11, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0581	6 Fusion, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0605	6 Fusion, MY11, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0758	6 Fusion, MY11, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0960	6 Fusion, MY11, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P1289	6 Fusion, MY11, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P2701	6 Fusion, MY11, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0021	5 Fusion, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0153	5 Fusion, MY11, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0201	5 Fusion, MY11, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0345	5 Fusion, MY11, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0352	5 Fusion, MY11, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0732	5 Fusion, MY11, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0733	5 Fusion, MY11, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0734	5 Fusion, MY11, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0760	5 Fusion, MY11, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P1702	5 Fusion, MY11, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P1711	5 Fusion, MY11, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P2272	5 Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2291	5 Fusion, MY11, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P0050	4 Fusion, MY11, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0106	4 Fusion, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0109	4 Fusion, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0202	4 Fusion, MY11, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	4 Fusion, MY11, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	4 Fusion, MY11, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0330	4 Fusion, MY11, 3.0L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0351	4 Fusion, MY11, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0463	4 Fusion, MY11, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0504	4 Fusion, MY11, 3.0L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P0689	4 Fusion, MY11, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P068A	4 Fusion, MY11, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0708	4 Fusion, MY11, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0740	4 Fusion, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0750	4 Fusion, MY11, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0979	4 Fusion, MY11, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	4 Fusion, MY11, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P163F	4 Fusion, MY11, 3.0L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P2096	4 Fusion, MY11, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2704	4 Fusion, MY11, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0155	4 Fusion, MY11, 3.0L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0011	3 Fusion, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0059	3 Fusion, MY11, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0130	3 Fusion, MY11, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)

P013A	3 Fusion, MY11, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0150	3 Fusion, MY11, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0266	3 Fusion, MY11, 3.0L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0299	3 Fusion, MY11, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0307	3 Fusion, MY11, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0349	3 Fusion, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0401	3 Fusion, MY11, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0453	3 Fusion, MY11, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0500	3 Fusion, MY11, 3.0L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	3 Fusion, MY11, 3.0L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0528	3 Fusion, MY11, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0611	3 Fusion, MY11, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P061B	3 Fusion, MY11, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0715	3 Fusion, MY11, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0722	3 Fusion, MY11, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0742	3 Fusion, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0755	3 Fusion, MY11, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0756	3 Fusion, MY11, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0767	3 Fusion, MY11, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0974	3 Fusion, MY11, 3.0L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0976	3 Fusion, MY11, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0983	3 Fusion, MY11, 3.0L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P2135	3 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P2463	3 Fusion, MY11, 3.0L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	3 Fusion, MY11, 3.0L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2703	3 Fusion, MY11, 3.0L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0105	3 Fusion, MY11, 3.0L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
B1600	2 Fusion, MY11, 3.0L	No PATS Key Read by the PATS Control		CCM VEHICLE
B1601	2 Fusion, MY11, 3.0L	Unprogrammed PATS Key		CCM VEHICLE
P0016	2 Fusion, MY11, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0018	2 Fusion, MY11, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0030	2 Fusion, MY11, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0087	2 Fusion, MY11, 3.0L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P0100	2 Fusion, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0114	2 Fusion, MY11, 3.0L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0158	2 Fusion, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0191	2 Fusion, MY11, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0221	2 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0230	2 Fusion, MY11, 3.0L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0400	2 Fusion, MY11, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0404	2 Fusion, MY11, 3.0L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0460	2 Fusion, MY11, 3.0L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0512	2 Fusion, MY11, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P0562	2 Fusion, MY11, 3.0L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0573	2 Fusion, MY11, 3.0L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0603	2 Fusion, MY11, 3.0L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0670	2 Fusion, MY11, 3.0L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0683	2 Fusion, MY11, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0720	2 Fusion, MY11, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0741	2 Fusion, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC

P0764	2 Fusion, MY11, 3.0L	Shift Solenoid "C" Intermittent	G+	CCM TRANS ACTUATOR
P07AA	2 Fusion, MY11, 3.0L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0973	2 Fusion, MY11, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0984	2 Fusion, MY11, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P1184	2 Fusion, MY11, 3.0L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1233	2 Fusion, MY11, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1270	2 Fusion, MY11, 3.0L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1378	2 Fusion, MY11, 3.0L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1405	2 Fusion, MY11, 3.0L	Differential Pressure Feedback Sensor Upstream Hose Off Or Plugged	G*	EGR (SYSTEM)
P1408	2 Fusion, MY11, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1409	2 Fusion, MY11, 3.0L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P1633	2 Fusion, MY11, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1744	2 Fusion, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P1910	2 Fusion, MY11, 3.0L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2100	2 Fusion, MY11, 3.0L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2107	2 Fusion, MY11, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P2139	2 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2263	2 Fusion, MY11, 3.0L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2271	2 Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2273	2 Fusion, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2290	2 Fusion, MY11, 3.0L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P2452	2 Fusion, MY11, 3.0L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2617	2 Fusion, MY11, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2705	2 Fusion, MY11, 3.0L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0140	2 Fusion, MY11, 3.0L	Lost Communication With Body Control Module	G	NETWORK COMM
U0306	2 Fusion, MY11, 3.0L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
B1213	1 Fusion, MY11, 3.0L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
B1342	1 Fusion, MY11, 3.0L	ECU is Faulted	G	CCM MODULE
B1342	1 Fusion, MY11, 3.0L	ECU Is Faulted	G	CCM MODULE
B1342	1 Fusion, MY11, 3.0L	ECU is Faulted		CCM VEHICLE
B1602	1 Fusion, MY11, 3.0L	Partial PATS Key was Read		CCM VEHICLE
B2431	1 Fusion, MY11, 3.0L	Key Programming Error		CCM VEHICLE
P0023	1 Fusion, MY11, 3.0L	Exhaust (B) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0046	1 Fusion, MY11, 3.0L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0053	1 Fusion, MY11, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0068	1 Fusion, MY11, 3.0L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0069	1 Fusion, MY11, 3.0L	MAP - Barometric Pressure Correlation		CCM MAF/MAP/BARO
P006B	1 Fusion, MY11, 3.0L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P0073	1 Fusion, MY11, 3.0L	Ambient Air Temperature Sensor Circuit "A" High	G*	CCM TEMP
P007D	1 Fusion, MY11, 3.0L	Charge Air Cooler Temperature Sensor Circuit High (Bank 1)	G*	BOOST CONTROL (COMPONENT)
P0088	1 Fusion, MY11, 3.0L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0107	1 Fusion, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0111	1 Fusion, MY11, 3.0L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0132	1 Fusion, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0133	1 Fusion, MY11, 3.0L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0138	1 Fusion, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0148	1 Fusion, MY11, 3.0L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0193	1 Fusion, MY11, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0198	1 Fusion, MY11, 3.0L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0231	1 Fusion, MY11, 3.0L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)

P0232	1 Fusion, MY11, 3.0L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P025B	1 Fusion, MY11, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0261	1 Fusion, MY11, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0263	1 Fusion, MY11, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0273	1 Fusion, MY11, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0275	1 Fusion, MY11, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0276	1 Fusion, MY11, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	1 Fusion, MY11, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0284	1 Fusion, MY11, 3.0L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0308	1 Fusion, MY11, 3.0L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0325	1 Fusion, MY11, 3.0L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0381	1 Fusion, MY11, 3.0L	Glow Plug/Heater Indicator Control Circuit/Open		CCM GLOW PLUG
P0405	1 Fusion, MY11, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0442	1 Fusion, MY11, 3.0L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0472	1 Fusion, MY11, 3.0L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0473	1 Fusion, MY11, 3.0L	Exhaust Pressure Sensor "A" Circuit High		BOOST CONTROL (COMPONENT)
P0476	1 Fusion, MY11, 3.0L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0478	1 Fusion, MY11, 3.0L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P050B	1 Fusion, MY11, 3.0L	Cold Start Ignition Timing Performance	G*	CSER (COMPONENT)
P0560	1 Fusion, MY11, 3.0L	System Voltage		CCM A/C, FAN, PS, GEN
P0563	1 Fusion, MY11, 3.0L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0565	1 Fusion, MY11, 3.0L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	1 Fusion, MY11, 3.0L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	1 Fusion, MY11, 3.0L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	1 Fusion, MY11, 3.0L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	1 Fusion, MY11, 3.0L	Cruise Control COAST Signal	G	CCM VEHICLE
P0572	1 Fusion, MY11, 3.0L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0578	1 Fusion, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit Stuck	G	CCM VEHICLE
P0607	1 Fusion, MY11, 3.0L	Control Module Performance	G*	CCM MODULE
P060C	1 Fusion, MY11, 3.0L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P0610	1 Fusion, MY11, 3.0L	Control Module Vehicle Options Error	G	CCM MODULE
P061C	1 Fusion, MY11, 3.0L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0622	1 Fusion, MY11, 3.0L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P0626	1 Fusion, MY11, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P062A	1 Fusion, MY11, 3.0L	Fuel Pump "A" Control Circuit Range/Performance		FUEL (COMPONENT)
P064C	1 Fusion, MY11, 3.0L	Glow Plug Control Module 1		CCM GLOW PLUG
P0671	1 Fusion, MY11, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0672	1 Fusion, MY11, 3.0L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	1 Fusion, MY11, 3.0L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	1 Fusion, MY11, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	1 Fusion, MY11, 3.0L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	1 Fusion, MY11, 3.0L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	1 Fusion, MY11, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	1 Fusion, MY11, 3.0L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0701	1 Fusion, MY11, 3.0L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0704	1 Fusion, MY11, 3.0L	Clutch Switch Input Circuit	G	CCM VEHICLE
P0751	1 Fusion, MY11, 3.0L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0757	1 Fusion, MY11, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0759	1 Fusion, MY11, 3.0L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0761	1 Fusion, MY11, 3.0L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO

P0766	1 Fusion, MY11, 3.0L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0771	1 Fusion, MY11, 3.0L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P0772	1 Fusion, MY11, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0774	1 Fusion, MY11, 3.0L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P0782	1 Fusion, MY11, 3.0L	2-3 Shift	G^	CCM TRANS RATIO
P07A9	1 Fusion, MY11, 3.0L	Transmission Friction Element "D" Stuck On	G+	CCM TRANS RATIO
P0963	1 Fusion, MY11, 3.0L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0977	1 Fusion, MY11, 3.0L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P1111	1 Fusion, MY11, 3.0L	System Pass		NO-FAULT CODES
P1131	1 Fusion, MY11, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P115A	1 Fusion, MY11, 3.0L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P115E	1 Fusion, MY11, 3.0L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P1246	1 Fusion, MY11, 3.0L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1248	1 Fusion, MY11, 3.0L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1316	1 Fusion, MY11, 3.0L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P132B	1 Fusion, MY11, 3.0L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1336	1 Fusion, MY11, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1443	1 Fusion, MY11, 3.0L	EVAP System Control Valve (low/no flow)	G*	MONITOR - EVAP (SYSTEM)
P1501	1 Fusion, MY11, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1575	1 Fusion, MY11, 3.0L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P1635	1 Fusion, MY11, 3.0L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P1670	1 Fusion, MY11, 3.0L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1709	1 Fusion, MY11, 3.0L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P1729	1 Fusion, MY11, 3.0L	4x4L Switch	G^	4WD
P1746	1 Fusion, MY11, 3.0L	Pressure Control Solenoid "A" Open Circuit	G^	CCM TRANS ACTUATOR
P1A1B	1 Fusion, MY11, 3.0L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P2002	1 Fusion, MY11, 3.0L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2047	1 Fusion, MY11, 3.0L	Reductant Injection Valve Circuit/Open (Bank 1 Unit 1)		NOX CATALYST (COMPONENT)
P204C	1 Fusion, MY11, 3.0L	Reductant Pressure Sensor Circuit Low		NOX CATALYST (COMPONENT)
P207F	1 Fusion, MY11, 3.0L	Reductant Quality Performance		NOX CATALYST (SYSTEM)
P2097	1 Fusion, MY11, 3.0L	Post Catalyst Fuel Trim System Too Rich (Bank 1)	G*	HO2S (SYSTEM)
P20A0	1 Fusion, MY11, 3.0L	Reductant Purge Control Valve "A" Circuit /Open		NOX CATALYST (COMPONENT)
P20BC	1 Fusion, MY11, 3.0L	Reductant Heater "A" Control Circuit High		NOX CATALYST (COMPONENT)
P20C0	1 Fusion, MY11, 3.0L	Reductant Heater "B" Control Circuit High		NOX CATALYST (COMPONENT)
P20E4	1 Fusion, MY11, 3.0L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2104	1 Fusion, MY11, 3.0L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2105	1 Fusion, MY11, 3.0L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2106	1 Fusion, MY11, 3.0L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2110	1 Fusion, MY11, 3.0L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2123	1 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2128	1 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2133	1 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "F" Circuit High	G+	CCM THROTTLE/PEDAL
P2140	1 Fusion, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P2262	1 Fusion, MY11, 3.0L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2284	1 Fusion, MY11, 3.0L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P242D	1 Fusion, MY11, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 3)		EXH GAS SENSOR (SYSTEM)
P242F	1 Fusion, MY11, 3.0L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P2453	1 Fusion, MY11, 3.0L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P2506	1 Fusion, MY11, 3.0L	ECM/PCM Power Input Signal Range/Performance		CCM MODULE
P2563	1 Fusion, MY11, 3.0L	Turbocharger Boost Control Position Sensor "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)

P2614	1	Fusion, MY11, 3.0L	Camshaft Position Output Circuit/Open		CCM MODULE
P2700	1	Fusion, MY11, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2702	1	Fusion, MY11, 3.0L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0121	1	Fusion, MY11, 3.0L	Lost Communication With Anti-Lock Brake System (ABS) Control Module	G*	NETWORK COMM
U0212	1	Fusion, MY11, 3.0L	Lost Communication With Steering Column Control Module	G	NETWORK COMM
U029D	1	Fusion, MY11, 3.0L	Lost Communication With NOx Sensor "A"		EXH GAS SENSOR (COMPONENT)
U0418	1	Fusion, MY11, 3.0L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
U1039	1	Fusion, MY11, 3.0L	SCP (J1850) Invalid or Missing Data for Vehicle Speed	G*	NETWORK COMM
P1602	363	Fusion, MY12, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0442	263	Fusion, MY12, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P1260	243	Fusion, MY12, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	243	Fusion, MY12, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0456	229	Fusion, MY12, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P0016	170	Fusion, MY12, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P260F	170	Fusion, MY12, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P052A	158	Fusion, MY12, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0316	141	Fusion, MY12, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1464	139	Fusion, MY12, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0102	117	Fusion, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0113	111	Fusion, MY12, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P1285	106	Fusion, MY12, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1780	95	Fusion, MY12, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P1288	94	Fusion, MY12, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P1299	93	Fusion, MY12, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P1921	83	Fusion, MY12, 2.5L	Transmission Range Signal	G	NETWORK COMM
P0353	79	Fusion, MY12, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0706	78	Fusion, MY12, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P1289	72	Fusion, MY12, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P0707	71	Fusion, MY12, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0171	68	Fusion, MY12, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0223	65	Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0122	64	Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P1A14	64	Fusion, MY12, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P1622	61	Fusion, MY12, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0300	59	Fusion, MY12, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P2195	56	Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0297	55	Fusion, MY12, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0301	55	Fusion, MY12, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0443	55	Fusion, MY12, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0455	54	Fusion, MY12, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P1702	53	Fusion, MY12, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
U0155	53	Fusion, MY12, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0352	48	Fusion, MY12, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P1A1B	47	Fusion, MY12, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P0010	45	Fusion, MY12, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0690	45	Fusion, MY12, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0302	44	Fusion, MY12, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0451	44	Fusion, MY12, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P1703	43	Fusion, MY12, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0480	42	Fusion, MY12, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN

P0625	42 Fusion, MY12, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
U0111	42 Fusion, MY12, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
P0351	41 Fusion, MY12, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0457	41 Fusion, MY12, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
U210B	40 Fusion, MY12, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0403	38 Fusion, MY12, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0131	37 Fusion, MY12, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0135	37 Fusion, MY12, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
U0129	37 Fusion, MY12, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P0304	36 Fusion, MY12, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0446	36 Fusion, MY12, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0562	36 Fusion, MY12, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
U0101	36 Fusion, MY12, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P0420	35 Fusion, MY12, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P1A10	35 Fusion, MY12, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P0340	34 Fusion, MY12, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P1A0C	34 Fusion, MY12, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P0141	33 Fusion, MY12, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0201	33 Fusion, MY12, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P06B8	33 Fusion, MY12, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P2627	32 Fusion, MY12, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0202	31 Fusion, MY12, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0504	31 Fusion, MY12, 2.5L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P0303	30 Fusion, MY12, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0685	30 Fusion, MY12, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0203	29 Fusion, MY12, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P1450	29 Fusion, MY12, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P0204	28 Fusion, MY12, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0344	27 Fusion, MY12, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0354	25 Fusion, MY12, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0620	24 Fusion, MY12, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P2111	24 Fusion, MY12, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P025A	23 Fusion, MY12, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0770	23 Fusion, MY12, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	23 Fusion, MY12, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P0984	23 Fusion, MY12, 2.5L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P2196	22 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
U0418	22 Fusion, MY12, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P0743	21 Fusion, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0748	21 Fusion, MY12, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0463	20 Fusion, MY12, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0645	19 Fusion, MY12, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0768	19 Fusion, MY12, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P1397	19 Fusion, MY12, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1705	19 Fusion, MY12, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P2127	18 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0657	17 Fusion, MY12, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0740	17 Fusion, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0765	17 Fusion, MY12, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0772	17 Fusion, MY12, 2.5L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO

P0960	17 Fusion, MY12, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
U0109	17 Fusion, MY12, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0C2F	16 Fusion, MY12, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P0505	15 Fusion, MY12, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P068A	15 Fusion, MY12, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0708	15 Fusion, MY12, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0753	15 Fusion, MY12, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0763	15 Fusion, MY12, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0106	14 Fusion, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0116	14 Fusion, MY12, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Range/Performance	G*	CCM TEMP
P0219	14 Fusion, MY12, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P0760	14 Fusion, MY12, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P2122	14 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0011	13 Fusion, MY12, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0533	13 Fusion, MY12, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0573	13 Fusion, MY12, 2.5L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0710	13 Fusion, MY12, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0713	13 Fusion, MY12, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0722	13 Fusion, MY12, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0750	13 Fusion, MY12, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0751	13 Fusion, MY12, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0758	13 Fusion, MY12, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P2700	13 Fusion, MY12, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0341	12 Fusion, MY12, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0731	12 Fusion, MY12, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0755	12 Fusion, MY12, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0A7C	12 Fusion, MY12, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P1101	12 Fusion, MY12, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P144A	12 Fusion, MY12, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1783	12 Fusion, MY12, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0108	11 Fusion, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0130	11 Fusion, MY12, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0600	11 Fusion, MY12, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P060A	11 Fusion, MY12, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0741	11 Fusion, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P1744	11 Fusion, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2135	11 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0109	10 Fusion, MY12, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0222	10 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0400	10 Fusion, MY12, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P0720	10 Fusion, MY12, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0128	9 Fusion, MY12, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0581	9 Fusion, MY12, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P1124	9 Fusion, MY12, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P1408	9 Fusion, MY12, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
U0300	9 Fusion, MY12, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0460	8 Fusion, MY12, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P052B	8 Fusion, MY12, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0611	8 Fusion, MY12, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P2107	8 Fusion, MY12, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)

P2112	8 Fusion, MY12, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P2450	8 Fusion, MY12, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0123	7 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0461	7 Fusion, MY12, 2.5L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0A03	7 Fusion, MY12, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P1127	7 Fusion, MY12, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1290	7 Fusion, MY12, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1633	7 Fusion, MY12, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P2270	7 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0012	6 Fusion, MY12, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0068	6 Fusion, MY12, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0174	6 Fusion, MY12, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0453	6 Fusion, MY12, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0572	6 Fusion, MY12, 2.5L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0733	6 Fusion, MY12, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0867	6 Fusion, MY12, 2.5L	Transmission Fluid Pressure	G+	CCM TRANS SYSTEM
P2101	6 Fusion, MY12, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P2702	6 Fusion, MY12, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0030	5 Fusion, MY12, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0104	5 Fusion, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0272	5 Fusion, MY12, 2.5L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0284	5 Fusion, MY12, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0305	5 Fusion, MY12, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0404	5 Fusion, MY12, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0405	5 Fusion, MY12, 2.5L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0528	5 Fusion, MY12, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P061B	5 Fusion, MY12, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P061C	5 Fusion, MY12, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0627	5 Fusion, MY12, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0678	5 Fusion, MY12, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0689	5 Fusion, MY12, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0715	5 Fusion, MY12, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0717	5 Fusion, MY12, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0761	5 Fusion, MY12, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0962	5 Fusion, MY12, 2.5L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P128A	5 Fusion, MY12, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1639	5 Fusion, MY12, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P2096	5 Fusion, MY12, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2291	5 Fusion, MY12, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2701	5 Fusion, MY12, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0263	4 Fusion, MY12, 2.5L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0264	4 Fusion, MY12, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	4 Fusion, MY12, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0306	4 Fusion, MY12, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0401	4 Fusion, MY12, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0462	4 Fusion, MY12, 2.5L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0774	4 Fusion, MY12, 2.5L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P0A00	4 Fusion, MY12, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P2704	4 Fusion, MY12, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0172	3 Fusion, MY12, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)

P0269	3 Fusion, MY12, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0273	3 Fusion, MY12, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0276	3 Fusion, MY12, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	3 Fusion, MY12, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	3 Fusion, MY12, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0307	3 Fusion, MY12, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0500	3 Fusion, MY12, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	3 Fusion, MY12, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0563	3 Fusion, MY12, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0579	3 Fusion, MY12, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0603	3 Fusion, MY12, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0729	3 Fusion, MY12, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0732	3 Fusion, MY12, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0756	3 Fusion, MY12, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0767	3 Fusion, MY12, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0982	3 Fusion, MY12, 2.5L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0A18	3 Fusion, MY12, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	3 Fusion, MY12, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P0A7D	3 Fusion, MY12, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
P1536	3 Fusion, MY12, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P163F	3 Fusion, MY12, 2.5L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P1711	3 Fusion, MY12, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P2138	3 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2197	3 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2198	3 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2262	3 Fusion, MY12, 2.5L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2269	3 Fusion, MY12, 2.5L	Water in Fuel Condition		NO-FAULT CODES
P2418	3 Fusion, MY12, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P2535	3 Fusion, MY12, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
P2610	3 Fusion, MY12, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2614	3 Fusion, MY12, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P0022	2 Fusion, MY12, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0053	2 Fusion, MY12, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0103	2 Fusion, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0111	2 Fusion, MY12, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0114	2 Fusion, MY12, 2.5L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0148	2 Fusion, MY12, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0191	2 Fusion, MY12, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0193	2 Fusion, MY12, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0221	2 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P0232	2 Fusion, MY12, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P025B	2 Fusion, MY12, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0261	2 Fusion, MY12, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	2 Fusion, MY12, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0279	2 Fusion, MY12, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0281	2 Fusion, MY12, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0308	2 Fusion, MY12, 2.5L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0345	2 Fusion, MY12, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0622	2 Fusion, MY12, 2.5L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P0626	2 Fusion, MY12, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN

P0672	2 Fusion, MY12, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0703	2 Fusion, MY12, 2.5L	Brake Switch "B" Circuit		CCM VEHICLE
P0734	2 Fusion, MY12, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0735	2 Fusion, MY12, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0742	2 Fusion, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0744	2 Fusion, MY12, 2.5L	Torque Converter Clutch Solenoid Circuit Intermittent	G*	CCM TRANS ACTUATOR
P0757	2 Fusion, MY12, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P07AA	2 Fusion, MY12, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0963	2 Fusion, MY12, 2.5L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0974	2 Fusion, MY12, 2.5L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0977	2 Fusion, MY12, 2.5L	Shift Solenoid "B" Control Circuit High	G*	CCM TRANS ACTUATOR
P0983	2 Fusion, MY12, 2.5L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P1131	2 Fusion, MY12, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1145	2 Fusion, MY12, 2.5L	Calculated Torque Error	G	ETC (SYSTEM)
P1148	2 Fusion, MY12, 2.5L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P1151	2 Fusion, MY12, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1233	2 Fusion, MY12, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1316	2 Fusion, MY12, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P1336	2 Fusion, MY12, 2.5L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1378	2 Fusion, MY12, 2.5L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1500	2 Fusion, MY12, 2.5L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1709	2 Fusion, MY12, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P20E4	2 Fusion, MY12, 2.5L	Exhaust Gas Temperature Sensor 2 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	2 Fusion, MY12, 2.5L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2100	2 Fusion, MY12, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2110	2 Fusion, MY12, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2123	2 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2128	2 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2199	2 Fusion, MY12, 2.5L	Intake Air Temperature 1 / 2 Correlation		CCM TEMP
P2263	2 Fusion, MY12, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2272	2 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2290	2 Fusion, MY12, 2.5L	Injector Control Pressure Too Low		FUEL (COMPONENT)
P2463	2 Fusion, MY12, 2.5L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	2 Fusion, MY12, 2.5L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P252F	2 Fusion, MY12, 2.5L	Engine Oil Level Too High		NO-FAULT CODES
P2617	2 Fusion, MY12, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
U0073	2 Fusion, MY12, 2.5L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0422	2 Fusion, MY12, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
B1602	1 Fusion, MY12, 2.5L	Partial PATS Key was Read		CCM VEHICLE
P0000	1 Fusion, MY12, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0046	1 Fusion, MY12, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0054	1 Fusion, MY12, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P006B	1 Fusion, MY12, 2.5L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P0088	1 Fusion, MY12, 2.5L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P008C	1 Fusion, MY12, 2.5L	Fuel Cooler Pump Control Circuit/Open		FUEL (COMPONENT)
P008E	1 Fusion, MY12, 2.5L	Fuel Cooler Pump Control Circuit High		FUEL (COMPONENT)
P00B7	1 Fusion, MY12, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0101	1 Fusion, MY12, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0112	1 Fusion, MY12, 2.5L	Intake Air Temperature Sensor 1 Circuit Low (Bank 1)	G*	CCM TEMP
P0118	1 Fusion, MY12, 2.5L	Engine Coolant Temperature Sensor 1 Circuit High	G*	CCM TEMP

P0121	1 Fusion, MY12, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P012F	1 Fusion, MY12, 2.5L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0132	1 Fusion, MY12, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0136	1 Fusion, MY12, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0150	1 Fusion, MY12, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0153	1 Fusion, MY12, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0156	1 Fusion, MY12, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0158	1 Fusion, MY12, 2.5L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0159	1 Fusion, MY12, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0190	1 Fusion, MY12, 2.5L	Fuel Rail Pressure Sensor Circuit (Bank 1)	G*	FUEL (COMPONENT)
P01A6	1 Fusion, MY12, 2.5L	Alternative Fuel Rail Pressure Sensor Circuit High		FUEL (COMPONENT)
P0205	1 Fusion, MY12, 2.5L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0206	1 Fusion, MY12, 2.5L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0230	1 Fusion, MY12, 2.5L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0231	1 Fusion, MY12, 2.5L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0236	1 Fusion, MY12, 2.5L	Turbocharger/Supercharger Boost Sensor "A" Circuit Range/Performance	G*	BOOST CONTROL (COMPONENT)
P0275	1 Fusion, MY12, 2.5L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0278	1 Fusion, MY12, 2.5L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0335	1 Fusion, MY12, 2.5L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0336	1 Fusion, MY12, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0337	1 Fusion, MY12, 2.5L	Crankshaft Position Sensor "A" Circuit Low		CCM CKP/CMP/IGNITION
P0346	1 Fusion, MY12, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0355	1 Fusion, MY12, 2.5L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P040D	1 Fusion, MY12, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0430	1 Fusion, MY12, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0452	1 Fusion, MY12, 2.5L	EVAP System Pressure Sensor/Switch Low	G*	EVAP (COMPONENT)
P0470	1 Fusion, MY12, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0472	1 Fusion, MY12, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0475	1 Fusion, MY12, 2.5L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0476	1 Fusion, MY12, 2.5L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0488	1 Fusion, MY12, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0506	1 Fusion, MY12, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0512	1 Fusion, MY12, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0529	1 Fusion, MY12, 2.5L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P0568	1 Fusion, MY12, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	1 Fusion, MY12, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P05A1	1 Fusion, MY12, 2.5L	Active Grille Air Shutter "A" Position Sensor Minimum/Maximum Stop Performa	G	CCM VEHICLE
P0605	1 Fusion, MY12, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0606	1 Fusion, MY12, 2.5L	Control Module Processor	G*	CCM MODULE
P0607	1 Fusion, MY12, 2.5L	Control Module Performance	G*	CCM MODULE
P0642	1 Fusion, MY12, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P064D	1 Fusion, MY12, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P065B	1 Fusion, MY12, 2.5L	Generator Control Circuit Range/Performance	G	CCM A/C, FAN, PS, GEN
P0673	1 Fusion, MY12, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	1 Fusion, MY12, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	1 Fusion, MY12, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0709	1 Fusion, MY12, 2.5L	Transmission Range Sensor "A" Circuit Intermittent	G*	CCM TRANS SENSOR
P0745	1 Fusion, MY12, 2.5L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0759	1 Fusion, MY12, 2.5L	Shift Solenoid "B" Intermittent	G+	CCM TRANS ACTUATOR
P0762	1 Fusion, MY12, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO

P0769	1 Fusion, MY12, 2.5L	Shift Solenoid "D" Intermittent	G+	CCM TRANS ACTUATOR
P0771	1 Fusion, MY12, 2.5L	Shift Solenoid "E" Performance/Stuck Off	G*	CCM TRANS RATIO
P07A5	1 Fusion, MY12, 2.5L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO
P07A8	1 Fusion, MY12, 2.5L	Transmission Friction Element "D" Performance/Stuck Off	G+	CCM TRANS RATIO
P0966	1 Fusion, MY12, 2.5L	Pressure Control Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0970	1 Fusion, MY12, 2.5L	Pressure Control Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0976	1 Fusion, MY12, 2.5L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	1 Fusion, MY12, 2.5L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0980	1 Fusion, MY12, 2.5L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A05	1 Fusion, MY12, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P0A92	1 Fusion, MY12, 2.5L	Hybrid Generator Performance		HYBRID
P1116	1 Fusion, MY12, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P120F	1 Fusion, MY12, 2.5L	Fuel Pressure Regulator Excessive Variation		FUEL (COMPONENT)
P1212	1 Fusion, MY12, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1235	1 Fusion, MY12, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P1237	1 Fusion, MY12, 2.5L	Fuel Pump Secondary Circuit (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1247	1 Fusion, MY12, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1276	1 Fusion, MY12, 2.5L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1383	1 Fusion, MY12, 2.5L	Camshaft Position Timing Over Retarded (Bank 1)	G*	VVT (SYSTEM)
P1400	1 Fusion, MY12, 2.5L	Differential Pressure Feedback EGR Circuit Low	G*	EGR (COMPONENT)
P1401	1 Fusion, MY12, 2.5L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1519	1 Fusion, MY12, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P160A	1 Fusion, MY12, 2.5L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P1636	1 Fusion, MY12, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P163E	1 Fusion, MY12, 2.5L	Transmission Control Module Programming Error	G*	CCM MODULE
P1646	1 Fusion, MY12, 2.5L	Linear O2 Sensor Control Chip (Bank 1)	G	HO2S (COMPONENT)
P164A	1 Fusion, MY12, 2.5L	O2 Sensor Positive Current Trim Circuit Performance (Bank 1 Sensor 1)	G	HO2S (COMPONENT)
P1670	1 Fusion, MY12, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P200E	1 Fusion, MY12, 2.5L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P2067	1 Fusion, MY12, 2.5L	Fuel Level Sensor "B" Circuit Low	G*	CCM FUEL LEVEL
P2080	1 Fusion, MY12, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P20E2	1 Fusion, MY12, 2.5L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2104	1 Fusion, MY12, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2105	1 Fusion, MY12, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2106	1 Fusion, MY12, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2271	1 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2273	1 Fusion, MY12, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P242B	1 Fusion, MY12, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P242F	1 Fusion, MY12, 2.5L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P249F	1 Fusion, MY12, 2.5L	Excessive Time To Enter Closed Loop Particulate Filter Regeneration Control		PM FILTER (SYSTEM)
P2600	1 Fusion, MY12, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2630	1 Fusion, MY12, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P2703	1 Fusion, MY12, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2705	1 Fusion, MY12, 2.5L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2760	1 Fusion, MY12, 2.5L	Torque Converter Clutch Pressure Control Solenoid Intermittent	G	CCM TRANS ACTUATOR
P2783	1 Fusion, MY12, 2.5L	Torque Converter Temperature Too High	G*	CCM TRANS TCC
P2806	1 Fusion, MY12, 2.5L	Transmission Range Sensor Alignment	G	CCM TRANS SENSOR
U0105	1 Fusion, MY12, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0306	1 Fusion, MY12, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
U101E	1 Fusion, MY12, 2.5L	Invalid Internal Control Module Monitoring Data Received from Gear Shift Mod	G	NETWORK COMM

U101F	1	Fusion, MY12, 2.5L	Invalid Internal Control Module Monitoring Data Received from Transmission Ra	G	NETWORK COMM
U1051	1	Fusion, MY12, 2.5L	SCP (J1850) Invalid or Missing Data for Brake Input	G	NETWORK COMM
P0456	464	Fusion, MY12, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1780	267	Fusion, MY12, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P0316	126	Fusion, MY12, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1602	114	Fusion, MY12, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P1260	92	Fusion, MY12, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	92	Fusion, MY12, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0341	71	Fusion, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sensc	G*	CCM CKP/CMP/IGNITION
P0022	70	Fusion, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P260F	64	Fusion, MY12, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0346	59	Fusion, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P1464	55	Fusion, MY12, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0012	39	Fusion, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0297	39	Fusion, MY12, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0305	39	Fusion, MY12, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	38	Fusion, MY12, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P1285	38	Fusion, MY12, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1299	36	Fusion, MY12, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0300	29	Fusion, MY12, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0102	28	Fusion, MY12, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P2195	28	Fusion, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2197	28	Fusion, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0304	27	Fusion, MY12, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P1288	27	Fusion, MY12, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0113	26	Fusion, MY12, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0455	24	Fusion, MY12, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P1703	24	Fusion, MY12, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P0122	22	Fusion, MY12, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	21	Fusion, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0480	21	Fusion, MY12, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P1921	21	Fusion, MY12, 3.0L	Transmission Range Signal	G	NETWORK COMM
P0706	20	Fusion, MY12, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0301	19	Fusion, MY12, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0707	18	Fusion, MY12, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P1622	18	Fusion, MY12, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0303	16	Fusion, MY12, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0345	16	Fusion, MY12, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0349	16	Fusion, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0457	16	Fusion, MY12, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P0772	16	Fusion, MY12, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0984	16	Fusion, MY12, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P0340	15	Fusion, MY12, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0344	15	Fusion, MY12, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
U210B	15	Fusion, MY12, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0141	14	Fusion, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0155	14	Fusion, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P1702	14	Fusion, MY12, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P2111	14	Fusion, MY12, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P0128	13	Fusion, MY12, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)

P0403	13 Fusion, MY12, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0443	13 Fusion, MY12, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0627	13 Fusion, MY12, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0174	12 Fusion, MY12, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0302	12 Fusion, MY12, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0171	11 Fusion, MY12, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0446	11 Fusion, MY12, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0625	11 Fusion, MY12, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P1124	11 Fusion, MY12, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P2112	11 Fusion, MY12, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P2630	11 Fusion, MY12, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0108	10 Fusion, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0123	10 Fusion, MY12, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0222	10 Fusion, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0768	10 Fusion, MY12, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P0463	9 Fusion, MY12, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0505	9 Fusion, MY12, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P0685	9 Fusion, MY12, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
U0109	9 Fusion, MY12, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0020	8 Fusion, MY12, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0135	8 Fusion, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0504	8 Fusion, MY12, 3.0L	Brake Switch "A"/"B" Correlation	G+	CCM VEHICLE
P0620	8 Fusion, MY12, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P06B8	8 Fusion, MY12, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0765	8 Fusion, MY12, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P2627	8 Fusion, MY12, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0010	7 Fusion, MY12, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0011	7 Fusion, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0206	7 Fusion, MY12, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0451	7 Fusion, MY12, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0533	7 Fusion, MY12, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0645	7 Fusion, MY12, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0657	7 Fusion, MY12, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0748	7 Fusion, MY12, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0763	7 Fusion, MY12, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P1705	7 Fusion, MY12, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P0161	6 Fusion, MY12, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0175	6 Fusion, MY12, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0356	6 Fusion, MY12, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P2196	6 Fusion, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2198	6 Fusion, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0172	5 Fusion, MY12, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P025A	5 Fusion, MY12, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0430	5 Fusion, MY12, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0461	5 Fusion, MY12, 3.0L	Fuel Level Sensor "A" Circuit Range/Performance	G*	CCM FUEL LEVEL
P0960	5 Fusion, MY12, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0962	5 Fusion, MY12, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	5 Fusion, MY12, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1127	5 Fusion, MY12, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1450	5 Fusion, MY12, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)

P1783	5 Fusion, MY12, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P2270	5 Fusion, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2272	5 Fusion, MY12, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0021	4 Fusion, MY12, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0150	4 Fusion, MY12, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0153	4 Fusion, MY12, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0205	4 Fusion, MY12, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0354	4 Fusion, MY12, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0600	4 Fusion, MY12, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P060A	4 Fusion, MY12, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0611	4 Fusion, MY12, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P0689	4 Fusion, MY12, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0690	4 Fusion, MY12, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0731	4 Fusion, MY12, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0732	4 Fusion, MY12, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0741	4 Fusion, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0743	4 Fusion, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0753	4 Fusion, MY12, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0758	4 Fusion, MY12, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0760	4 Fusion, MY12, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0770	4 Fusion, MY12, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	4 Fusion, MY12, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P1397	4 Fusion, MY12, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1639	4 Fusion, MY12, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P1744	4 Fusion, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P013A	3 Fusion, MY12, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0201	3 Fusion, MY12, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0202	3 Fusion, MY12, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0261	3 Fusion, MY12, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0264	3 Fusion, MY12, 3.0L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	3 Fusion, MY12, 3.0L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	3 Fusion, MY12, 3.0L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0273	3 Fusion, MY12, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0276	3 Fusion, MY12, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	3 Fusion, MY12, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	3 Fusion, MY12, 3.0L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0401	3 Fusion, MY12, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0460	3 Fusion, MY12, 3.0L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0528	3 Fusion, MY12, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0572	3 Fusion, MY12, 3.0L	Brake Switch "A" Circuit Low	G	CCM VEHICLE
P0626	3 Fusion, MY12, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0671	3 Fusion, MY12, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	3 Fusion, MY12, 3.0L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	3 Fusion, MY12, 3.0L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	3 Fusion, MY12, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	3 Fusion, MY12, 3.0L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0710	3 Fusion, MY12, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0735	3 Fusion, MY12, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0742	3 Fusion, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0750	3 Fusion, MY12, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR

P0751	3 Fusion, MY12, 3.0L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0976	3 Fusion, MY12, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	3 Fusion, MY12, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1101	3 Fusion, MY12, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P1489	3 Fusion, MY12, 3.0L	PCV Heater Control Circuit	G	PCV
P163E	3 Fusion, MY12, 3.0L	Transmission Control Module Programming Error	G*	CCM MODULE
P2285	3 Fusion, MY12, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2704	3 Fusion, MY12, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0105	3 Fusion, MY12, 3.0L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0300	3 Fusion, MY12, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
U0306	3 Fusion, MY12, 3.0L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
P0016	2 Fusion, MY12, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0018	2 Fusion, MY12, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0054	2 Fusion, MY12, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0109	2 Fusion, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0130	2 Fusion, MY12, 3.0L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0193	2 Fusion, MY12, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0203	2 Fusion, MY12, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0263	2 Fusion, MY12, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0272	2 Fusion, MY12, 3.0L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0351	2 Fusion, MY12, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0355	2 Fusion, MY12, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0404	2 Fusion, MY12, 3.0L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0405	2 Fusion, MY12, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0420	2 Fusion, MY12, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0453	2 Fusion, MY12, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0488	2 Fusion, MY12, 3.0L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0500	2 Fusion, MY12, 3.0L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	2 Fusion, MY12, 3.0L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P0672	2 Fusion, MY12, 3.0L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	2 Fusion, MY12, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	2 Fusion, MY12, 3.0L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P068A	2 Fusion, MY12, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0708	2 Fusion, MY12, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0713	2 Fusion, MY12, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0715	2 Fusion, MY12, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0717	2 Fusion, MY12, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0729	2 Fusion, MY12, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0740	2 Fusion, MY12, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0755	2 Fusion, MY12, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0761	2 Fusion, MY12, 3.0L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0767	2 Fusion, MY12, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P1408	2 Fusion, MY12, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1633	2 Fusion, MY12, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P163F	2 Fusion, MY12, 3.0L	Transmission ID Block Corrupted, Not Programmed	G*	CCM MODULE
P2002	2 Fusion, MY12, 3.0L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2096	2 Fusion, MY12, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2098	2 Fusion, MY12, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P2107	2 Fusion, MY12, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P2127	2 Fusion, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL

P2269	2 Fusion, MY12, 3.0L	Water in Fuel Condition		NO-FAULT CODES
P2291	2 Fusion, MY12, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2700	2 Fusion, MY12, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2702	2 Fusion, MY12, 3.0L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0155	2 Fusion, MY12, 3.0L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0000	1 Fusion, MY12, 3.0L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0050	1 Fusion, MY12, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0087	1 Fusion, MY12, 3.0L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)
P008A	1 Fusion, MY12, 3.0L	Low Pressure Fuel System Pressure - Too Low	G	FUEL (SYSTEM)
P0103	1 Fusion, MY12, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0104	1 Fusion, MY12, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0106	1 Fusion, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0107	1 Fusion, MY12, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P012F	1 Fusion, MY12, 3.0L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P0132	1 Fusion, MY12, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0183	1 Fusion, MY12, 3.0L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0191	1 Fusion, MY12, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0194	1 Fusion, MY12, 3.0L	Fuel Rail Pressure Sensor Circuit Intermittent/Erratic (Bank 1)	G	FUEL (COMPONENT)
P0196	1 Fusion, MY12, 3.0L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0204	1 Fusion, MY12, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0219	1 Fusion, MY12, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0231	1 Fusion, MY12, 3.0L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0237	1 Fusion, MY12, 3.0L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P025B	1 Fusion, MY12, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0269	1 Fusion, MY12, 3.0L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0275	1 Fusion, MY12, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0278	1 Fusion, MY12, 3.0L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0281	1 Fusion, MY12, 3.0L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0299	1 Fusion, MY12, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0307	1 Fusion, MY12, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0352	1 Fusion, MY12, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0353	1 Fusion, MY12, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0400	1 Fusion, MY12, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0407	1 Fusion, MY12, 3.0L	EGR Sensor "B" Circuit Low		EGR (COMPONENT)
P042F	1 Fusion, MY12, 3.0L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0462	1 Fusion, MY12, 3.0L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0472	1 Fusion, MY12, 3.0L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0512	1 Fusion, MY12, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P0532	1 Fusion, MY12, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0562	1 Fusion, MY12, 3.0L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0565	1 Fusion, MY12, 3.0L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	1 Fusion, MY12, 3.0L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	1 Fusion, MY12, 3.0L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	1 Fusion, MY12, 3.0L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	1 Fusion, MY12, 3.0L	Cruise Control COAST Signal	G	CCM VEHICLE
P0573	1 Fusion, MY12, 3.0L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0578	1 Fusion, MY12, 3.0L	Cruise Control Multi-Function Input "A" Circuit Stuck	G	CCM VEHICLE
P0581	1 Fusion, MY12, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0603	1 Fusion, MY12, 3.0L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P061B	1 Fusion, MY12, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)

P0670	1 Fusion, MY12, 3.0L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0683	1 Fusion, MY12, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0700	1 Fusion, MY12, 3.0L	Transmission Control System (MIL Request)	G	CCM TRANS SYSTEM
P0703	1 Fusion, MY12, 3.0L	Brake Switch "B" Circuit		CCM VEHICLE
P0712	1 Fusion, MY12, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0720	1 Fusion, MY12, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0722	1 Fusion, MY12, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P0733	1 Fusion, MY12, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0756	1 Fusion, MY12, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0757	1 Fusion, MY12, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0766	1 Fusion, MY12, 3.0L	Shift Solenoid "D" Performance/Stuck Off	G*	CCM TRANS RATIO
P0963	1 Fusion, MY12, 3.0L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0972	1 Fusion, MY12, 3.0L	Shift Solenoid "A" Control Circuit Range/Performance		CCM TRANS RATIO
P0973	1 Fusion, MY12, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0974	1 Fusion, MY12, 3.0L	Shift Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0980	1 Fusion, MY12, 3.0L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P0983	1 Fusion, MY12, 3.0L	Shift Solenoid "D" Control Circuit High	G*	CCM TRANS ACTUATOR
P1151	1 Fusion, MY12, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1152	1 Fusion, MY12, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1233	1 Fusion, MY12, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1247	1 Fusion, MY12, 3.0L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1248	1 Fusion, MY12, 3.0L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1289	1 Fusion, MY12, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P1335	1 Fusion, MY12, 3.0L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1336	1 Fusion, MY12, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1378	1 Fusion, MY12, 3.0L	Fuel Injector Control Module System Voltage Low		FUEL (COMPONENT)
P1400	1 Fusion, MY12, 3.0L	Differential Pressure Feedback EGR Circuit Low	G*	EGR (COMPONENT)
P144A	1 Fusion, MY12, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1459	1 Fusion, MY12, 3.0L	A/C Recirculation Switch Out of Self Test Range		CCM A/C, FAN, PS, GEN
P1501	1 Fusion, MY12, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1536	1 Fusion, MY12, 3.0L	Parking Brake Switch Circuit		CCM VEHICLE
P1650	1 Fusion, MY12, 3.0L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1A0D	1 Fusion, MY12, 3.0L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P2122	1 Fusion, MY12, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2262	1 Fusion, MY12, 3.0L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2263	1 Fusion, MY12, 3.0L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P242A	1 Fusion, MY12, 3.0L	Exhaust Gas Temperature Sensor Circuit (Bank 1 Sensor 3)		EXH GAS SENSOR (COMPONENT)
P242F	1 Fusion, MY12, 3.0L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
P2452	1 Fusion, MY12, 3.0L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2463	1 Fusion, MY12, 3.0L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	1 Fusion, MY12, 3.0L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2610	1 Fusion, MY12, 3.0L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2614	1 Fusion, MY12, 3.0L	Camshaft Position Output Circuit/Open		CCM MODULE
P2617	1 Fusion, MY12, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2701	1 Fusion, MY12, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2703	1 Fusion, MY12, 3.0L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2800	1 Fusion, MY12, 3.0L	Transmission Range Sensor "B" Circuit (PRNDL Input)	G	CCM TRANS SENSOR
U0155	413 Milan, MY10, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
U0111	372 Milan, MY10, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
P2111	366 Milan, MY10, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)

U0129	366 Milan, MY10, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
U0101	357 Milan, MY10, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
P060A	347 Milan, MY10, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0A18	345 Milan, MY10, 2.5L	Motor Torque Sensor Circuit Range/Performance	G	HYBRID
P0A23	343 Milan, MY10, 2.5L	Generator Torque Sensor Circuit Range/Performance	G	HYBRID
P1602	312 Milan, MY10, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0455	241 Milan, MY10, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0456	231 Milan, MY10, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P0735	197 Milan, MY10, 2.5L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P1260	179 Milan, MY10, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	179 Milan, MY10, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0685	173 Milan, MY10, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P2112	157 Milan, MY10, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P0457	154 Milan, MY10, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P1464	133 Milan, MY10, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P144A	116 Milan, MY10, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P0102	114 Milan, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P2196	110 Milan, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P061A	109 Milan, MY10, 2.5L	Internal Control Module Torque Performance	G+	ETC (SYSTEM)
P0316	108 Milan, MY10, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0442	108 Milan, MY10, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0A7C	106 Milan, MY10, 2.5L	Motor Electronics Over Temperature	G	HYBRID
U210B	99 Milan, MY10, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0122	98 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0113	97 Milan, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P1288	95 Milan, MY10, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0223	92 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P1A1B	69 Milan, MY10, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P0130	64 Milan, MY10, 2.5L	O2 Sensor Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0729	61 Milan, MY10, 2.5L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P0562	58 Milan, MY10, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0400	56 Milan, MY10, 2.5L	EGR "A" Flow	G*	EGR (SYSTEM)
P1285	56 Milan, MY10, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0732	55 Milan, MY10, 2.5L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P1299	55 Milan, MY10, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P1921	55 Milan, MY10, 2.5L	Transmission Range Signal	G	NETWORK COMM
P1A14	55 Milan, MY10, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P2195	55 Milan, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0722	54 Milan, MY10, 2.5L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P1780	53 Milan, MY10, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P06B8	51 Milan, MY10, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P1703	50 Milan, MY10, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P260F	48 Milan, MY10, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0301	46 Milan, MY10, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P1A0C	46 Milan, MY10, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P0706	45 Milan, MY10, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P1783	44 Milan, MY10, 2.5L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0443	43 Milan, MY10, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0707	43 Milan, MY10, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0300	42 Milan, MY10, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)

P0171	38 Milan, MY10, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0600	38 Milan, MY10, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P0304	37 Milan, MY10, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P1450	37 Milan, MY10, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P0480	36 Milan, MY10, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0867	36 Milan, MY10, 2.5L	Transmission Fluid Pressure	G+	CCM TRANS SYSTEM
P1622	36 Milan, MY10, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0720	35 Milan, MY10, 2.5L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P1289	35 Milan, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P1A10	34 Milan, MY10, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P0135	33 Milan, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0625	33 Milan, MY10, 2.5L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P2101	32 Milan, MY10, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0420	31 Milan, MY10, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P1702	31 Milan, MY10, 2.5L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P0303	30 Milan, MY10, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0505	29 Milan, MY10, 2.5L	Idle Control System		CCM IDLE AIR CTRL
P0403	28 Milan, MY10, 2.5L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P2704	28 Milan, MY10, 2.5L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO
P1124	27 Milan, MY10, 2.5L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0302	25 Milan, MY10, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0219	24 Milan, MY10, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P0353	24 Milan, MY10, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0340	23 Milan, MY10, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0351	23 Milan, MY10, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0767	23 Milan, MY10, 2.5L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P1101	23 Milan, MY10, 2.5L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P0446	22 Milan, MY10, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P052A	22 Milan, MY10, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0010	21 Milan, MY10, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0463	21 Milan, MY10, 2.5L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0690	21 Milan, MY10, 2.5L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0016	20 Milan, MY10, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
U0418	20 Milan, MY10, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
P0104	19 Milan, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0141	19 Milan, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0341	19 Milan, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P052B	18 Milan, MY10, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0733	18 Milan, MY10, 2.5L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P1397	18 Milan, MY10, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P2450	17 Milan, MY10, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0203	16 Milan, MY10, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0204	16 Milan, MY10, 2.5L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0352	16 Milan, MY10, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0717	16 Milan, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0731	16 Milan, MY10, 2.5L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P1705	16 Milan, MY10, 2.5L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P0201	15 Milan, MY10, 2.5L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P068A	15 Milan, MY10, 2.5L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P2107	15 Milan, MY10, 2.5L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)

P2135	15 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P0344	14 Milan, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0620	14 Milan, MY10, 2.5L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0581	13 Milan, MY10, 2.5L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0645	13 Milan, MY10, 2.5L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P07AA	13 Milan, MY10, 2.5L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P0C2F	13 Milan, MY10, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P1639	13 Milan, MY10, 2.5L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P2627	13 Milan, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0202	12 Milan, MY10, 2.5L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0222	12 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P061C	12 Milan, MY10, 2.5L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0710	12 Milan, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0451	11 Milan, MY10, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0579	11 Milan, MY10, 2.5L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P2122	11 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0106	10 Milan, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0108	10 Milan, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0354	10 Milan, MY10, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0715	10 Milan, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0770	10 Milan, MY10, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	10 Milan, MY10, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P2127	10 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
U0109	10 Milan, MY10, 2.5L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
U0300	10 Milan, MY10, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
P0109	9 Milan, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0128	9 Milan, MY10, 2.5L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P025A	9 Milan, MY10, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0297	9 Milan, MY10, 2.5L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0607	8 Milan, MY10, 2.5L	Control Module Performance	G*	CCM MODULE
P0753	8 Milan, MY10, 2.5L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0305	7 Milan, MY10, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0401	7 Milan, MY10, 2.5L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0603	7 Milan, MY10, 2.5L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P0708	7 Milan, MY10, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0713	7 Milan, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P073A	7 Milan, MY10, 2.5L	Stuck in Gear 5		CCM TRANS RATIO
P128A	7 Milan, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1635	7 Milan, MY10, 2.5L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P2291	7 Milan, MY10, 2.5L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2702	7 Milan, MY10, 2.5L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0030	6 Milan, MY10, 2.5L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0123	6 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0148	6 Milan, MY10, 2.5L	Fuel Delivery Error	G*	FUEL (SYSTEM)
P0172	6 Milan, MY10, 2.5L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0174	6 Milan, MY10, 2.5L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0404	6 Milan, MY10, 2.5L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0460	6 Milan, MY10, 2.5L	Fuel Level Sensor "A" Circuit	G*	CCM FUEL LEVEL
P0500	6 Milan, MY10, 2.5L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	6 Milan, MY10, 2.5L	Vehicle Speed Sensor "A"	G	CCM VEHICLE

P0528	6 Milan, MY10, 2.5L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0533	6 Milan, MY10, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0605	6 Milan, MY10, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0657	6 Milan, MY10, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P072F	6 Milan, MY10, 2.5L	Stuck in Gear 4		CCM TRANS RATIO
P073B	6 Milan, MY10, 2.5L	Stuck in Gear 6		CCM TRANS RATIO
P0743	6 Milan, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0748	6 Milan, MY10, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0755	6 Milan, MY10, 2.5L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0758	6 Milan, MY10, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0760	6 Milan, MY10, 2.5L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0763	6 Milan, MY10, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0765	6 Milan, MY10, 2.5L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P0960	6 Milan, MY10, 2.5L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P0A7D	6 Milan, MY10, 2.5L	Hybrid/EV Battery Pack State of Charge Low		HYBRID
P1633	6 Milan, MY10, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1711	6 Milan, MY10, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P2701	6 Milan, MY10, 2.5L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0132	5 Milan, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0133	5 Milan, MY10, 2.5L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0261	5 Milan, MY10, 2.5L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0307	5 Milan, MY10, 2.5L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0470	5 Milan, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0512	5 Milan, MY10, 2.5L	Starter Request Circuit	G	CCM VEHICLE
P0563	5 Milan, MY10, 2.5L	System Voltage High	G	CCM A/C, FAN, PS, GEN
P0611	5 Milan, MY10, 2.5L	Fuel Injector Control Module Performance		CCM MODULE
P061B	5 Milan, MY10, 2.5L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0740	5 Milan, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0756	5 Milan, MY10, 2.5L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0768	5 Milan, MY10, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P2104	5 Milan, MY10, 2.5L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
B1601	4 Milan, MY10, 2.5L	Unprogrammed PATS Key		CCM VEHICLE
P0012	4 Milan, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0111	4 Milan, MY10, 2.5L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0138	4 Milan, MY10, 2.5L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0264	4 Milan, MY10, 2.5L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	4 Milan, MY10, 2.5L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0270	4 Milan, MY10, 2.5L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0272	4 Milan, MY10, 2.5L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0273	4 Milan, MY10, 2.5L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0276	4 Milan, MY10, 2.5L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0279	4 Milan, MY10, 2.5L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	4 Milan, MY10, 2.5L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0284	4 Milan, MY10, 2.5L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0308	4 Milan, MY10, 2.5L	Cylinder 8 Misfire Detected	G*	MISFIRE (SYSTEM)
P0405	4 Milan, MY10, 2.5L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P0453	4 Milan, MY10, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0476	4 Milan, MY10, 2.5L	Exhaust Pressure Control Valve "A" Range/Performance		BOOST CONTROL (COMPONENT)
P0478	4 Milan, MY10, 2.5L	Exhaust Pressure Control Valve "A" High		BOOST CONTROL (COMPONENT)
P0689	4 Milan, MY10, 2.5L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE

P0734	4 Milan, MY10, 2.5L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0750	4 Milan, MY10, 2.5L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P0751	4 Milan, MY10, 2.5L	Shift Solenoid "A" Performance/Stuck Off	G*	CCM TRANS RATIO
P0757	4 Milan, MY10, 2.5L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0973	4 Milan, MY10, 2.5L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0A03	4 Milan, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P1116	4 Milan, MY10, 2.5L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1293	4 Milan, MY10, 2.5L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1507	4 Milan, MY10, 2.5L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P1536	4 Milan, MY10, 2.5L	Parking Brake Switch Circuit		CCM VEHICLE
P2138	4 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2614	4 Milan, MY10, 2.5L	Camshaft Position Output Circuit/Open		CCM MODULE
P0053	3 Milan, MY10, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0054	3 Milan, MY10, 2.5L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P013A	3 Milan, MY10, 2.5L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0191	3 Milan, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0230	3 Milan, MY10, 2.5L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0231	3 Milan, MY10, 2.5L	Fuel Pump Secondary Circuit Low	G	FUEL (COMPONENT)
P0232	3 Milan, MY10, 2.5L	Fuel Pump Secondary Circuit High	G	FUEL (COMPONENT)
P0266	3 Milan, MY10, 2.5L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0299	3 Milan, MY10, 2.5L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0306	3 Milan, MY10, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0320	3 Milan, MY10, 2.5L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0325	3 Milan, MY10, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0430	3 Milan, MY10, 2.5L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0472	3 Milan, MY10, 2.5L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0541	3 Milan, MY10, 2.5L	Intake Air Heater "A" Control Low		CCM GLOW PLUG
P0627	3 Milan, MY10, 2.5L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0675	3 Milan, MY10, 2.5L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	3 Milan, MY10, 2.5L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	3 Milan, MY10, 2.5L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0701	3 Milan, MY10, 2.5L	Transmission Control System Range/Performance	G+	CCM TRANS SENSOR
P0703	3 Milan, MY10, 2.5L	Brake Switch "B" Circuit		CCM VEHICLE
P0741	3 Milan, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P1127	3 Milan, MY10, 2.5L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1131	3 Milan, MY10, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P115A	3 Milan, MY10, 2.5L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1211	3 Milan, MY10, 2.5L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1282	3 Milan, MY10, 2.5L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P1290	3 Milan, MY10, 2.5L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1565	3 Milan, MY10, 2.5L	Speed Control Command Switch Out Of Range High	G	CCM VEHICLE
P1709	3 Milan, MY10, 2.5L	Park Neutral Position Switch Out Of Self Test Range		CCM TRANS SENSOR
P1744	3 Milan, MY10, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P1A13	3 Milan, MY10, 2.5L	Hybrid Powertrain Control Module - Regenerative Braking Disabled	G	HYBRID
P2096	3 Milan, MY10, 2.5L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P2100	3 Milan, MY10, 2.5L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2105	3 Milan, MY10, 2.5L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2197	3 Milan, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2279	3 Milan, MY10, 2.5L	Intake Air System Leak	G*	FUEL (SYSTEM)
P2287	3 Milan, MY10, 2.5L	Injector Control Pressure Sensor Circuit Intermittent		FUEL (COMPONENT)

P2463	3 Milan, MY10, 2.5L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	3 Milan, MY10, 2.5L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
P2700	3 Milan, MY10, 2.5L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
B1213	2 Milan, MY10, 2.5L	Less Than Two Keys Programmed to the PATS Control		CCM VEHICLE
P0000	2 Milan, MY10, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0011	2 Milan, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0022	2 Milan, MY10, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0068	2 Milan, MY10, 2.5L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P0101	2 Milan, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0131	2 Milan, MY10, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0161	2 Milan, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0221	2 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
P025B	2 Milan, MY10, 2.5L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0263	2 Milan, MY10, 2.5L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0269	2 Milan, MY10, 2.5L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0346	2 Milan, MY10, 2.5L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0506	2 Milan, MY10, 2.5L	Idle Control System - RPM Lower Than Expected	G*	CCM IDLE AIR CTRL
P0532	2 Milan, MY10, 2.5L	A/C Refrigerant Pressure Sensor "A" Circuit Low	G	CCM A/C, FAN, PS, GEN
P0565	2 Milan, MY10, 2.5L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	2 Milan, MY10, 2.5L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	2 Milan, MY10, 2.5L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	2 Milan, MY10, 2.5L	Cruise Control SET Signal	G	CCM VEHICLE
P0569	2 Milan, MY10, 2.5L	Cruise Control COAST Signal	G	CCM VEHICLE
P060C	2 Milan, MY10, 2.5L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P060D	2 Milan, MY10, 2.5L	Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
P0670	2 Milan, MY10, 2.5L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0672	2 Milan, MY10, 2.5L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	2 Milan, MY10, 2.5L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	2 Milan, MY10, 2.5L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	2 Milan, MY10, 2.5L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	2 Milan, MY10, 2.5L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0705	2 Milan, MY10, 2.5L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0712	2 Milan, MY10, 2.5L	Transmission Fluid Temperature Sensor "A" Circuit Low	G*+	CCM TRANS SENSOR
P0762	2 Milan, MY10, 2.5L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P0774	2 Milan, MY10, 2.5L	Shift Solenoid "E" Intermittent	G+	CCM TRANS ACTUATOR
P07A5	2 Milan, MY10, 2.5L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO
P1102	2 Milan, MY10, 2.5L	Mass Air Flow Sensor In Range But Lower Than Expected		CCM MAF/MAP/BARO
P1105	2 Milan, MY10, 2.5L	Dual Alternator Upper Fault		CCM A/C, FAN, PS, GEN
P1106	2 Milan, MY10, 2.5L	Dual Alternator Lower Fault		CCM A/C, FAN, PS, GEN
P1132	2 Milan, MY10, 2.5L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1145	2 Milan, MY10, 2.5L	Calculated Torque Error	G	ETC (SYSTEM)
P1151	2 Milan, MY10, 2.5L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1233	2 Milan, MY10, 2.5L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P1273	2 Milan, MY10, 2.5L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1274	2 Milan, MY10, 2.5L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	2 Milan, MY10, 2.5L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	2 Milan, MY10, 2.5L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1280	2 Milan, MY10, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1294	2 Milan, MY10, 2.5L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1335	2 Milan, MY10, 2.5L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)

P1408	2 Milan, MY10, 2.5L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1451	2 Milan, MY10, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1474	2 Milan, MY10, 2.5L	Fan Control Primary Circuit	G	CCM A/C, FAN, PS, GEN
P1501	2 Milan, MY10, 2.5L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1531	2 Milan, MY10, 2.5L	Invalid Test - Accelerator Pedal Movement		NO-FAULT CODES
P1568	2 Milan, MY10, 2.5L	Speed Control Unable to Hold Speed		CCM VEHICLE
P1575	2 Milan, MY10, 2.5L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P2002	2 Milan, MY10, 2.5L	Particulate Filter Efficiency Below Threshold (Bank 1)		PM FILTER (SYSTEM)
P2006	2 Milan, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P2084	2 Milan, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 2)		EXH GAS SENSOR (COMPONENT)
P20E3	2 Milan, MY10, 2.5L	Exhaust Gas Temperature Sensor 1 / 3 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P20E8	2 Milan, MY10, 2.5L	Reductant Pressure Too Low		NOX CATALYST (COMPONENT)
P2110	2 Milan, MY10, 2.5L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2128	2 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2269	2 Milan, MY10, 2.5L	Water in Fuel Condition		NO-FAULT CODES
P2270	2 Milan, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2418	2 Milan, MY10, 2.5L	EVAP System Switching Valve Control Circuit/Open	G*	EVAP (COMPONENT)
P2617	2 Milan, MY10, 2.5L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2703	2 Milan, MY10, 2.5L	Transmission Friction Element "D" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2806	2 Milan, MY10, 2.5L	Transmission Range Sensor Alignment	G	CCM TRANS SENSOR
U0306	2 Milan, MY10, 2.5L	Software Incompatibility with Fuel Injector Control Module		CCM MODULE
B1600	1 Milan, MY10, 2.5L	No PATS Key Read by the PATS Control		CCM VEHICLE
B1602	1 Milan, MY10, 2.5L	Partial PATS Key was Read		CCM VEHICLE
B2103	1 Milan, MY10, 2.5L	Antenna Not Connected		CCM VEHICLE
P0001	1 Milan, MY10, 2.5L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0020	1 Milan, MY10, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0045	1 Milan, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit/Open		BOOST CONTROL (COMPONENT)
P0046	1 Milan, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P006A	1 Milan, MY10, 2.5L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P008D	1 Milan, MY10, 2.5L	Fuel Cooler Pump Control Circuit Low		FUEL (COMPONENT)
P00B7	1 Milan, MY10, 2.5L	Engine Coolant Flow Low/Performance		ENGINE COOLING (SYSTEM)
P0100	1 Milan, MY10, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit		CCM MAF/MAP/BARO
P0107	1 Milan, MY10, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO
P0114	1 Milan, MY10, 2.5L	Intake Air Temperature Sensor 1 Intermittent/Erratic (Bank 1)	G*	CCM TEMP
P0117	1 Milan, MY10, 2.5L	Engine Coolant Temperature Sensor 1 Circuit Low	G*	CCM TEMP
P0125	1 Milan, MY10, 2.5L	Insufficient Coolant Temp For Closed Loop Fuel Control	G*	ENGINE COOLING (SYSTEM)
P0150	1 Milan, MY10, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0153	1 Milan, MY10, 2.5L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0155	1 Milan, MY10, 2.5L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0156	1 Milan, MY10, 2.5L	O2 Sensor Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0183	1 Milan, MY10, 2.5L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0193	1 Milan, MY10, 2.5L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0196	1 Milan, MY10, 2.5L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0198	1 Milan, MY10, 2.5L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0205	1 Milan, MY10, 2.5L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0206	1 Milan, MY10, 2.5L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0207	1 Milan, MY10, 2.5L	Cylinder 7 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0208	1 Milan, MY10, 2.5L	Cylinder 8 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0234	1 Milan, MY10, 2.5L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0278	1 Milan, MY10, 2.5L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)

P0281	1 Milan, MY10, 2.5L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P02E0	1 Milan, MY10, 2.5L	Diesel Intake Air Flow Control Circuit/Open		EGR (COMPONENT)
P02E9	1 Milan, MY10, 2.5L	Diesel Intake Air Flow Position Sensor Circuit High		EGR (COMPONENT)
P0310	1 Milan, MY10, 2.5L	Cylinder 10 Misfire Detected	G*	MISFIRE (SYSTEM)
P0336	1 Milan, MY10, 2.5L	Crankshaft Position Sensor "A" Circuit Range/Performance	G*	CCM CKP/CMP/IGNITION
P0402	1 Milan, MY10, 2.5L	EGR "A" Flow Excessive Detected	G*	EGR (SYSTEM)
P040D	1 Milan, MY10, 2.5L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P042E	1 Milan, MY10, 2.5L	EGR "A" Control Stuck Open		EGR (COMPONENT)
P042F	1 Milan, MY10, 2.5L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0462	1 Milan, MY10, 2.5L	Fuel Level Sensor "A" Circuit Low	G*	CCM FUEL LEVEL
P0482	1 Milan, MY10, 2.5L	Fan 3 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0487	1 Milan, MY10, 2.5L	EGR Throttle Control Circuit "A" /Open		EGR (COMPONENT)
P0488	1 Milan, MY10, 2.5L	EGR Throttle Control Circuit "A" Range/Performance		EGR (COMPONENT)
P0507	1 Milan, MY10, 2.5L	Idle Control System - RPM Higher Than Expected	G*	CCM IDLE AIR CTRL
P050E	1 Milan, MY10, 2.5L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0573	1 Milan, MY10, 2.5L	Brake Switch "A" Circuit High	G*	CCM VEHICLE
P0606	1 Milan, MY10, 2.5L	Control Module Processor	G*	CCM MODULE
P060B	1 Milan, MY10, 2.5L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P0626	1 Milan, MY10, 2.5L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0642	1 Milan, MY10, 2.5L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P064D	1 Milan, MY10, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P064E	1 Milan, MY10, 2.5L	Internal Control Module O2 Sensor Processor Performance (Bank 2)	G*	HO2S (COMPONENT)
P0671	1 Milan, MY10, 2.5L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0718	1 Milan, MY10, 2.5L	Input/Turbine Shaft Speed Sensor "A" Circuit Intermittent	G+	CCM TRANS SENSOR
P072E	1 Milan, MY10, 2.5L	Stuck in Gear 3		CCM TRANS RATIO
P0745	1 Milan, MY10, 2.5L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0752	1 Milan, MY10, 2.5L	Shift Solenoid "A" Stuck On	G*	CCM TRANS RATIO
P0754	1 Milan, MY10, 2.5L	Shift Solenoid "A" Intermittent	G+	CCM TRANS ACTUATOR
P0761	1 Milan, MY10, 2.5L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0764	1 Milan, MY10, 2.5L	Shift Solenoid "C" Intermittent	G+	CCM TRANS ACTUATOR
P0796	1 Milan, MY10, 2.5L	Pressure Control Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0972	1 Milan, MY10, 2.5L	Shift Solenoid "A" Control Circuit Range/Performance		CCM TRANS RATIO
P0980	1 Milan, MY10, 2.5L	Shift Solenoid "C" Control Circuit High	G*	CCM TRANS ACTUATOR
P0A00	1 Milan, MY10, 2.5L	Motor Electronics Coolant Temperature Sensor Circuit	G	HYBRID
P0A05	1 Milan, MY10, 2.5L	Motor Electronics Coolant Pump "A" Control Circuit/Open	G	HYBRID
P1001	1 Milan, MY10, 2.5L	KOER Not Able to Complete, KOER Aborted		NO-FAULT CODES
P1111	1 Milan, MY10, 2.5L	System Pass		NO-FAULT CODES
P115E	1 Milan, MY10, 2.5L	Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
P117B	1 Milan, MY10, 2.5L	Exhaust Gas Temperature Sensor Correlation (Bank 1)		EXH GAS SENSOR (SYSTEM)
P1184	1 Milan, MY10, 2.5L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1212	1 Milan, MY10, 2.5L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1235	1 Milan, MY10, 2.5L	Fuel Pump Control Out Of Range (Fuel Pump Driver Module/VLCM)	G*	FUEL (COMPONENT)
P123C	1 Milan, MY10, 2.5L	Cold Start Turbocharger Protection - Forced Limited Power		BOOST CONTROL (SYSTEM)
P1247	1 Milan, MY10, 2.5L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1248	1 Milan, MY10, 2.5L	Turbocharger Boost Pressure Not Detected		BOOST CONTROL (SYSTEM)
P1249	1 Milan, MY10, 2.5L	Wastegate Control Valve "A" Performance		BOOST CONTROL (SYSTEM)
P1270	1 Milan, MY10, 2.5L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1271	1 Milan, MY10, 2.5L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1272	1 Milan, MY10, 2.5L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1276	1 Milan, MY10, 2.5L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)

P1278	1 Milan, MY10, 2.5L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1316	1 Milan, MY10, 2.5L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P132B	1 Milan, MY10, 2.5L	Turbocharger/Supercharger Boost Control "A" Performance		BOOST CONTROL (COMPONENT)
P1379	1 Milan, MY10, 2.5L	Fuel Injector Control Module System Voltage High		FUEL (COMPONENT)
P1383	1 Milan, MY10, 2.5L	Camshaft Position Timing Over Retarded (Bank 1)	G*	VVT (SYSTEM)
P1401	1 Milan, MY10, 2.5L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1409	1 Milan, MY10, 2.5L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P1460	1 Milan, MY10, 2.5L	Wide Open Throttle A/C Cutout Circuit	G	CCM A/C, FAN, PS, GEN
P1500	1 Milan, MY10, 2.5L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1504	1 Milan, MY10, 2.5L	Idle Air Control Circuit	G*	CCM IDLE AIR CTRL
P1506	1 Milan, MY10, 2.5L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1519	1 Milan, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P1549	1 Milan, MY10, 2.5L	Intake Manifold Communication Control Circuit (Bank 1)	G	CCM IMRC/IMCC
P1572	1 Milan, MY10, 2.5L	Brake Pedal Switch Circuit	G	CCM VEHICLE
P1636	1 Milan, MY10, 2.5L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P1646	1 Milan, MY10, 2.5L	Linear O2 Sensor Control Chip (Bank 1)	G	HO2S (COMPONENT)
P1647	1 Milan, MY10, 2.5L	Linear O2 Sensor Control Chip (Bank 2)	G	HO2S (COMPONENT)
P1670	1 Milan, MY10, 2.5L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1746	1 Milan, MY10, 2.5L	Pressure Control Solenoid "A" Open Circuit	G^	CCM TRANS ACTUATOR
P1747	1 Milan, MY10, 2.5L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P1754	1 Milan, MY10, 2.5L	Coast Clutch Solenoid Circuit	G^	CCM TRANS ACTUATOR
P1760	1 Milan, MY10, 2.5L	Pressure Control Solenoid "A" Short Circuit Intermittent	G^	CCM TRANS ACTUATOR
P1788	1 Milan, MY10, 2.5L	Pressure Control Solenoid "B" Open Circuit	G^	CCM TRANS ACTUATOR
P1A0D	1 Milan, MY10, 2.5L	Hybrid Powertrain Control Module - Generator Disabled	G	HYBRID
P2007	1 Milan, MY10, 2.5L	Intake Manifold Runner Control Stuck Closed (Bank 2)	G	CCM IMRC/IMCC
P200C	1 Milan, MY10, 2.5L	Particulate Filter Over Temperature (Bank 1)		PM FILTER (SYSTEM)
P200E	1 Milan, MY10, 2.5L	Catalyst System Over Temperature (Bank 1)		CATALYST (SYSTEM)
P202D	1 Milan, MY10, 2.5L	Reductant Leakage		NOX CATALYST (SYSTEM)
P2033	1 Milan, MY10, 2.5L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P203A	1 Milan, MY10, 2.5L	Reductant Level Sensor "A" Circuit		NOX CATALYST (COMPONENT)
P2043	1 Milan, MY10, 2.5L	Reductant Temperature Sensor Circuit Range/Performance		NOX CATALYST (COMPONENT)
P2047	1 Milan, MY10, 2.5L	Reductant Injection Valve Circuit/Open (Bank 1 Unit 1)		NOX CATALYST (COMPONENT)
P204C	1 Milan, MY10, 2.5L	Reductant Pressure Sensor Circuit Low		NOX CATALYST (COMPONENT)
P205D	1 Milan, MY10, 2.5L	Reductant Tank Temperature Sensor Circuit High		NOX CATALYST (COMPONENT)
P2067	1 Milan, MY10, 2.5L	Fuel Level Sensor "B" Circuit Low	G*	CCM FUEL LEVEL
P208A	1 Milan, MY10, 2.5L	Reductant Pump "A" Control Circuit/Open		NOX CATALYST (COMPONENT)
P20A0	1 Milan, MY10, 2.5L	Reductant Purge Control Valve "A" Circuit /Open		NOX CATALYST (COMPONENT)
P20B9	1 Milan, MY10, 2.5L	Reductant Heater "A" Control Circuit/Open		NOX CATALYST (COMPONENT)
P20BC	1 Milan, MY10, 2.5L	Reductant Heater "A" Control Circuit High		NOX CATALYST (COMPONENT)
P20BD	1 Milan, MY10, 2.5L	Reductant Heater "B" Control Circuit/Open		NOX CATALYST (COMPONENT)
P20C0	1 Milan, MY10, 2.5L	Reductant Heater "B" Control Circuit High		NOX CATALYST (COMPONENT)
P2106	1 Milan, MY10, 2.5L	Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
P2123	1 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2131	1 Milan, MY10, 2.5L	Throttle/Pedal Position Sensor/Switch "F" Circuit Range/Performance	G	CCM THROTTLE/PEDAL
P2198	1 Milan, MY10, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2262	1 Milan, MY10, 2.5L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2263	1 Milan, MY10, 2.5L	Turbocharger/Supercharger Boost System Performance		BOOST CONTROL (SYSTEM)
P2284	1 Milan, MY10, 2.5L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2285	1 Milan, MY10, 2.5L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P2290	1 Milan, MY10, 2.5L	Injector Control Pressure Too Low		FUEL (COMPONENT)

P2425	1	Milan, MY10, 2.5L	EGR Cooling Valve Control Circuit/Open		EGR (COMPONENT)
P2452	1	Milan, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P2453	1	Milan, MY10, 2.5L	Particulate Filter Pressure Sensor "A" Circuit Range/Performance		PM FILTER (COMPONENT)
P249C	1	Milan, MY10, 2.5L	Excessive Time To Enter Closed Loop Reductant Injection Control		NOX CATALYST (SYSTEM)
P2503	1	Milan, MY10, 2.5L	Charging System Voltage Low		CCM A/C, FAN, PS, GEN
P251A	1	Milan, MY10, 2.5L	PTO Enable Switch Circuit/Open		CCM VEHICLE
P2533	1	Milan, MY10, 2.5L	Ignition Switch Run/Start Position Circuit	G	CCM VEHICLE
P2535	1	Milan, MY10, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
P2539	1	Milan, MY10, 2.5L	Low Pressure Fuel System Sensor Circuit		FUEL (COMPONENT)
P2600	1	Milan, MY10, 2.5L	Coolant Pump "A" Control Circuit/Open	G	CCM A/C, FAN, PS, GEN
P2610	1	Milan, MY10, 2.5L	ECM/PCM Engine Off Timer Performance	G*	CCM MODULE
P2630	1	Milan, MY10, 2.5L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P268B	1	Milan, MY10, 2.5L	High Pressure Fuel Pump Calibration Not Learned/Programmed		NO-FAULT CODES
P2705	1	Milan, MY10, 2.5L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO
P2801	1	Milan, MY10, 2.5L	Transmission Range Sensor "B" Circuit Range/Performance	G	CCM TRANS SENSOR
P2802	1	Milan, MY10, 2.5L	Transmission Range Sensor "B" Circuit Low	G	CCM TRANS SENSOR
U0105	1	Milan, MY10, 2.5L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0422	1	Milan, MY10, 2.5L	Invalid Data Received from Body Control Module	G	NETWORK COMM
U1039	1	Milan, MY10, 2.5L	SCP (J1850) Invalid or Missing Data for Vehicle Speed	G*	NETWORK COMM
P0456	851	Milan, MY10, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P2111	723	Milan, MY10, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P2112	612	Milan, MY10, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P1602	285	Milan, MY10, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0122	255	Milan, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	253	Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P1260	208	Milan, MY10, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	208	Milan, MY10, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1464	194	Milan, MY10, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0341	189	Milan, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 1 or single sens	G*	CCM CKP/CMP/IGNITION
P0022	171	Milan, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0346	167	Milan, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0685	164	Milan, MY10, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0735	162	Milan, MY10, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0316	156	Milan, MY10, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0012	143	Milan, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0455	131	Milan, MY10, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P1288	114	Milan, MY10, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P2101	97	Milan, MY10, 3.0L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P0102	87	Milan, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0113	85	Milan, MY10, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P2196	81	Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2198	81	Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P1124	69	Milan, MY10, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P2197	65	Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0457	64	Milan, MY10, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P2195	63	Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P1703	58	Milan, MY10, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
U210B	56	Milan, MY10, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P0505	53	Milan, MY10, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P0104	47	Milan, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO

P0174	42 Milan, MY10, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0171	41 Milan, MY10, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0300	40 Milan, MY10, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0304	39 Milan, MY10, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P06B8	39 Milan, MY10, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P260F	39 Milan, MY10, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0732	37 Milan, MY10, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0443	36 Milan, MY10, 3.0L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0155	34 Milan, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P1397	34 Milan, MY10, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P0305	33 Milan, MY10, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P1285	33 Milan, MY10, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P0306	32 Milan, MY10, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P1622	31 Milan, MY10, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P1127	30 Milan, MY10, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1299	30 Milan, MY10, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0403	29 Milan, MY10, 3.0L	EGR "A" Control Circuit/Open	G*	EGR (COMPONENT)
P0355	28 Milan, MY10, 3.0L	Ignition Coil "E" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0303	27 Milan, MY10, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0729	27 Milan, MY10, 3.0L	Gear 6 Incorrect Ratio	G*+	CCM TRANS RATIO (SYSTEM)
P2630	27 Milan, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0345	26 Milan, MY10, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0301	25 Milan, MY10, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P1450	25 Milan, MY10, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P1921	25 Milan, MY10, 3.0L	Transmission Range Signal	G	NETWORK COMM
P0010	24 Milan, MY10, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P2627	24 Milan, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit Low (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0706	23 Milan, MY10, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0108	21 Milan, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0135	21 Milan, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0020	20 Milan, MY10, 3.0L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 2)	G*	VVT (COMPONENT)
P0480	20 Milan, MY10, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0627	20 Milan, MY10, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0767	20 Milan, MY10, 3.0L	Shift Solenoid "D" Stuck On	G*	CCM TRANS RATIO
P0707	19 Milan, MY10, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0722	19 Milan, MY10, 3.0L	Output Shaft Speed Sensor Circuit No Signal	G+	CCM TRANS SENSOR
P013A	18 Milan, MY10, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0354	18 Milan, MY10, 3.0L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P1489	18 Milan, MY10, 3.0L	PCV Heater Control Circuit	G	PCV
P1783	18 Milan, MY10, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P0349	17 Milan, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0446	17 Milan, MY10, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0720	17 Milan, MY10, 3.0L	Output Shaft Speed Sensor Circuit	G*+	CCM TRANS SENSOR
P0733	17 Milan, MY10, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0205	16 Milan, MY10, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0206	16 Milan, MY10, 3.0L	Cylinder 6 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0175	15 Milan, MY10, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0356	15 Milan, MY10, 3.0L	Ignition Coil "F" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P07AA	15 Milan, MY10, 3.0L	Transmission Friction Element "E" Performance/Stuck Off	G+	CCM TRANS RATIO
P2704	15 Milan, MY10, 3.0L	Transmission Friction Element "E" Apply Time Range/Performance	G+	CCM TRANS RATIO

P1289	14 Milan, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P1702	14 Milan, MY10, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P1705	14 Milan, MY10, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
U0109	14 Milan, MY10, 3.0L	Lost Communication With Fuel Pump Control Module "A"	G*	FUEL (COMPONENT)
P0153	13 Milan, MY10, 3.0L	O2 Sensor Circuit Slow Response (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0204	13 Milan, MY10, 3.0L	Cylinder 4 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P2127	13 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0172	12 Milan, MY10, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0201	12 Milan, MY10, 3.0L	Cylinder 1 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0297	12 Milan, MY10, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P0302	12 Milan, MY10, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0340	12 Milan, MY10, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0753	12 Milan, MY10, 3.0L	Shift Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P2122	12 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P0141	11 Milan, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0161	11 Milan, MY10, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0222	11 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P0344	11 Milan, MY10, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0717	11 Milan, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0202	10 Milan, MY10, 3.0L	Cylinder 2 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0203	10 Milan, MY10, 3.0L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P025A	10 Milan, MY10, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0625	10 Milan, MY10, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0690	10 Milan, MY10, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P0750	10 Milan, MY10, 3.0L	Shift Solenoid "A"	G*	CCM TRANS ACTUATOR
P1101	10 Milan, MY10, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P1711	10 Milan, MY10, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P0054	9 Milan, MY10, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0133	9 Milan, MY10, 3.0L	O2 Sensor Circuit Slow Response (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0620	9 Milan, MY10, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0657	9 Milan, MY10, 3.0L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0715	9 Milan, MY10, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0743	9 Milan, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0758	9 Milan, MY10, 3.0L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P144A	9 Milan, MY10, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P0463	8 Milan, MY10, 3.0L	Fuel Level Sensor "A" Circuit High	G*	CCM FUEL LEVEL
P0581	8 Milan, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0645	8 Milan, MY10, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P072F	8 Milan, MY10, 3.0L	Stuck in Gear 4		CCM TRANS RATIO
P0731	8 Milan, MY10, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P073A	8 Milan, MY10, 3.0L	Stuck in Gear 5		CCM TRANS RATIO
P073B	8 Milan, MY10, 3.0L	Stuck in Gear 6		CCM TRANS RATIO
P0770	8 Milan, MY10, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	8 Milan, MY10, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P2135	8 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P2291	8 Milan, MY10, 3.0L	Injector Control Pressure Too Low - Engine Cranking		FUEL (COMPONENT)
P2701	8 Milan, MY10, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0219	7 Milan, MY10, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0330	7 Milan, MY10, 3.0L	Knock/Combustion Vibration Sensor 2 Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0351	7 Milan, MY10, 3.0L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION

P0579	7 Milan, MY10, 3.0L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P060A	7 Milan, MY10, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0740	7 Milan, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0748	7 Milan, MY10, 3.0L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0755	7 Milan, MY10, 3.0L	Shift Solenoid "B"	G*	CCM TRANS ACTUATOR
P0768	7 Milan, MY10, 3.0L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P1633	7 Milan, MY10, 3.0L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1635	7 Milan, MY10, 3.0L	Tire/Axle Out of Acceptable Range	G*	CCM VEHICLE
P2273	7 Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P0150	6 Milan, MY10, 3.0L	O2 Sensor Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0605	6 Milan, MY10, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0763	6 Milan, MY10, 3.0L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0765	6 Milan, MY10, 3.0L	Shift Solenoid "D"	G*	CCM TRANS ACTUATOR
P2096	6 Milan, MY10, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 1)	G*	HO2S (SYSTEM)
P0011	5 Milan, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0109	5 Milan, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0128	5 Milan, MY10, 3.0L	Coolant Thermostat (Coolant Temp Below Thermostat Regulating Temperature)	G*	ENGINE COOLING (SYSTEM)
P0400	5 Milan, MY10, 3.0L	EGR "A" Flow	G*	EGR (SYSTEM)
P0420	5 Milan, MY10, 3.0L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0430	5 Milan, MY10, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0528	5 Milan, MY10, 3.0L	Fan Speed Sensor Circuit No Signal	G	CCM A/C, FAN, PS, GEN
P0708	5 Milan, MY10, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0960	5 Milan, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit/Open	G*	CCM TRANS ACTUATOR
P1316	5 Milan, MY10, 3.0L	Injector Driver Module Codes Detected		FUEL (COMPONENT)
P2138	5 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"E" Voltage Correlation	G*+	CCM THROTTLE/PEDAL
P2270	5 Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2272	5 Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 2)	G*	HO2S (SYSTEM)
P2702	5 Milan, MY10, 3.0L	Transmission Friction Element "C" Apply Time Range/Performance	G+	CCM TRANS RATIO
P0016	4 Milan, MY10, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0021	4 Milan, MY10, 3.0L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 2)	G*	VVT (SYSTEM)
P0106	4 Milan, MY10, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P025B	4 Milan, MY10, 3.0L	Fuel Pump Module "A" Control Circuit Range/Performance	G*	FUEL (COMPONENT)
P0404	4 Milan, MY10, 3.0L	EGR "A" Control Circuit Range/Performance		EGR (COMPONENT)
P0451	4 Milan, MY10, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0569	4 Milan, MY10, 3.0L	Cruise Control COAST Signal	G	CCM VEHICLE
P0603	4 Milan, MY10, 3.0L	Internal Control Module Keep Alive Memory (KAM) Error	G*	CCM MODULE
P068A	4 Milan, MY10, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0710	4 Milan, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit	G+	CCM TRANS SENSOR
P0742	4 Milan, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0760	4 Milan, MY10, 3.0L	Shift Solenoid "C"	G*	CCM TRANS ACTUATOR
P0973	4 Milan, MY10, 3.0L	Shift Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1184	4 Milan, MY10, 3.0L	Engine Oil Temperature Sensor Out Of Self Test Range		CCM TEMP
P1280	4 Milan, MY10, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P1639	4 Milan, MY10, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P2107	4 Milan, MY10, 3.0L	Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
P2271	4 Milan, MY10, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P2463	4 Milan, MY10, 3.0L	Particulate Filter Restriction - Soot Accumulation (Bank 1)		PM FILTER (COMPONENT)
P246C	4 Milan, MY10, 3.0L	Particulate Filter Restriction - Forced Limited Power (Bank 1)		PM FILTER (SYSTEM)
U0155	4 Milan, MY10, 3.0L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
P0087	3 Milan, MY10, 3.0L	Fuel Rail/System Pressure - Too Low (Bank 1)	G*	FUEL (SYSTEM)

P0131	3 Milan, MY10, 3.0L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0138	3 Milan, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0266	3 Milan, MY10, 3.0L	Cylinder 2 Contribution/Balance		FUEL (COMPONENT)
P0272	3 Milan, MY10, 3.0L	Cylinder 4 Contribution/Balance		FUEL (COMPONENT)
P0273	3 Milan, MY10, 3.0L	Cylinder 5 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0282	3 Milan, MY10, 3.0L	Cylinder 8 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0284	3 Milan, MY10, 3.0L	Cylinder 8 Contribution/Balance		FUEL (COMPONENT)
P0352	3 Milan, MY10, 3.0L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0401	3 Milan, MY10, 3.0L	EGR "A" Flow Insufficient Detected	G*	EGR (SYSTEM)
P0533	3 Milan, MY10, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0565	3 Milan, MY10, 3.0L	Cruise Control ON Signal	G	CCM VEHICLE
P0566	3 Milan, MY10, 3.0L	Cruise Control OFF Signal	G	CCM VEHICLE
P0567	3 Milan, MY10, 3.0L	Cruise Control RESUME Signal	G	CCM VEHICLE
P0568	3 Milan, MY10, 3.0L	Cruise Control SET Signal	G	CCM VEHICLE
P0600	3 Milan, MY10, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P0607	3 Milan, MY10, 3.0L	Control Module Performance	G*	CCM MODULE
P0626	3 Milan, MY10, 3.0L	Generator Field/F Terminal Circuit High	G	CCM A/C, FAN, PS, GEN
P0642	3 Milan, MY10, 3.0L	Sensor Reference Voltage "A" Circuit Low	G*	CCM MODULE
P0670	3 Milan, MY10, 3.0L	Glow Plug Control Module 1 Control Circuit/Open		CCM GLOW PLUG
P0734	3 Milan, MY10, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P0741	3 Milan, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0756	3 Milan, MY10, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0815	3 Milan, MY10, 3.0L	Upshift Switch Circuit	G+	CCM TRANS SENSOR
P0816	3 Milan, MY10, 3.0L	Downshift Switch Circuit	G+	CCM TRANS SENSOR
P0962	3 Milan, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0976	3 Milan, MY10, 3.0L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	3 Milan, MY10, 3.0L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	3 Milan, MY10, 3.0L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P1273	3 Milan, MY10, 3.0L	Cylinder 3 High To Low Side Open	G*	FUEL (COMPONENT)
P1335	3 Milan, MY10, 3.0L	EGR Position Sensor "A" Minimum/Maximum Stop Performance		EGR (COMPONENT)
P1744	3 Milan, MY10, 3.0L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P1780	3 Milan, MY10, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P1910	3 Milan, MY10, 3.0L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2285	3 Milan, MY10, 3.0L	Injector Control Pressure Sensor Circuit Low		FUEL (COMPONENT)
P242F	3 Milan, MY10, 3.0L	Particulate Filter Restriction - Ash Accumulation (Bank 1)		PM FILTER (SYSTEM)
U0300	3 Milan, MY10, 3.0L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
B1342	2 Milan, MY10, 3.0L	ECU is Faulted	G	CCM MODULE
B1342	2 Milan, MY10, 3.0L	ECU Is Faulted	G	CCM MODULE
B1342	2 Milan, MY10, 3.0L	ECU is Faulted		CCM VEHICLE
P0000	2 Milan, MY10, 3.0L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0088	2 Milan, MY10, 3.0L	Fuel Rail/System Pressure - Too High (Bank 1)	G*	FUEL (SYSTEM)
P0101	2 Milan, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Range/Performance	G*	CCM MAF/MAP/BARO
P0123	2 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0151	2 Milan, MY10, 3.0L	O2 Sensor Circuit Low Voltage (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0196	2 Milan, MY10, 3.0L	Engine Oil Temperature Sensor "A" Range/Performance	G*	CCM TEMP
P0198	2 Milan, MY10, 3.0L	Engine Oil Temperature Sensor "A" Circuit High	G*	CCM TEMP
P0230	2 Milan, MY10, 3.0L	Fuel Pump Primary Circuit	G	FUEL (COMPONENT)
P0261	2 Milan, MY10, 3.0L	Cylinder 1 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0264	2 Milan, MY10, 3.0L	Cylinder 2 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0267	2 Milan, MY10, 3.0L	Cylinder 3 Injector "A" Circuit Low	G*	FUEL (COMPONENT)

P0269	2 Milan, MY10, 3.0L	Cylinder 3 Contribution/Balance		FUEL (COMPONENT)
P0270	2 Milan, MY10, 3.0L	Cylinder 4 Injector "A" Circuit Low	G*	FUEL (COMPONENT)
P0276	2 Milan, MY10, 3.0L	Cylinder 6 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0278	2 Milan, MY10, 3.0L	Cylinder 6 Contribution/Balance		FUEL (COMPONENT)
P0279	2 Milan, MY10, 3.0L	Cylinder 7 Injector "A" Circuit Low	G	FUEL (COMPONENT)
P0299	2 Milan, MY10, 3.0L	Turbocharger/Supercharger "A" Underboost Condition	G	BOOST CONTROL (SYSTEM)
P0380	2 Milan, MY10, 3.0L	Glow Plug/Heater Circuit A		CCM GLOW PLUG
P042F	2 Milan, MY10, 3.0L	EGR "A" Control Stuck Closed		EGR (COMPONENT)
P0472	2 Milan, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit Low		BOOST CONTROL (COMPONENT)
P0475	2 Milan, MY10, 3.0L	Exhaust Pressure Control Valve "A"		BOOST CONTROL (COMPONENT)
P0512	2 Milan, MY10, 3.0L	Starter Request Circuit	G	CCM VEHICLE
P0611	2 Milan, MY10, 3.0L	Fuel Injector Control Module Performance		CCM MODULE
P061C	2 Milan, MY10, 3.0L	Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
P0643	2 Milan, MY10, 3.0L	Sensor Reference Voltage "A" Circuit High	G*	CCM MODULE
P0671	2 Milan, MY10, 3.0L	Cylinder 1 Glow Plug Circuit/Open		CCM GLOW PLUG
P0675	2 Milan, MY10, 3.0L	Cylinder 5 Glow Plug Circuit/Open		CCM GLOW PLUG
P0678	2 Milan, MY10, 3.0L	Cylinder 8 Glow Plug Circuit/Open		CCM GLOW PLUG
P0689	2 Milan, MY10, 3.0L	ECM/PCM Power Relay Sense Circuit Low	G	CCM MODULE
P0703	2 Milan, MY10, 3.0L	Brake Switch "B" Circuit		CCM VEHICLE
P0713	2 Milan, MY10, 3.0L	Transmission Fluid Temperature Sensor "A" Circuit High	G*+	CCM TRANS SENSOR
P0761	2 Milan, MY10, 3.0L	Shift Solenoid "C" Performance/Stuck Off	G*	CCM TRANS RATIO
P0762	2 Milan, MY10, 3.0L	Shift Solenoid "C" Stuck On	G*	CCM TRANS RATIO
P1111	2 Milan, MY10, 3.0L	System Pass		NO-FAULT CODES
P1116	2 Milan, MY10, 3.0L	Engine Coolant Temperature Sensor Out Of Self Test Range		CCM TEMP
P1119	2 Milan, MY10, 3.0L	Manifold Air Temperature Circuit High		CCM TEMP
P1131	2 Milan, MY10, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1137	2 Milan, MY10, 3.0L	Lack Of HO2S12 Switches - Sensor Indicates Lean		HO2S (SYSTEM)
P1151	2 Milan, MY10, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Lean	G*	HO2S (SYSTEM)
P1152	2 Milan, MY10, 3.0L	Lack Of HO2S21 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1211	2 Milan, MY10, 3.0L	Injector Control Pressure Higher/Lower Than Desired (engine running)		FUEL (COMPONENT)
P1247	2 Milan, MY10, 3.0L	Turbocharger Boost Pressure Low		BOOST CONTROL (SYSTEM)
P1271	2 Milan, MY10, 3.0L	Cylinder 1 High To Low Side Open	G*	FUEL (COMPONENT)
P1274	2 Milan, MY10, 3.0L	Cylinder 4 High To Low Side Open	G*	FUEL (COMPONENT)
P1275	2 Milan, MY10, 3.0L	Cylinder 5 High To Low Side Open	G*	FUEL (COMPONENT)
P1277	2 Milan, MY10, 3.0L	Cylinder 7 High To Low Side Open	G*	FUEL (COMPONENT)
P1282	2 Milan, MY10, 3.0L	Injector Control Pressure Higher Than Desired (engine running)		FUEL (COMPONENT)
P128A	2 Milan, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1293	2 Milan, MY10, 3.0L	Injector High Side Open (Bank 1)		FUEL (COMPONENT)
P1294	2 Milan, MY10, 3.0L	Injector High Side Open (Bank 2)		FUEL (COMPONENT)
P1408	2 Milan, MY10, 3.0L	EGR Flow Out Of Self Test Range		EGR (COMPONENT)
P1536	2 Milan, MY10, 3.0L	Parking Brake Switch Circuit		CCM VEHICLE
P1690	2 Milan, MY10, 3.0L	Wastegate Solenoid Circuit		BOOST CONTROL (COMPONENT)
P2006	2 Milan, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 1)	G	CCM IMRC/IMCC
P2100	2 Milan, MY10, 3.0L	Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
P2105	2 Milan, MY10, 3.0L	Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
P2128	2 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit High	G*+	CCM THROTTLE/PEDAL
P2262	2 Milan, MY10, 3.0L	Turbocharger/Supercharger Boost Pressure Not Detected - Mechanical		BOOST CONTROL (SYSTEM)
P2284	2 Milan, MY10, 3.0L	Injector Control Pressure Sensor Circuit Range/Performance		FUEL (COMPONENT)
P2452	2 Milan, MY10, 3.0L	Particulate Filter Pressure Sensor "A" Circuit		PM FILTER (COMPONENT)
P252F	2 Milan, MY10, 3.0L	Engine Oil Level Too High		NO-FAULT CODES

U0101	2 Milan, MY10, 3.0L	Lost Communication with TCM	G*	NETWORK COMM
U0418	2 Milan, MY10, 3.0L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
U0422	2 Milan, MY10, 3.0L	Invalid Data Received from Body Control Module	G	NETWORK COMM
B1600	1 Milan, MY10, 3.0L	No PATS Key Read by the PATS Control		CCM VEHICLE
B1681	1 Milan, MY10, 3.0L	PATS Transceiver Signal Is Not Being Received by the PATS Control		CCM VEHICLE
P0001	1 Milan, MY10, 3.0L	Fuel Volume Regulator Control Circuit/Open	G*	FUEL (COMPONENT)
P0018	1 Milan, MY10, 3.0L	Crankshaft Position - Camshaft Position Correlation (Bank 2 Sensor A)	G*	CCM CKP/CMP/IGNITION
P0030	1 Milan, MY10, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0046	1 Milan, MY10, 3.0L	Turbocharger/Supercharger Boost Control "A" Circuit Range/Performance		BOOST CONTROL (COMPONENT)
P0053	1 Milan, MY10, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0060	1 Milan, MY10, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0068	1 Milan, MY10, 3.0L	MAP / MAF - Throttle Position Correlation	G*	CCM MAF/MAP/BARO
P006A	1 Milan, MY10, 3.0L	MAP - Mass or Volume Air Flow Correlation (Bank 1)		CCM MAF/MAP/BARO
P006B	1 Milan, MY10, 3.0L	MAP - Exhaust Pressure Correlation		CCM MAF/MAP/BARO
P008D	1 Milan, MY10, 3.0L	Fuel Cooler Pump Control Circuit Low		FUEL (COMPONENT)
P0090	1 Milan, MY10, 3.0L	Fuel Pressure Regulator Control Circuit/Open		FUEL (COMPONENT)
P0103	1 Milan, MY10, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit High	G*+	CCM MAF/MAP/BARO
P0111	1 Milan, MY10, 3.0L	Intake Air Temperature Sensor 1 Circuit Range/Performance (Bank 1)	G*	CCM TEMP
P0121	1 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
P012F	1 Milan, MY10, 3.0L	Engine Coolant Temperature / Engine Oil Temperature Correlation		CCM TEMP
P013E	1 Milan, MY10, 3.0L	O2 Sensor Delayed Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0158	1 Milan, MY10, 3.0L	O2 Sensor Circuit High Voltage (Bank 2 Sensor 2)	G*	HO2S (COMPONENT)
P0183	1 Milan, MY10, 3.0L	Fuel Temperature Sensor "A" Circuit High	G*	FUEL (COMPONENT)
P0191	1 Milan, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit Range/Performance (Bank 1)	G*	FUEL (COMPONENT)
P0193	1 Milan, MY10, 3.0L	Fuel Rail Pressure Sensor Circuit High (Bank 1)	G*	FUEL (COMPONENT)
P0234	1 Milan, MY10, 3.0L	Turbocharger/Supercharger "A" Overboost Condition	G	BOOST CONTROL (SYSTEM)
P0237	1 Milan, MY10, 3.0L	Turbocharger/Supercharger Boost Sensor "A" Circuit Low	G*	BOOST CONTROL (COMPONENT)
P0263	1 Milan, MY10, 3.0L	Cylinder 1 Contribution/Balance		FUEL (COMPONENT)
P0275	1 Milan, MY10, 3.0L	Cylinder 5 Contribution/Balance		FUEL (COMPONENT)
P0281	1 Milan, MY10, 3.0L	Cylinder 7 Contribution/Balance		FUEL (COMPONENT)
P0307	1 Milan, MY10, 3.0L	Cylinder 7 Misfire Detected	G*	MISFIRE (SYSTEM)
P0315	1 Milan, MY10, 3.0L	Crankshaft Position System Variation Not Learned	G*	MISFIRE (SYSTEM)
P0320	1 Milan, MY10, 3.0L	Ignition/Distributor Engine Speed Input Circuit	G*	CCM CKP/CMP/IGNITION
P0325	1 Milan, MY10, 3.0L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0335	1 Milan, MY10, 3.0L	Crankshaft Position Sensor "A" Circuit	G*	CCM CKP/CMP/IGNITION
P0353	1 Milan, MY10, 3.0L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0358	1 Milan, MY10, 3.0L	Ignition Coil "H" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0381	1 Milan, MY10, 3.0L	Glow Plug/Heater Indicator Control Circuit/Open		CCM GLOW PLUG
P0405	1 Milan, MY10, 3.0L	EGR Sensor "A" Circuit Low	G*	EGR (COMPONENT)
P040D	1 Milan, MY10, 3.0L	EGR Temperature Sensor "A" Circuit High		EGR (COMPONENT)
P0410	1 Milan, MY10, 3.0L	AIR System	G*	SEC AIR (SYSTEM)
P0442	1 Milan, MY10, 3.0L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0470	1 Milan, MY10, 3.0L	Exhaust Pressure Sensor "A" Circuit		BOOST CONTROL (COMPONENT)
P0481	1 Milan, MY10, 3.0L	Fan 2 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0491	1 Milan, MY10, 3.0L	AIR System Insufficient Flow (Bank 1)	G*	SEC AIR (SYSTEM)
P0500	1 Milan, MY10, 3.0L	Vehicle Speed Sensor "A"	G*	CCM TRANS SENSOR
P0500	1 Milan, MY10, 3.0L	Vehicle Speed Sensor "A"	G	CCM VEHICLE
P050E	1 Milan, MY10, 3.0L	Cold Start Engine Exhaust Temperature Too Low	G*	CSER (SYSTEM)
P0529	1 Milan, MY10, 3.0L	Fan Speed Sensor Circuit Intermittent		CCM A/C, FAN, PS, GEN
P0563	1 Milan, MY10, 3.0L	System Voltage High	G	CCM A/C, FAN, PS, GEN

P0571	1 Milan, MY10, 3.0L	Brake Switch "A" Circuit	G	CCM VEHICLE
P0606	1 Milan, MY10, 3.0L	Control Module Processor	G*	CCM MODULE
P060B	1 Milan, MY10, 3.0L	Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
P060C	1 Milan, MY10, 3.0L	Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
P061B	1 Milan, MY10, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P0622	1 Milan, MY10, 3.0L	Generator Field/F Terminal Circuit	G	CCM A/C, FAN, PS, GEN
P064D	1 Milan, MY10, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 1)	G*	HO2S (COMPONENT)
P064E	1 Milan, MY10, 3.0L	Internal Control Module O2 Sensor Processor Performance (Bank 2)	G*	HO2S (COMPONENT)
P0672	1 Milan, MY10, 3.0L	Cylinder 2 Glow Plug Circuit/Open		CCM GLOW PLUG
P0673	1 Milan, MY10, 3.0L	Cylinder 3 Glow Plug Circuit/Open		CCM GLOW PLUG
P0674	1 Milan, MY10, 3.0L	Cylinder 4 Glow Plug Circuit/Open		CCM GLOW PLUG
P0676	1 Milan, MY10, 3.0L	Cylinder 6 Glow Plug Circuit/Open		CCM GLOW PLUG
P0677	1 Milan, MY10, 3.0L	Cylinder 7 Glow Plug Circuit/Open		CCM GLOW PLUG
P0683	1 Milan, MY10, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit		CCM GLOW PLUG
P0684	1 Milan, MY10, 3.0L	Glow Plug Control Module 1 to PCM Communication Circuit Range/Performance		CCM GLOW PLUG
P0705	1 Milan, MY10, 3.0L	Transmission Range Sensor "A" Circuit (PRNDL Input)	G*	CCM TRANS SENSOR
P0709	1 Milan, MY10, 3.0L	Transmission Range Sensor "A" Circuit Intermittent	G*	CCM TRANS SENSOR
P0745	1 Milan, MY10, 3.0L	Pressure Control Solenoid "A"	G*	CCM TRANS ACTUATOR
P0757	1 Milan, MY10, 3.0L	Shift Solenoid "B" Stuck On	G*	CCM TRANS RATIO
P0772	1 Milan, MY10, 3.0L	Shift Solenoid "E" Stuck On	G*	CCM TRANS RATIO
P0775	1 Milan, MY10, 3.0L	Pressure Control Solenoid B	G*	CCM TRANS ACTUATOR
P07A5	1 Milan, MY10, 3.0L	Transmission Friction Element "B" Stuck On	G+	CCM TRANS RATIO
P0963	1 Milan, MY10, 3.0L	Pressure Control Solenoid "A" Control Circuit High	G*	CCM TRANS ACTUATOR
P0984	1 Milan, MY10, 3.0L	Shift Solenoid "E" Control Circuit Range/Performance	G+	CCM TRANS RATIO
P0A03	1 Milan, MY10, 3.0L	Motor Electronics Coolant Temperature Sensor Circuit High	G	HYBRID
P1100	1 Milan, MY10, 3.0L	Mass Air Flow Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P1121	1 Milan, MY10, 3.0L	Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor	G*	ETC (COMPONENT)
P1132	1 Milan, MY10, 3.0L	Lack Of HO2S11 Switches - Sensor Indicates Rich	G*	HO2S (SYSTEM)
P1148	1 Milan, MY10, 3.0L	Generator 2 Control Circuit		CCM A/C, FAN, PS, GEN
P115A	1 Milan, MY10, 3.0L	Low Fuel Level - Forced Limited Power		FUEL (SYSTEM)
P1209	1 Milan, MY10, 3.0L	Injector Control Pressure Peak Delta Test Fault		FUEL (COMPONENT)
P1210	1 Milan, MY10, 3.0L	Injector Control Pressure Higher Than Desired (engine off)		FUEL (COMPONENT)
P1212	1 Milan, MY10, 3.0L	Injector Control Pressure Lower Than Desired (engine crank or run)		FUEL (COMPONENT)
P1233	1 Milan, MY10, 3.0L	Fuel Pump Driver Module Disabled or Off Line (Fuel Pump Driver Module)	G*	FUEL (COMPONENT)
P123C	1 Milan, MY10, 3.0L	Cold Start Turbocharger Protection - Forced Limited Power		BOOST CONTROL (SYSTEM)
P1246	1 Milan, MY10, 3.0L	Alternator Load Input	G	CCM A/C, FAN, PS, GEN
P1268	1 Milan, MY10, 3.0L	Cylinder 8 High To Low Side Short	G*	FUEL (COMPONENT)
P1270	1 Milan, MY10, 3.0L	Engine RPM or Vehicle Speed Limiter Reached	G	NO-FAULT CODES
P1272	1 Milan, MY10, 3.0L	Cylinder 2 High To Low Side Open	G*	FUEL (COMPONENT)
P1276	1 Milan, MY10, 3.0L	Cylinder 6 High To Low Side Open	G*	FUEL (COMPONENT)
P1278	1 Milan, MY10, 3.0L	Cylinder 8 High To Low Side Open	G*	FUEL (COMPONENT)
P1283	1 Milan, MY10, 3.0L	Injector Pressure Regulator Control Circuit		FUEL (COMPONENT)
P1290	1 Milan, MY10, 3.0L	Cylinder Head Temperature Sensor Circuit Low	G*	CCM TEMP
P1309	1 Milan, MY10, 3.0L	Misfire Monitor Hardware - CMP Misaligned, CKP/CMP Noise, PCM AICE Chip	G*	CCM CKP/CMP/IGNITION
P1336	1 Milan, MY10, 3.0L	Crankshaft/Camshaft Sensor Range/Performance	G*	CCM CKP/CMP/IGNITION
P1401	1 Milan, MY10, 3.0L	Differential Pressure Feedback EGR Circuit High	G*	EGR (COMPONENT)
P1409	1 Milan, MY10, 3.0L	EGR Vacuum Regulator Solenoid Circuit	G*	EGR (COMPONENT)
P1451	1 Milan, MY10, 3.0L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P1500	1 Milan, MY10, 3.0L	Vehicle Speed Sensor	G	CCM TRANS SENSOR
P1501	1 Milan, MY10, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR

P1506	1 Milan, MY10, 3.0L	Idle Air Control Overspeed Error	G*	CCM IDLE AIR CTRL
P1507	1 Milan, MY10, 3.0L	Idle Air Control Underspeed Error	G*	CCM IDLE AIR CTRL
P1518	1 Milan, MY10, 3.0L	Intake Manifold Runner Control Stuck Open (Bank 1)	G*	CCM IMRC/IMCC
P1572	1 Milan, MY10, 3.0L	Brake Pedal Switch Circuit	G	CCM VEHICLE
P1575	1 Milan, MY10, 3.0L	Pedal Position Out Of Self Test Range		CCM THROTTLE/PEDAL
P160A	1 Milan, MY10, 3.0L	Control Module Vehicle Options Reconfiguration Error	G	CCM MODULE
P1636	1 Milan, MY10, 3.0L	Inductive Signature Chip Communication Error	G*	CCM MODULE
P1650	1 Milan, MY10, 3.0L	Power Steering Pressure Switch Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1670	1 Milan, MY10, 3.0L	Electronic Feedback Signal Not Detected		FUEL (COMPONENT)
P1747	1 Milan, MY10, 3.0L	Pressure Control Solenoid "A" Short Circuit	G*^	CCM TRANS ACTUATOR
P1760	1 Milan, MY10, 3.0L	Pressure Control Solenoid "A" Short Circuit Intermittent	G^	CCM TRANS ACTUATOR
P193C	1 Milan, MY10, 3.0L	Steering Wheel Angle Signal	G	NETWORK COMM
P2007	1 Milan, MY10, 3.0L	Intake Manifold Runner Control Stuck Closed (Bank 2)	G	CCM IMRC/IMCC
P2020	1 Milan, MY10, 3.0L	Intake Manifold Runner Position Sensor/Switch Circuit Range/Performance (Ban	G*	CCM IMRC/IMCC
P202D	1 Milan, MY10, 3.0L	Reductant Leakage		NOX CATALYST (SYSTEM)
P2033	1 Milan, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit High (Bank 1 Sensor 2)		EXH GAS SENSOR (SYSTEM)
P2072	1 Milan, MY10, 3.0L	Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
P2080	1 Milan, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit Range/Performance (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2081	1 Milan, MY10, 3.0L	Exhaust Gas Temperature Sensor Circuit Intermittent (Bank 1 Sensor 1)		EXH GAS SENSOR (COMPONENT)
P2098	1 Milan, MY10, 3.0L	Post Catalyst Fuel Trim System Too Lean (Bank 2)	G*	HO2S (SYSTEM)
P20E2	1 Milan, MY10, 3.0L	Exhaust Gas Temperature Sensor 1 / 2 Correlation (Bank 1)		NOX CATALYST (COMPONENT)
P2104	1 Milan, MY10, 3.0L	Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
P2110	1 Milan, MY10, 3.0L	Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
P2123	1 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit High	G*+	CCM THROTTLE/PEDAL
P2139	1 Milan, MY10, 3.0L	Throttle/Pedal Position Sensor/Switch "D"/"F" Voltage Correlation	G+	CCM THROTTLE/PEDAL
P215A	1 Milan, MY10, 3.0L	Vehicle Speed / Wheel Speed Correlation		CCM TRANS SENSOR
P2269	1 Milan, MY10, 3.0L	Water in Fuel Condition		NO-FAULT CODES
P2617	1 Milan, MY10, 3.0L	Crankshaft Position Output Circuit/Open		CCM MODULE
P2623	1 Milan, MY10, 3.0L	Injector Control Pressure Regulator / Open		FUEL (COMPONENT)
P2628	1 Milan, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit High (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P2631	1 Milan, MY10, 3.0L	O2 Sensor Positive Current Trim Circuit High (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P2700	1 Milan, MY10, 3.0L	Transmission Friction Element "A" Apply Time Range/Performance	G+	CCM TRANS RATIO
U0073	1 Milan, MY10, 3.0L	Control Module Communication Bus "A" Off	G	NETWORK COMM
U0105	1 Milan, MY10, 3.0L	Lost Communication With Fuel Injector Control Module		NETWORK COMM
U0129	1 Milan, MY10, 3.0L	Lost Communication With Brake System Control Module	G	NETWORK COMM
P0016	34 Milan, MY11, 2.5L	Crankshaft Position - Camshaft Position Correlation (Bank 1 Sensor A)	G*	CCM CKP/CMP/IGNITION
P052A	34 Milan, MY11, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0455	15 Milan, MY11, 2.5L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P0456	12 Milan, MY11, 2.5L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1602	12 Milan, MY11, 2.5L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P2111	10 Milan, MY11, 2.5L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P1260	9 Milan, MY11, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	9 Milan, MY11, 2.5L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1464	8 Milan, MY11, 2.5L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1A14	8 Milan, MY11, 2.5L	Hybrid Powertrain Control Module - Transmission Disabled	G	HYBRID
P0316	6 Milan, MY11, 2.5L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P0457	6 Milan, MY11, 2.5L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P0A7C	6 Milan, MY11, 2.5L	Motor Electronics Over Temperature	G	HYBRID
P1288	6 Milan, MY11, 2.5L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0113	5 Milan, MY11, 2.5L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP

P144A	5 Milan, MY11, 2.5L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1703	5 Milan, MY11, 2.5L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P2196	5 Milan, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P0010	4 Milan, MY11, 2.5L	Intake (A) Camshaft Position Actuator Control Circuit/Open (Bank 1)	G*	VVT (COMPONENT)
P0011	4 Milan, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Advanced (Bank 1)	G*	VVT (SYSTEM)
P0102	4 Milan, MY11, 2.5L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0303	4 Milan, MY11, 2.5L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0442	4 Milan, MY11, 2.5L	EVAP System Leak Detected (small leak)	G*	EVAP (SYSTEM)
P0480	4 Milan, MY11, 2.5L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P052B	4 Milan, MY11, 2.5L	Cold Start Intake (A) Camshaft Position Timing Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P1285	4 Milan, MY11, 2.5L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1299	4 Milan, MY11, 2.5L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P0300	3 Milan, MY11, 2.5L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0304	3 Milan, MY11, 2.5L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0352	3 Milan, MY11, 2.5L	Ignition Coil "B" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0685	3 Milan, MY11, 2.5L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P06B8	3 Milan, MY11, 2.5L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P1450	3 Milan, MY11, 2.5L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P1780	3 Milan, MY11, 2.5L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR
P1A10	3 Milan, MY11, 2.5L	Hybrid Powertrain Control Module - Battery Disabled	G	HYBRID
P2450	3 Milan, MY11, 2.5L	EVAP System Switching Valve Performance/Stuck Open	G*	EVAP (COMPONENT)
P0122	2 Milan, MY11, 2.5L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0171	2 Milan, MY11, 2.5L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0223	2 Milan, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P0301	2 Milan, MY11, 2.5L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0302	2 Milan, MY11, 2.5L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0351	2 Milan, MY11, 2.5L	Ignition Coil "A" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0353	2 Milan, MY11, 2.5L	Ignition Coil "C" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0354	2 Milan, MY11, 2.5L	Ignition Coil "D" Primary Control Circuit/Open	G*	CCM CKP/CMP/IGNITION
P0420	2 Milan, MY11, 2.5L	Catalyst System Efficiency Below Threshold (Bank 1)	G*	CATALYST (SYSTEM)
P0443	2 Milan, MY11, 2.5L	EVAP System Purge Control Valve "A" Circuit	G*	EVAP (COMPONENT)
P0446	2 Milan, MY11, 2.5L	EVAP System Vent Control Circuit	G*	EVAP (COMPONENT)
P0451	2 Milan, MY11, 2.5L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0562	2 Milan, MY11, 2.5L	System Voltage Low	G	CCM A/C, FAN, PS, GEN
P0706	2 Milan, MY11, 2.5L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P0707	2 Milan, MY11, 2.5L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0708	2 Milan, MY11, 2.5L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P1289	2 Milan, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit High	G*	CCM TEMP
P1633	2 Milan, MY11, 2.5L	Keep Alive Power Voltage Too Low	G*	CCM MODULE
P1711	2 Milan, MY11, 2.5L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1921	2 Milan, MY11, 2.5L	Transmission Range Signal	G	NETWORK COMM
P1A0C	2 Milan, MY11, 2.5L	Hybrid Powertrain Control Module - Engine Disabled	G	HYBRID
P1A1B	2 Milan, MY11, 2.5L	Brake System Control Module - Forced Engine Running	G*	HYBRID
P2101	2 Milan, MY11, 2.5L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P2112	2 Milan, MY11, 2.5L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P260F	2 Milan, MY11, 2.5L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P0000	1 Milan, MY11, 2.5L	SAE Reserved - Usage not allowed except as padding in DTC response message		#N/A
P0012	1 Milan, MY11, 2.5L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0106	1 Milan, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0107	1 Milan, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Low	G*	CCM MAF/MAP/BARO

P0109	1 Milan, MY11, 2.5L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0131	1 Milan, MY11, 2.5L	O2 Sensor Circuit Low Voltage (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0135	1 Milan, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0141	1 Milan, MY11, 2.5L	O2 Sensor Heater Circuit (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0203	1 Milan, MY11, 2.5L	Cylinder 3 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0219	1 Milan, MY11, 2.5L	Engine Overspeed Condition	G	CCM VEHICLE
P025A	1 Milan, MY11, 2.5L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0305	1 Milan, MY11, 2.5L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	1 Milan, MY11, 2.5L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0325	1 Milan, MY11, 2.5L	Knock/Combustion Vibration Sensor 1 Circuit (Bank 1)	G*	CCM CKP/CMP/IGNITION
P0340	1 Milan, MY11, 2.5L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0344	1 Milan, MY11, 2.5L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0453	1 Milan, MY11, 2.5L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0600	1 Milan, MY11, 2.5L	Serial Communication Link	G*+	ETC (SYSTEM)
P0605	1 Milan, MY11, 2.5L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0607	1 Milan, MY11, 2.5L	Control Module Performance	G*	CCM MODULE
P060A	1 Milan, MY11, 2.5L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P0657	1 Milan, MY11, 2.5L	Actuator Supply Voltage "A" Circuit/Open	G*	CCM MODULE
P0741	1 Milan, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Performance/Stuck Off	G*+	CCM TRANS TCC
P0742	1 Milan, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Stuck On	G*+	CCM TRANS ACTUATOR
P0743	1 Milan, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P0748	1 Milan, MY11, 2.5L	Pressure Control Solenoid "A" Electrical	G+	CCM TRANS ACTUATOR
P0758	1 Milan, MY11, 2.5L	Shift Solenoid "B" Electrical	G+	CCM TRANS ACTUATOR
P0763	1 Milan, MY11, 2.5L	Shift Solenoid "C" Electrical	G+	CCM TRANS ACTUATOR
P0768	1 Milan, MY11, 2.5L	Shift Solenoid "D" Electrical	G+	CCM TRANS ACTUATOR
P0770	1 Milan, MY11, 2.5L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR
P0773	1 Milan, MY11, 2.5L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P0962	1 Milan, MY11, 2.5L	Pressure Control Solenoid "A" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0976	1 Milan, MY11, 2.5L	Shift Solenoid "B" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0979	1 Milan, MY11, 2.5L	Shift Solenoid "C" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0982	1 Milan, MY11, 2.5L	Shift Solenoid "D" Control Circuit Low	G*	CCM TRANS ACTUATOR
P0C2F	1 Milan, MY11, 2.5L	Internal Control Module Drive Motor/Generator-Engine Speed Sensor Performance		HYBRID
P128A	1 Milan, MY11, 2.5L	Cylinder Head Temperature Sensor Circuit Intermittent/Erratic	G*	CCM TEMP
P1397	1 Milan, MY11, 2.5L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1622	1 Milan, MY11, 2.5L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P1744	1 Milan, MY11, 2.5L	Torque Converter Clutch Solenoid Circuit Performance	G*+	CCM TRANS TCC
P2135	1 Milan, MY11, 2.5L	Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
P2195	1 Milan, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2197	1 Milan, MY11, 2.5L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P2535	1 Milan, MY11, 2.5L	Ignition Switch Run/Start Position Circuit High	G	CCM VEHICLE
U0101	1 Milan, MY11, 2.5L	Lost Communication with TCM	G*	NETWORK COMM
U0111	1 Milan, MY11, 2.5L	Lost Communication With Battery Energy Control Module "A"	G	NETWORK COMM
U0129	1 Milan, MY11, 2.5L	Lost Communication With Brake System Control Module	G	NETWORK COMM
U0155	1 Milan, MY11, 2.5L	Lost Communication With Instrument Panel Cluster (IPC) Control Module	G*	NETWORK COMM
U0300	1 Milan, MY11, 2.5L	Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
U0418	1 Milan, MY11, 2.5L	Invalid Data Received from Brake System Control Module	G	NETWORK COMM
U210B	1 Milan, MY11, 2.5L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM
P2111	191 Milan, MY11, 3.0L	Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
P2112	153 Milan, MY11, 3.0L	Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
P1780	132 Milan, MY11, 3.0L	Transmission Control Switch (O/D Cancel) Circuit Out Of Self Test Range		CCM TRANS SENSOR

P0456	88 Milan, MY11, 3.0L	EVAP System Leak Detected (very small leak)	G*	EVAP (SYSTEM)
P1260	59 Milan, MY11, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P1260	59 Milan, MY11, 3.0L	Theft Detected, Vehicle Immobilized	G	CCM VEHICLE
P0685	43 Milan, MY11, 3.0L	ECM/PCM Power Relay Control Circuit/Open	G	CCM MODULE
P0122	39 Milan, MY11, 3.0L	Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
P0223	39 Milan, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
P1464	33 Milan, MY11, 3.0L	A/C Demand Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P1602	28 Milan, MY11, 3.0L	Immobilizer/ECM Communication Error	G	NETWORK COMM
P0316	25 Milan, MY11, 3.0L	Misfire Detected On Startup (First 1000 Revolutions)	G	MISFIRE (SYSTEM)
P1288	21 Milan, MY11, 3.0L	Cylinder Head Temperature Sensor Out Of Self Test Range		CCM TEMP
P0455	17 Milan, MY11, 3.0L	EVAP System Leak Detected (large leak)	G*	EVAP (SYSTEM)
P2101	16 Milan, MY11, 3.0L	Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
P2196	16 Milan, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2198	15 Milan, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Rich (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P0104	13 Milan, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Intermittent	G	CCM MAF/MAP/BARO
P0297	13 Milan, MY11, 3.0L	Vehicle Overspeed Condition	G	CCM VEHICLE
P1124	13 Milan, MY11, 3.0L	Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
P0102	11 Milan, MY11, 3.0L	Mass or Volume Air Flow Sensor "A" Circuit Low	G*+	CCM MAF/MAP/BARO
P0113	11 Milan, MY11, 3.0L	Intake Air Temperature Sensor 1 Circuit High (Bank 1)	G*	CCM TEMP
P0457	10 Milan, MY11, 3.0L	EVAP System Leak Detected (fuel cap loose/off)	G*	EVAP (SYSTEM)
P0505	10 Milan, MY11, 3.0L	Idle Control System		CCM IDLE AIR CTRL
P1703	10 Milan, MY11, 3.0L	Brake Switch Out Of Self Test Range		CCM VEHICLE
P2195	10 Milan, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 1 Sensor 1)	G*	HO2S (SYSTEM)
P2197	9 Milan, MY11, 3.0L	O2 Sensor Signal Biased/Stuck Lean (Bank 2 Sensor 1)	G*	HO2S (SYSTEM)
P1285	7 Milan, MY11, 3.0L	Cylinder Head Over Temperature Condition	G	ENGINE COOLING (SYSTEM)
P1127	6 Milan, MY11, 3.0L	Exhaust Temperature Out of Range, O2 Sensor Tests Not Completed		HO2S (SYSTEM)
P1622	6 Milan, MY11, 3.0L	Immobilizer ID Does Not Match	G	CCM VEHICLE
P0645	5 Milan, MY11, 3.0L	A/C Clutch Relay Control Circuit	G	CCM A/C, FAN, PS, GEN
P0706	5 Milan, MY11, 3.0L	Transmission Range Sensor "A" Circuit Range/Performance	G*	CCM TRANS SENSOR
P1299	5 Milan, MY11, 3.0L	Cylinder Head Over Temperature Protection Active	G*	CCM TEMP
P1921	5 Milan, MY11, 3.0L	Transmission Range Signal	G	NETWORK COMM
P0171	4 Milan, MY11, 3.0L	System Too Lean (Bank 1)	G*	FUEL (SYSTEM)
P0300	4 Milan, MY11, 3.0L	Random Misfire Detected	G*	MISFIRE (SYSTEM)
P0302	4 Milan, MY11, 3.0L	Cylinder 2 Misfire Detected	G*	MISFIRE (SYSTEM)
P0340	4 Milan, MY11, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0345	4 Milan, MY11, 3.0L	Camshaft Position Sensor "A" Circuit (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0605	4 Milan, MY11, 3.0L	Internal Control Module Read Only Memory (ROM) Error	G*	CCM MODULE
P0707	4 Milan, MY11, 3.0L	Transmission Range Sensor "A" Circuit Low	G*	CCM TRANS SENSOR
P0731	4 Milan, MY11, 3.0L	Gear 1 Incorrect Ratio	G*+	CCM TRANS RATIO
P0174	3 Milan, MY11, 3.0L	System Too Lean (Bank 2)	G*	FUEL (SYSTEM)
P0301	3 Milan, MY11, 3.0L	Cylinder 1 Misfire Detected	G*	MISFIRE (SYSTEM)
P0344	3 Milan, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 1 or single sensor)	G*	CCM CKP/CMP/IGNITION
P0349	3 Milan, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Intermittent (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0620	3 Milan, MY11, 3.0L	Generator Control Circuit	G	CCM A/C, FAN, PS, GEN
P0625	3 Milan, MY11, 3.0L	Generator Field/F Terminal Circuit Low	G	CCM A/C, FAN, PS, GEN
P0732	3 Milan, MY11, 3.0L	Gear 2 Incorrect Ratio	G*+	CCM TRANS RATIO
P0733	3 Milan, MY11, 3.0L	Gear 3 Incorrect Ratio	G*+	CCM TRANS RATIO
P0734	3 Milan, MY11, 3.0L	Gear 4 Incorrect Ratio	G*+	CCM TRANS RATIO
P260F	3 Milan, MY11, 3.0L	EVAP System Monitoring Processor Performance	G*	CCM MODULE
P2705	3 Milan, MY11, 3.0L	Transmission Friction Element "F" Apply Time Range/Performance	G+	CCM TRANS RATIO

P0012	2 Milan, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 1)	G*	VVT (SYSTEM)
P0108	2 Milan, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit High	G*	CCM MAF/MAP/BARO
P0219	2 Milan, MY11, 3.0L	Engine Overspeed Condition	G	CCM VEHICLE
P0303	2 Milan, MY11, 3.0L	Cylinder 3 Misfire Detected	G*	MISFIRE (SYSTEM)
P0306	2 Milan, MY11, 3.0L	Cylinder 6 Misfire Detected	G*	MISFIRE (SYSTEM)
P0430	2 Milan, MY11, 3.0L	Catalyst System Efficiency Below Threshold (Bank 2)	G*	CATALYST (SYSTEM)
P0480	2 Milan, MY11, 3.0L	Fan 1 Control Circuit	G	CCM A/C, FAN, PS, GEN
P0627	2 Milan, MY11, 3.0L	Fuel Pump "A" Control Circuit/Open	G	FUEL (COMPONENT)
P0743	2 Milan, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit Electrical	G*+	CCM TRANS ACTUATOR
P1101	2 Milan, MY11, 3.0L	Mass Air Flow Sensor Out Of Self Test Range		CCM MAF/MAP/BARO
P1450	2 Milan, MY11, 3.0L	Unable to Bleed Up Fuel Tank Vacuum	G*	EVAP (SYSTEM)
P1489	2 Milan, MY11, 3.0L	PCV Heater Control Circuit	G	PCV
P1639	2 Milan, MY11, 3.0L	Vehicle ID Block Corrupted, Not Programmed	G*	CCM VEHICLE
P0022	1 Milan, MY11, 3.0L	Intake (A) Camshaft Position Timing - Over-Retarded (Bank 2)	G*	VVT (SYSTEM)
P0030	1 Milan, MY11, 3.0L	HO2S Heater Control Circuit (Bank 1 Sensor 1)	G*	HO2S (COMPONENT)
P0050	1 Milan, MY11, 3.0L	HO2S Heater Control Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0054	1 Milan, MY11, 3.0L	HO2S Heater Resistance (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P0059	1 Milan, MY11, 3.0L	HO2S Heater Resistance (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0106	1 Milan, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Range/Perform	G*	CCM MAF/MAP/BARO
P0109	1 Milan, MY11, 3.0L	Manifold Absolute Pressure/Barometric Pressure Sensor Circuit Intermittent	G	CCM MAF/MAP/BARO
P0123	1 Milan, MY11, 3.0L	Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
P0138	1 Milan, MY11, 3.0L	O2 Sensor Circuit High Voltage (Bank 1 Sensor 2)	G*	HO2S (COMPONENT)
P013A	1 Milan, MY11, 3.0L	O2 Sensor Slow Response - Rich to Lean (Bank 1 Sensor 2)	G*	HO2S (SYSTEM)
P0155	1 Milan, MY11, 3.0L	O2 Sensor Heater Circuit (Bank 2 Sensor 1)	G*	HO2S (COMPONENT)
P0172	1 Milan, MY11, 3.0L	System Too Rich (Bank 1)	G*	FUEL (SYSTEM)
P0175	1 Milan, MY11, 3.0L	System Too Rich (Bank 2)	G*	FUEL (SYSTEM)
P0205	1 Milan, MY11, 3.0L	Cylinder 5 Injector "A" Circuit/Open	G*	FUEL (COMPONENT)
P0222	1 Milan, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
P025A	1 Milan, MY11, 3.0L	Fuel Pump Module "A" Control Circuit/Open	G*	FUEL (COMPONENT)
P0304	1 Milan, MY11, 3.0L	Cylinder 4 Misfire Detected	G*	MISFIRE (SYSTEM)
P0305	1 Milan, MY11, 3.0L	Cylinder 5 Misfire Detected	G*	MISFIRE (SYSTEM)
P0346	1 Milan, MY11, 3.0L	Camshaft Position Sensor "A" Circuit Range/Performance (Bank 2)	G*	CCM CKP/CMP/IGNITION
P0451	1 Milan, MY11, 3.0L	EVAP System Pressure Sensor/Switch Range/Performance	G*	EVAP (COMPONENT)
P0453	1 Milan, MY11, 3.0L	EVAP System Pressure Sensor/Switch High	G*	EVAP (COMPONENT)
P0533	1 Milan, MY11, 3.0L	A/C Refrigerant Pressure Sensor "A" Circuit High	G	CCM A/C, FAN, PS, GEN
P0579	1 Milan, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit Range/Performance	G	CCM VEHICLE
P0581	1 Milan, MY11, 3.0L	Cruise Control Multi-Function Input "A" Circuit High	G	CCM VEHICLE
P0600	1 Milan, MY11, 3.0L	Serial Communication Link	G*+	ETC (SYSTEM)
P060A	1 Milan, MY11, 3.0L	Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
P061B	1 Milan, MY11, 3.0L	Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
P068A	1 Milan, MY11, 3.0L	ECM/PCM Power Relay De-Energized - Too Early	G*	CCM MODULE
P0690	1 Milan, MY11, 3.0L	ECM/PCM Power Relay Sense Circuit High	G	CCM MODULE
P06B8	1 Milan, MY11, 3.0L	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error	G*	CCM MODULE
P0708	1 Milan, MY11, 3.0L	Transmission Range Sensor "A" Circuit High	G*	CCM TRANS SENSOR
P0715	1 Milan, MY11, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit	G*+	CCM TRANS SENSOR
P0717	1 Milan, MY11, 3.0L	Input/Turbine Shaft Speed Sensor "A" Circuit No Signal	G+	CCM TRANS SENSOR
P0735	1 Milan, MY11, 3.0L	Gear 5 Incorrect Ratio	G*+	CCM TRANS RATIO
P0740	1 Milan, MY11, 3.0L	Torque Converter Clutch Solenoid Circuit/Open	G*+	CCM TRANS ACTUATOR
P0756	1 Milan, MY11, 3.0L	Shift Solenoid "B" Performance/Stuck Off	G*	CCM TRANS RATIO
P0770	1 Milan, MY11, 3.0L	Shift Solenoid "E"	G*	CCM TRANS ACTUATOR

P0773	1 Milan, MY11, 3.0L	Shift Solenoid "E" Electrical	G+	CCM TRANS ACTUATOR
P1397	1 Milan, MY11, 3.0L	System Voltage Out Of Self Test Range		CCM A/C, FAN, PS, GEN
P144A	1 Milan, MY11, 3.0L	EVAP System Purge Vapor Line Restricted/Blocked	G*	MONITOR - EVAP (SYSTEM)
P1501	1 Milan, MY11, 3.0L	Vehicle Speed Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1702	1 Milan, MY11, 3.0L	Transmission Range Sensor Circuit Intermittent	G+	CCM TRANS SENSOR
P1705	1 Milan, MY11, 3.0L	Transmission Range Circuit Not Indicating Park/Neutral During Self Test		CCM TRANS SENSOR
P1711	1 Milan, MY11, 3.0L	Transmission Fluid Temperature Sensor Out Of Self Test Range		CCM TRANS SENSOR
P1783	1 Milan, MY11, 3.0L	Transmission Overtemperature Condition	G+	CCM TRANS SYSTEM
P1910	1 Milan, MY11, 3.0L	Reverse Lamp Control Circuit/Open	G+	CCM TRANS ACTUATOR
P2122	1 Milan, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "D" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2127	1 Milan, MY11, 3.0L	Throttle/Pedal Position Sensor/Switch "E" Circuit Low	G*+	CCM THROTTLE/PEDAL
P2701	1 Milan, MY11, 3.0L	Transmission Friction Element "B" Apply Time Range/Performance	G+	CCM TRANS RATIO
U210B	1 Milan, MY11, 3.0L	Lost Communication Between Fuel Pump Control Module "A" and Restraints Co	G	NETWORK COMM

DTC	DTCCount	Vehicle
P2111	2531	Escape /Tribute / Mariner, MY10, 3.0L
P2112	2090	Escape /Tribute / Mariner, MY10, 3.0L
P0122	675	Escape /Tribute / Mariner, MY10, 3.0L
P0223	665	Escape /Tribute / Mariner, MY10, 3.0L
P2101	373	Escape /Tribute / Mariner, MY10, 3.0L
P1124	196	Escape /Tribute / Mariner, MY10, 3.0L
P2135	101	Escape /Tribute / Mariner, MY10, 3.0L
P0600	51	Escape /Tribute / Mariner, MY10, 3.0L
P060A	48	Escape /Tribute / Mariner, MY10, 3.0L
U0300	29	Escape /Tribute / Mariner, MY10, 3.0L
P2107	24	Escape /Tribute / Mariner, MY10, 3.0L
P0222	23	Escape /Tribute / Mariner, MY10, 3.0L
P061B	16	Escape /Tribute / Mariner, MY10, 3.0L
P0123	13	Escape /Tribute / Mariner, MY10, 3.0L
P2104	12	Escape /Tribute / Mariner, MY10, 3.0L
P2110	9	Escape /Tribute / Mariner, MY10, 3.0L
P060D	8	Escape /Tribute / Mariner, MY10, 3.0L
P2106	7	Escape /Tribute / Mariner, MY10, 3.0L
P0221	5	Escape /Tribute / Mariner, MY10, 3.0L
P2100	5	Escape /Tribute / Mariner, MY10, 3.0L
P2105	5	Escape /Tribute / Mariner, MY10, 3.0L
P0121	4	Escape /Tribute / Mariner, MY10, 3.0L
P115E	4	Escape /Tribute / Mariner, MY10, 3.0L
P060C	3	Escape /Tribute / Mariner, MY10, 3.0L
P060B	2	Escape /Tribute / Mariner, MY10, 3.0L
P0226	1	Escape /Tribute / Mariner, MY10, 3.0L
P2072	1	Escape /Tribute / Mariner, MY10, 3.0L
P2111	554	Escape /Tribute / Mariner, MY11, 3.0L
P2112	331	Escape /Tribute / Mariner, MY11, 3.0L
P0122	170	Escape /Tribute / Mariner, MY11, 3.0L
P0223	168	Escape /Tribute / Mariner, MY11, 3.0L
P2101	66	Escape /Tribute / Mariner, MY11, 3.0L
P1124	44	Escape /Tribute / Mariner, MY11, 3.0L
P0600	13	Escape /Tribute / Mariner, MY11, 3.0L
P060A	13	Escape /Tribute / Mariner, MY11, 3.0L
U0300	11	Escape /Tribute / Mariner, MY11, 3.0L
P061B	10	Escape /Tribute / Mariner, MY11, 3.0L
P2107	9	Escape /Tribute / Mariner, MY11, 3.0L
P2104	8	Escape /Tribute / Mariner, MY11, 3.0L
P2110	8	Escape /Tribute / Mariner, MY11, 3.0L
P0222	6	Escape /Tribute / Mariner, MY11, 3.0L
P2106	6	Escape /Tribute / Mariner, MY11, 3.0L
P0221	5	Escape /Tribute / Mariner, MY11, 3.0L
P060D	5	Escape /Tribute / Mariner, MY11, 3.0L
P2100	5	Escape /Tribute / Mariner, MY11, 3.0L

P2105	5	Escape /Tribute / Mariner, MY11, 3.0L
P2135	4	Escape /Tribute / Mariner, MY11, 3.0L
P0123	2	Escape /Tribute / Mariner, MY11, 3.0L
P115E	2	Escape /Tribute / Mariner, MY11, 3.0L
P061C	1	Escape /Tribute / Mariner, MY11, 3.0L
P1674	1	Escape /Tribute / Mariner, MY11, 3.0L
P2072	1	Escape /Tribute / Mariner, MY11, 3.0L
P0122	42	Escape /Tribute / Mariner, MY12, 3.0L
P0223	40	Escape /Tribute / Mariner, MY12, 3.0L
P2111	16	Escape /Tribute / Mariner, MY12, 3.0L
P1124	8	Escape /Tribute / Mariner, MY12, 3.0L
U0300	8	Escape /Tribute / Mariner, MY12, 3.0L
P0600	7	Escape /Tribute / Mariner, MY12, 3.0L
P060A	7	Escape /Tribute / Mariner, MY12, 3.0L
P2112	7	Escape /Tribute / Mariner, MY12, 3.0L
P2107	4	Escape /Tribute / Mariner, MY12, 3.0L
P0222	3	Escape /Tribute / Mariner, MY12, 3.0L
P061B	3	Escape /Tribute / Mariner, MY12, 3.0L
P2105	2	Escape /Tribute / Mariner, MY12, 3.0L
P0121	1	Escape /Tribute / Mariner, MY12, 3.0L
P061C	1	Escape /Tribute / Mariner, MY12, 3.0L
P2100	1	Escape /Tribute / Mariner, MY12, 3.0L
P2104	1	Escape /Tribute / Mariner, MY12, 3.0L
P2106	1	Escape /Tribute / Mariner, MY12, 3.0L
P2110	1	Escape /Tribute / Mariner, MY12, 3.0L
P2135	1	Escape /Tribute / Mariner, MY12, 3.0L

DTC Description	DTC Type * = MIL illuminat	DTC Monitor Group Description
Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
Serial Communication Link	G*+	ETC (SYSTEM)
Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
Internal Control Module Main Processor Performance	G*+	ETC (SYSTEM)
Internal Control Module A/D Processing Performance	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "C" Circuit Range/Performance		ETC (COMPONENT)
Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+	ETC (COMPONENT)
Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
Serial Communication Link	G*+	ETC (SYSTEM)
Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G	ETC (COMPONENT)
Internal Control Module Accelerator Pedal Position Performance	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)

Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)
Throttle/Pedal Position Sensor "A" Circuit High	G*+	ETC (COMPONENT)
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G	ETC (SYSTEM)
Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
Control Module Software Corrupted	G*+	ETC (SYSTEM)
Throttle Actuator Control System - Ice Blockage Bank 1	G+	ETC (COMPONENT)
Throttle/Pedal Position Sensor "A" Circuit Low	G*+	ETC (COMPONENT)
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+	ETC (COMPONENT)
Throttle Actuator "A" Control System - Stuck Open	G*+	ETC (COMPONENT)
Throttle Position Sensor "A" Out Of Self Test Range		ETC (COMPONENT)
Internal Control Module Software Incompatibility	G*+	ETC (SYSTEM)
Serial Communication Link	G*+	ETC (SYSTEM)
Internal Control Module Monitoring Processor Performance	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control System - Stuck Closed	G*+	ETC (COMPONENT)
Throttle Actuator "A" Control Module Processor	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+	ETC (COMPONENT)
Internal Control Module Torque Calculation Performance	G*+	ETC (SYSTEM)
Throttle Actuator Control System - Forced Engine Shutdown	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+	ETC (COMPONENT)
Internal Control Module Engine RPM Performance	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control Motor Circuit/Open	G*+	ETC (COMPONENT)
Throttle Actuator Control System - Forced Idle	G*+	ETC (SYSTEM)
Throttle Actuator Control System - Forced Limited Power	G*+	ETC (SYSTEM)
Throttle Actuator "A" Control System - Forced Limited RPM	G*+	ETC (SYSTEM)
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+	ETC (COMPONENT)

DTC	DTCCount	Vehicle
P2111	713	Escape /Tribute / Mariner, MY10, 2.5L
P2112	295	Escape /Tribute / Mariner, MY10, 2.5L
P0122	240	Escape /Tribute / Mariner, MY10, 2.5L
P0223	229	Escape /Tribute / Mariner, MY10, 2.5L
P2101	146	Escape /Tribute / Mariner, MY10, 2.5L
P2135	92	Escape /Tribute / Mariner, MY10, 2.5L
P1124	84	Escape /Tribute / Mariner, MY10, 2.5L
P060A	73	Escape /Tribute / Mariner, MY10, 2.5L
P0600	69	Escape /Tribute / Mariner, MY10, 2.5L
P061C	32	Escape /Tribute / Mariner, MY10, 2.5L
U0300	31	Escape /Tribute / Mariner, MY10, 2.5L
P115E	27	Escape /Tribute / Mariner, MY10, 2.5L
P2107	24	Escape /Tribute / Mariner, MY10, 2.5L
P0222	22	Escape /Tribute / Mariner, MY10, 2.5L
P061B	17	Escape /Tribute / Mariner, MY10, 2.5L
P2104	14	Escape /Tribute / Mariner, MY10, 2.5L
P060C	13	Escape /Tribute / Mariner, MY10, 2.5L
P2110	11	Escape /Tribute / Mariner, MY10, 2.5L
P0123	10	Escape /Tribute / Mariner, MY10, 2.5L
P2100	8	Escape /Tribute / Mariner, MY10, 2.5L
P060D	7	Escape /Tribute / Mariner, MY10, 2.5L
P2105	7	Escape /Tribute / Mariner, MY10, 2.5L
P2106	5	Escape /Tribute / Mariner, MY10, 2.5L
P0121	4	Escape /Tribute / Mariner, MY10, 2.5L
P0221	2	Escape /Tribute / Mariner, MY10, 2.5L
P061A	1	Escape /Tribute / Mariner, MY10, 2.5L
P1120	1	Escape /Tribute / Mariner, MY10, 2.5L
P1125	1	Escape /Tribute / Mariner, MY10, 2.5L
P2072	1	Escape /Tribute / Mariner, MY10, 2.5L
P2111	96	Escape /Tribute / Mariner, MY11, 2.5L
P0122	54	Escape /Tribute / Mariner, MY11, 2.5L
P0223	52	Escape /Tribute / Mariner, MY11, 2.5L
P2112	50	Escape /Tribute / Mariner, MY11, 2.5L
P0600	20	Escape /Tribute / Mariner, MY11, 2.5L
U0300	17	Escape /Tribute / Mariner, MY11, 2.5L
P060A	16	Escape /Tribute / Mariner, MY11, 2.5L
P2101	11	Escape /Tribute / Mariner, MY11, 2.5L
P2107	10	Escape /Tribute / Mariner, MY11, 2.5L
P2135	9	Escape /Tribute / Mariner, MY11, 2.5L
P2104	8	Escape /Tribute / Mariner, MY11, 2.5L
P2110	8	Escape /Tribute / Mariner, MY11, 2.5L
P061B	7	Escape /Tribute / Mariner, MY11, 2.5L
P061C	7	Escape /Tribute / Mariner, MY11, 2.5L
P1124	6	Escape /Tribute / Mariner, MY11, 2.5L

P115E	6	Escape /Tribute / Mariner, MY11, 2.5L
P2106	6	Escape /Tribute / Mariner, MY11, 2.5L
P0121	5	Escape /Tribute / Mariner, MY11, 2.5L
P060C	4	Escape /Tribute / Mariner, MY11, 2.5L
P2100	4	Escape /Tribute / Mariner, MY11, 2.5L
P0222	3	Escape /Tribute / Mariner, MY11, 2.5L
P2105	3	Escape /Tribute / Mariner, MY11, 2.5L
P0221	2	Escape /Tribute / Mariner, MY11, 2.5L
P0123	1	Escape /Tribute / Mariner, MY11, 2.5L
P060B	1	Escape /Tribute / Mariner, MY11, 2.5L
P1120	1	Escape /Tribute / Mariner, MY11, 2.5L
P1674	1	Escape /Tribute / Mariner, MY11, 2.5L
P0223	44	Escape /Tribute / Mariner, MY12, 2.5L
P0122	43	Escape /Tribute / Mariner, MY12, 2.5L
P2111	26	Escape /Tribute / Mariner, MY12, 2.5L
P2112	17	Escape /Tribute / Mariner, MY12, 2.5L
P1124	11	Escape /Tribute / Mariner, MY12, 2.5L
P0600	8	Escape /Tribute / Mariner, MY12, 2.5L
P060A	7	Escape /Tribute / Mariner, MY12, 2.5L
P061C	7	Escape /Tribute / Mariner, MY12, 2.5L
P2107	7	Escape /Tribute / Mariner, MY12, 2.5L
U0300	7	Escape /Tribute / Mariner, MY12, 2.5L
P060C	6	Escape /Tribute / Mariner, MY12, 2.5L
P0222	4	Escape /Tribute / Mariner, MY12, 2.5L
P2101	4	Escape /Tribute / Mariner, MY12, 2.5L
P2135	4	Escape /Tribute / Mariner, MY12, 2.5L
P061A	3	Escape /Tribute / Mariner, MY12, 2.5L
P061B	3	Escape /Tribute / Mariner, MY12, 2.5L
P2104	3	Escape /Tribute / Mariner, MY12, 2.5L
P0121	2	Escape /Tribute / Mariner, MY12, 2.5L
P0221	2	Escape /Tribute / Mariner, MY12, 2.5L
P2100	2	Escape /Tribute / Mariner, MY12, 2.5L
P2105	2	Escape /Tribute / Mariner, MY12, 2.5L
P2106	2	Escape /Tribute / Mariner, MY12, 2.5L
P2110	2	Escape /Tribute / Mariner, MY12, 2.5L
P0123	1	Escape /Tribute / Mariner, MY12, 2.5L
P1120	1	Escape /Tribute / Mariner, MY12, 2.5L

DTC Description	Continuos DTC Type * = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench"
Throttle Actuator "A" Control System - Stuck Open	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Throttle Position Sensor "A" Out Of Self Test Range	
Internal Control Module Monitoring Processor Performance	G*+
Serial Communication Link	G*+
Internal Control Module Engine RPM Performance	G*+
Internal Control Module Software Incompatibility	G*+
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G
Throttle Actuator "A" Control Module Processor	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Internal Control Module Torque Calculation Performance	G*+
Throttle Actuator Control System - Forced Idle	G*+
Internal Control Module Main Processor Performance	G*+
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Internal Control Module Accelerator Pedal Position Performance	G*+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle Actuator Control System - Forced Limited Power	G*+
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Internal Control Module Torque Performance	G+
Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*
Throttle Position Sensor "A" Intermittent	G
Throttle Actuator Control System - Ice Blockage Bank 1	G+
Throttle Actuator "A" Control System - Stuck Open	G*+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Serial Communication Link	G*+
Internal Control Module Software Incompatibility	G*+
Internal Control Module Monitoring Processor Performance	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Throttle Actuator "A" Control Module Processor	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Throttle Actuator Control System - Forced Idle	G*+
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Internal Control Module Torque Calculation Performance	G*+
Internal Control Module Engine RPM Performance	G*+
Throttle Position Sensor "A" Out Of Self Test Range	

Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G
Throttle Actuator Control System - Forced Limited Power	G*+
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+
Internal Control Module Main Processor Performance	G*+
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Internal Control Module A/D Processing Performance	G*+
Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*
Control Module Software Corrupted	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle Actuator "A" Control System - Stuck Open	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Throttle Position Sensor "A" Out Of Self Test Range	
Serial Communication Link	G*+
Internal Control Module Monitoring Processor Performance	G*+
Internal Control Module Engine RPM Performance	G*+
Throttle Actuator "A" Control Module Processor	G*+
Internal Control Module Software Incompatibility	G*+
Internal Control Module Main Processor Performance	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Internal Control Module Torque Performance	G+
Internal Control Module Torque Calculation Performance	G*+
Throttle Actuator Control System - Forced Idle	G*+
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle Actuator Control System - Forced Limited Power	G*+
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*

DTC Monitor Group Description
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ETC (COMPONENT)

DTC	DTCCount	Vehicle
P2111	3187	Fusion, MY10, 3.0L
P2112	2809	Fusion, MY10, 3.0L
P0122	916	Fusion, MY10, 3.0L
P0223	909	Fusion, MY10, 3.0L
P2111	881	Fusion, MY11, 3.0L
P2111	723	Milan, MY10, 3.0L
P2112	634	Fusion, MY11, 3.0L
P2112	612	Milan, MY10, 3.0L
P2101	333	Fusion, MY10, 3.0L
P0122	255	Milan, MY10, 3.0L
P0223	253	Milan, MY10, 3.0L
P1124	252	Fusion, MY10, 3.0L
P0122	206	Fusion, MY11, 3.0L
P0223	206	Fusion, MY11, 3.0L
P2111	191	Milan, MY11, 3.0L
P2112	153	Milan, MY11, 3.0L
P2101	97	Milan, MY10, 3.0L
P1124	69	Milan, MY10, 3.0L
P2135	50	Fusion, MY10, 3.0L
P060A	47	Fusion, MY10, 3.0L
P1124	41	Fusion, MY11, 3.0L
P2101	39	Fusion, MY11, 3.0L
P0122	39	Milan, MY11, 3.0L
P0223	39	Milan, MY11, 3.0L
P0222	30	Fusion, MY10, 3.0L
P2107	25	Fusion, MY10, 3.0L
P061B	22	Fusion, MY10, 3.0L
P0122	22	Fusion, MY12, 3.0L
P0223	21	Fusion, MY12, 3.0L
P0600	20	Fusion, MY10, 3.0L
P115E	18	Fusion, MY10, 3.0L
P2101	16	Milan, MY11, 3.0L
P2111	14	Fusion, MY12, 3.0L
P1124	13	Milan, MY11, 3.0L
P061C	11	Fusion, MY10, 3.0L
P060A	11	Fusion, MY11, 3.0L
P1124	11	Fusion, MY12, 3.0L
P2112	11	Fusion, MY12, 3.0L
P0222	11	Milan, MY10, 3.0L
P0123	10	Fusion, MY10, 3.0L
P2104	10	Fusion, MY10, 3.0L
P0600	10	Fusion, MY11, 3.0L
P0123	10	Fusion, MY12, 3.0L
P0222	10	Fusion, MY12, 3.0L
P2110	8	Fusion, MY10, 3.0L
U0300	8	Fusion, MY10, 3.0L

U0300	8	Fusion, MY11, 3.0L
P2135	8	Milan, MY10, 3.0L
P2106	7	Fusion, MY10, 3.0L
P0222	7	Fusion, MY11, 3.0L
P060A	7	Milan, MY10, 3.0L
P060D	6	Fusion, MY10, 3.0L
P0123	6	Fusion, MY11, 3.0L
P2100	5	Fusion, MY10, 3.0L
P0121	4	Fusion, MY10, 3.0L
P0600	4	Fusion, MY12, 3.0L
P060A	4	Fusion, MY12, 3.0L
P2107	4	Milan, MY10, 3.0L
P2105	3	Fusion, MY10, 3.0L
P061B	3	Fusion, MY11, 3.0L
P2135	3	Fusion, MY11, 3.0L
U0300	3	Fusion, MY12, 3.0L
P0600	3	Milan, MY10, 3.0L
U0300	3	Milan, MY10, 3.0L
P060B	2	Fusion, MY10, 3.0L
P0221	2	Fusion, MY11, 3.0L
P2100	2	Fusion, MY11, 3.0L
P2107	2	Fusion, MY11, 3.0L
P2107	2	Fusion, MY12, 3.0L
P0123	2	Milan, MY10, 3.0L
P061C	2	Milan, MY10, 3.0L
P2100	2	Milan, MY10, 3.0L
P2105	2	Milan, MY10, 3.0L
P1120	1	Fusion, MY10, 3.0L
P1121	1	Fusion, MY10, 3.0L
P1125	1	Fusion, MY10, 3.0L
P060C	1	Fusion, MY11, 3.0L
P061C	1	Fusion, MY11, 3.0L
P115E	1	Fusion, MY11, 3.0L
P2104	1	Fusion, MY11, 3.0L
P2105	1	Fusion, MY11, 3.0L
P2106	1	Fusion, MY11, 3.0L
P2110	1	Fusion, MY11, 3.0L
P061B	1	Fusion, MY12, 3.0L
P0121	1	Milan, MY10, 3.0L
P060B	1	Milan, MY10, 3.0L
P060C	1	Milan, MY10, 3.0L
P061B	1	Milan, MY10, 3.0L
P1121	1	Milan, MY10, 3.0L
P2072	1	Milan, MY10, 3.0L
P2104	1	Milan, MY10, 3.0L
P2110	1	Milan, MY10, 3.0L
P0123	1	Milan, MY11, 3.0L

P0222	1	Milan, MY11, 3.0L
P0600	1	Milan, MY11, 3.0L
P060A	1	Milan, MY11, 3.0L
P061B	1	Milan, MY11, 3.0L

DTC Description
Throttle Actuator "A" Control System - Stuck Open
Throttle Actuator "A" Control System - Stuck Closed
Throttle/Pedal Position Sensor "A" Circuit Low
Throttle/Pedal Position Sensor/Switch "B" Circuit High
Throttle Actuator "A" Control System - Stuck Open
Throttle Actuator "A" Control System - Stuck Open
Throttle Actuator "A" Control System - Stuck Closed
Throttle Actuator "A" Control System - Stuck Closed
Throttle Actuator "A" Control Motor Circuit Range/Performance
Throttle/Pedal Position Sensor "A" Circuit Low
Throttle/Pedal Position Sensor/Switch "B" Circuit High
Throttle Position Sensor "A" Out Of Self Test Range
Throttle/Pedal Position Sensor "A" Circuit Low
Throttle/Pedal Position Sensor/Switch "B" Circuit High
Throttle Actuator "A" Control System - Stuck Open
Throttle Actuator "A" Control System - Stuck Closed
Throttle Actuator "A" Control Motor Circuit Range/Performance
Throttle Position Sensor "A" Out Of Self Test Range
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
Internal Control Module Monitoring Processor Performance
Throttle Position Sensor "A" Out Of Self Test Range
Throttle Actuator "A" Control Motor Circuit Range/Performance
Throttle/Pedal Position Sensor "A" Circuit Low
Throttle/Pedal Position Sensor/Switch "B" Circuit High
Throttle/Pedal Position Sensor/Switch "B" Circuit Low
Throttle Actuator "A" Control Module Processor
Internal Control Module Torque Calculation Performance
Throttle/Pedal Position Sensor "A" Circuit Low
Throttle/Pedal Position Sensor/Switch "B" Circuit High
Serial Communication Link
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit
Throttle Actuator "A" Control Motor Circuit Range/Performance
Throttle Actuator "A" Control System - Stuck Open
Throttle Position Sensor "A" Out Of Self Test Range
Internal Control Module Engine RPM Performance
Internal Control Module Monitoring Processor Performance
Throttle Position Sensor "A" Out Of Self Test Range
Throttle Actuator "A" Control System - Stuck Closed
Throttle/Pedal Position Sensor/Switch "B" Circuit Low
Throttle/Pedal Position Sensor "A" Circuit High
Throttle Actuator Control System - Forced Idle
Serial Communication Link
Throttle/Pedal Position Sensor "A" Circuit High
Throttle/Pedal Position Sensor/Switch "B" Circuit Low
Throttle Actuator "A" Control System - Forced Limited RPM
Internal Control Module Software Incompatibility

Internal Control Module Software Incompatibility
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
Throttle Actuator Control System - Forced Limited Power
Throttle/Pedal Position Sensor/Switch "B" Circuit Low
Internal Control Module Monitoring Processor Performance
Internal Control Module Accelerator Pedal Position Performance
Throttle/Pedal Position Sensor "A" Circuit High
Throttle Actuator "A" Control Motor Circuit/Open
Throttle/Pedal Position Sensor "A" Circuit Range/Performance
Serial Communication Link
Internal Control Module Monitoring Processor Performance
Throttle Actuator "A" Control Module Processor
Throttle Actuator Control System - Forced Engine Shutdown
Internal Control Module Torque Calculation Performance
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation
Internal Control Module Software Incompatibility
Serial Communication Link
Internal Control Module Software Incompatibility
Internal Control Module A/D Processing Performance
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance
Throttle Actuator "A" Control Motor Circuit/Open
Throttle Actuator "A" Control Module Processor
Throttle Actuator "A" Control Module Processor
Throttle/Pedal Position Sensor "A" Circuit High
Internal Control Module Engine RPM Performance
Throttle Actuator "A" Control Motor Circuit/Open
Throttle Actuator Control System - Forced Engine Shutdown
Throttle Position Sensor "A" Out Of Range Low (Ratch too low)
Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor
Throttle Position Sensor "A" Intermittent
Internal Control Module Main Processor Performance
Internal Control Module Engine RPM Performance
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit
Throttle Actuator Control System - Forced Idle
Throttle Actuator Control System - Forced Engine Shutdown
Throttle Actuator Control System - Forced Limited Power
Throttle Actuator "A" Control System - Forced Limited RPM
Internal Control Module Torque Calculation Performance
Throttle/Pedal Position Sensor "A" Circuit Range/Performance
Internal Control Module A/D Processing Performance
Internal Control Module Main Processor Performance
Internal Control Module Torque Calculation Performance
Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor
Throttle Actuator Control System - Ice Blockage Bank 1
Throttle Actuator Control System - Forced Idle
Throttle Actuator "A" Control System - Forced Limited RPM
Throttle/Pedal Position Sensor "A" Circuit High

Throttle/Pedal Position Sensor/Switch "B" Circuit Low
Serial Communication Link
Internal Control Module Monitoring Processor Performance
Internal Control Module Torque Calculation Performance

Continuos DTC Type * = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light	DTC Monitor Group Description
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
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G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G	ETC (SYSTEM)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
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G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
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G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
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G*+	ETC (SYSTEM)
G	ETC (COMPONENT)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*	ETC (COMPONENT)
G*	ETC (COMPONENT)
G	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*	ETC (COMPONENT)
G+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (COMPONENT)

G*+	ETC (COMPONENT)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)
G*+	ETC (SYSTEM)

DTC	DTCCount	Vehicle
P2111	4634	Fusion, MY10, 2.5L
P060A	3335	Fusion, MY10, 2.5L
P2112	2061	Fusion, MY10, 2.5L
P061A	1058	Fusion, MY10, 2.5L
P0122	1045	Fusion, MY10, 2.5L
P0223	1022	Fusion, MY10, 2.5L
P2101	337	Fusion, MY10, 2.5L
P0600	231	Fusion, MY10, 2.5L
P1124	223	Fusion, MY10, 2.5L
P2135	166	Fusion, MY10, 2.5L
P0222	90	Fusion, MY10, 2.5L
P2107	66	Fusion, MY10, 2.5L
U0300	66	Fusion, MY10, 2.5L
P061C	65	Fusion, MY10, 2.5L
P061B	52	Fusion, MY10, 2.5L
P1145	45	Fusion, MY10, 2.5L
P0123	29	Fusion, MY10, 2.5L
P060C	26	Fusion, MY10, 2.5L
P060D	18	Fusion, MY10, 2.5L
P2104	18	Fusion, MY10, 2.5L
P2110	18	Fusion, MY10, 2.5L
P2106	12	Fusion, MY10, 2.5L
P2100	9	Fusion, MY10, 2.5L
P115E	8	Fusion, MY10, 2.5L
P0121	7	Fusion, MY10, 2.5L
P0221	7	Fusion, MY10, 2.5L
P060B	4	Fusion, MY10, 2.5L
P2072	3	Fusion, MY10, 2.5L
P2105	3	Fusion, MY10, 2.5L
P1120	2	Fusion, MY10, 2.5L
P1125	2	Fusion, MY10, 2.5L
P061F	1	Fusion, MY10, 2.5L
P1121	1	Fusion, MY10, 2.5L
P162E	1	Fusion, MY10, 2.5L
P2176	1	Fusion, MY10, 2.5L
P2111	404	Fusion, MY11, 2.5L
P2112	175	Fusion, MY11, 2.5L
P0122	134	Fusion, MY11, 2.5L
P0223	131	Fusion, MY11, 2.5L
P2101	32	Fusion, MY11, 2.5L
P1124	30	Fusion, MY11, 2.5L
P0222	18	Fusion, MY11, 2.5L
P060A	18	Fusion, MY11, 2.5L
P0600	16	Fusion, MY11, 2.5L

P061B	16	Fusion, MY11, 2.5L
P2135	15	Fusion, MY11, 2.5L
P2107	12	Fusion, MY11, 2.5L
U0300	10	Fusion, MY11, 2.5L
P061C	7	Fusion, MY11, 2.5L
P1145	7	Fusion, MY11, 2.5L
P0123	5	Fusion, MY11, 2.5L
P2104	5	Fusion, MY11, 2.5L
P2110	4	Fusion, MY11, 2.5L
P0121	3	Fusion, MY11, 2.5L
P061A	3	Fusion, MY11, 2.5L
P115E	3	Fusion, MY11, 2.5L
P2100	3	Fusion, MY11, 2.5L
P2106	3	Fusion, MY11, 2.5L
P060B	2	Fusion, MY11, 2.5L
P2072	2	Fusion, MY11, 2.5L
P2105	2	Fusion, MY11, 2.5L
P0220	1	Fusion, MY11, 2.5L
P0221	1	Fusion, MY11, 2.5L
P060C	1	Fusion, MY11, 2.5L
P060D	1	Fusion, MY11, 2.5L
P1120	1	Fusion, MY11, 2.5L
P162E	1	Fusion, MY11, 2.5L
P0223	65	Fusion, MY12, 2.5L
P0122	64	Fusion, MY12, 2.5L
P2111	24	Fusion, MY12, 2.5L
P0600	11	Fusion, MY12, 2.5L
P060A	11	Fusion, MY12, 2.5L
P2135	11	Fusion, MY12, 2.5L
P0222	10	Fusion, MY12, 2.5L
P1124	9	Fusion, MY12, 2.5L
U0300	9	Fusion, MY12, 2.5L
P2107	8	Fusion, MY12, 2.5L
P2112	8	Fusion, MY12, 2.5L
P0123	7	Fusion, MY12, 2.5L
P2101	6	Fusion, MY12, 2.5L
P061B	5	Fusion, MY12, 2.5L
P061C	5	Fusion, MY12, 2.5L
P0221	2	Fusion, MY12, 2.5L
P1145	2	Fusion, MY12, 2.5L
P2100	2	Fusion, MY12, 2.5L
P2110	2	Fusion, MY12, 2.5L
P0121	1	Fusion, MY12, 2.5L
P2104	1	Fusion, MY12, 2.5L
P2105	1	Fusion, MY12, 2.5L
P2106	1	Fusion, MY12, 2.5L
P2111	366	Milan, MY10, 2.5L

P060A	347	Milan, MY10, 2.5L
P2112	157	Milan, MY10, 2.5L
P061A	109	Milan, MY10, 2.5L
P0122	98	Milan, MY10, 2.5L
P0223	92	Milan, MY10, 2.5L
P0600	38	Milan, MY10, 2.5L
P2101	32	Milan, MY10, 2.5L
P1124	27	Milan, MY10, 2.5L
P2107	15	Milan, MY10, 2.5L
P2135	15	Milan, MY10, 2.5L
P0222	12	Milan, MY10, 2.5L
P061C	12	Milan, MY10, 2.5L
U0300	10	Milan, MY10, 2.5L
P0123	6	Milan, MY10, 2.5L
P061B	5	Milan, MY10, 2.5L
P2104	5	Milan, MY10, 2.5L
P2100	3	Milan, MY10, 2.5L
P2105	3	Milan, MY10, 2.5L
P0221	2	Milan, MY10, 2.5L
P060C	2	Milan, MY10, 2.5L
P060D	2	Milan, MY10, 2.5L
P1145	2	Milan, MY10, 2.5L
P2110	2	Milan, MY10, 2.5L
P060B	1	Milan, MY10, 2.5L
P115E	1	Milan, MY10, 2.5L
P2106	1	Milan, MY10, 2.5L
P2111	10	Milan, MY11, 2.5L
P0122	2	Milan, MY11, 2.5L
P0223	2	Milan, MY11, 2.5L
P2101	2	Milan, MY11, 2.5L
P2112	2	Milan, MY11, 2.5L
P0600	1	Milan, MY11, 2.5L
P060A	1	Milan, MY11, 2.5L
P2135	1	Milan, MY11, 2.5L
U0300	1	Milan, MY11, 2.5L

DTC Description	Continuos DTC Type * = MIL illuminates, ^ = O/D Cancel flashes, + = "Wrench" light
Throttle Actuator "A" Control System - Stuck Open	G*+
Internal Control Module Monitoring Processor Performance	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Internal Control Module Torque Performance	G+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Serial Communication Link	G*+
Throttle Position Sensor "A" Out Of Self Test Range	
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Throttle Actuator "A" Control Module Processor	G*+
Internal Control Module Software Incompatibility	G*+
Internal Control Module Engine RPM Performance	G*+
Internal Control Module Torque Calculation Performance	G*+
Calculated Torque Error	G
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Internal Control Module Main Processor Performance	G*+
Internal Control Module Accelerator Pedal Position Performance	G*+
Throttle Actuator Control System - Forced Idle	G*+
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Throttle Actuator Control System - Forced Limited Power	G*+
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Internal Control Module A/D Processing Performance	G*+
Throttle Actuator Control System - Ice Blockage Bank 1	G+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*
Throttle Position Sensor "A" Intermittent	G
Internal Control Module Throttle Actuator Controller Performance	G*+
Throttle Position Sensor "A" Inconsistent With MAF/MAP Sensor	G*
Internal Control Module PTO Control Performance	
Throttle Actuator "A" Control System - Idle Position Not Learned	G*+
Throttle Actuator "A" Control System - Stuck Open	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Throttle Position Sensor "A" Out Of Self Test Range	
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Internal Control Module Monitoring Processor Performance	G*+
Serial Communication Link	G*+

Internal Control Module Torque Calculation Performance	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Throttle Actuator "A" Control Module Processor	G*+
Internal Control Module Software Incompatibility	G*+
Internal Control Module Engine RPM Performance	G*+
Calculated Torque Error	G
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Throttle Actuator Control System - Forced Idle	G*+
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+
Internal Control Module Torque Performance	G+
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Throttle Actuator Control System - Forced Limited Power	G*+
Internal Control Module A/D Processing Performance	G*+
Throttle Actuator Control System - Ice Blockage Bank 1	G+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit	
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Internal Control Module Main Processor Performance	G*+
Internal Control Module Accelerator Pedal Position Performance	G*+
Throttle Position Sensor "A" Out Of Range Low (Ratch too low)	G*
Internal Control Module PTO Control Performance	
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle Actuator "A" Control System - Stuck Open	G*+
Serial Communication Link	G*+
Internal Control Module Monitoring Processor Performance	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Throttle Position Sensor "A" Out Of Self Test Range	
Internal Control Module Software Incompatibility	G*+
Throttle Actuator "A" Control Module Processor	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Internal Control Module Torque Calculation Performance	G*+
Internal Control Module Engine RPM Performance	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Calculated Torque Error	G
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Throttle/Pedal Position Sensor "A" Circuit Range/Performance	G*+
Throttle Actuator Control System - Forced Idle	G*+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle Actuator Control System - Forced Limited Power	G*+
Throttle Actuator "A" Control System - Stuck Open	G*+

Internal Control Module Monitoring Processor Performance	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Internal Control Module Torque Performance	G+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Serial Communication Link	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Throttle Position Sensor "A" Out Of Self Test Range	
Throttle Actuator "A" Control Module Processor	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Low	G*+
Internal Control Module Engine RPM Performance	G*+
Internal Control Module Software Incompatibility	G*+
Throttle/Pedal Position Sensor "A" Circuit High	G*+
Internal Control Module Torque Calculation Performance	G*+
Throttle Actuator Control System - Forced Idle	G*+
Throttle Actuator "A" Control Motor Circuit/Open	G*+
Throttle Actuator Control System - Forced Engine Shutdown	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit Range/Performance	G
Internal Control Module Main Processor Performance	G*+
Internal Control Module Accelerator Pedal Position Performance	G*+
Calculated Torque Error	G
Throttle Actuator "A" Control System - Forced Limited RPM	G*+
Internal Control Module A/D Processing Performance	G*+
Throttle Actuator Control Throttle Body Air Flow Trim at Max Limit	G
Throttle Actuator Control System - Forced Limited Power	G*+
Throttle Actuator "A" Control System - Stuck Open	G*+
Throttle/Pedal Position Sensor "A" Circuit Low	G*+
Throttle/Pedal Position Sensor/Switch "B" Circuit High	G*+
Throttle Actuator "A" Control Motor Circuit Range/Performance	G*+
Throttle Actuator "A" Control System - Stuck Closed	G*+
Serial Communication Link	G*+
Internal Control Module Monitoring Processor Performance	G*+
Throttle/Pedal Position Sensor/Switch "A"/"B" Voltage Correlation	G*+
Internal Control Module Software Incompatibility	G*+

DTC Monitor Group	Description
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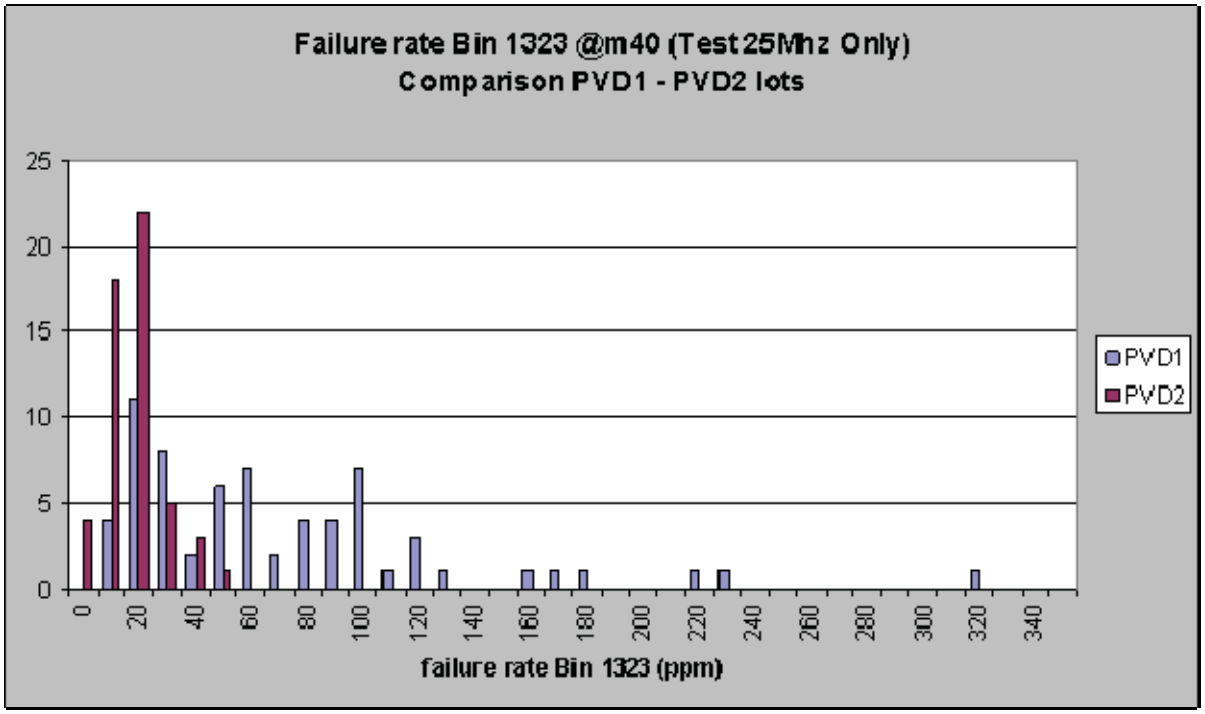
From: O'Neill, Daniel P <daniel.p.o.neill@delphi.com>
Sent: Monday, February 22, 2010 4:00 PM
To: Vincent Vanzeveren
Cc: Gwenaelle Page; bis@melexis.com; Chabon, Michael (W.); Bos, Ed (E.A.); ela@melexis.com
Subject: First Time Quality Data with Salicide Corrective Action

Vincent per the email below, we would like to see the data for the Failure rate Bin 1323 @m40. Below is the data that compares the PVD1 and PVD2 lots showing the improvement when the digital timing error was fixed. We would like to see this data now that we have replaced RPT1 with CVDP2 to correct for the salicide issue.

Can you send this data to the distribution by tomorrow? If you do not understand the request please set up a conf call with Nicte and me for tomorrow at 10:00am EST (8:00am Juarez time).

Much like the graph below showed improvement with the Digital Timing Corrective action we are expecting a similar trend with the Salicide corrective action in place.



Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623

Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: O'Neill, Daniel P <daniel.p.o.neill@delphi.com>
Sent: Friday, August 14, 2009 9:42 AM
To: Langley, Scott (C.S.); Chabon, Michael (W.); Salvador, Nicte
Cc: Godoy, Arquimedes ; Zuniga, Ruben ; Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Cook, Dale K
Subject: Ford ETB/ TPS PCB Quality Issue - Contamination of vias hole - DATA MINING OF WARRANTY ANALYSIS

We should have something to review with respect to data mining the warranty returns by early afternoon.

Nicte can you send Dale and I the VIN numbers of the warranty returns you screened for the vias contamination issue. I believe you said you checked 11 warranty returns and they all passed the test.

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623
Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: Langley, Scott (C.S.) [mailto:slangle1@ford.com]
Sent: Friday, August 14, 2009 12:27 AM
To: O'Neill, Daniel P; Chabon, Michael (W.)
Cc: Godoy, Arquimedes ; Salvador, Nicte ; Zuniga, Ruben ; Parkinson, Tim (T.M.); Davis, Andrae (A.L.)
Subject: RE: Ford ETB/ TPS PCB Quality Issue - Contamination of vias hole

8D feedback
I was pulled away from our meeting today, so I apologize if this was covered in there...

We have been talking about 2111 and 2135, but I see the the "3rd ETB Return" shows a P0122... TP-A (TP1) circuit Low. I would actually consider that to be the "primary code." TP signal drops out low and that causes 2111 and 2135.
Can we please find out ALL of the P-codes for each of the returns from the VO plant? We need to be very specific. It's critical for the risk evaluation. Let me know if you'd like our help to chase that down.

Do we have any warranty returns with a P0122 that have not yet been analyzed or were analyzed and have not firmly been determined to be the Chip timing error... on the chip removed from the board?

Page 6... PN shows 9W7E
Step 1 and Step 2 not specifically called out... starts with "Step 3" on page 6.

Please provide the full description of the "Melexis Application Test." within the 8D... Overclock Test, 2000 msec, 25 MHz, 2.9 V ?

Sincerely,
Scott Langley

PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: O'Neill, Daniel P [mailto:daniel.p.o.neill@delphi.com]
Sent: Thursday, August 13, 2009 7:12 PM
To: Langley, Scott (C.S.); jgburger2003@yahoo.com; Chabon, Michael (W.)
Cc: Godoy, Arquimedes ; Salvador, Nicte ; Zuniga, Ruben
Subject: Ford ETB/ TPS PCB Quality Issue - Contamination of vias hole
Importance: High

Please find attached a copy of the 8D.

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623
Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: Zuniga, Ruben
Sent: Thursday, August 13, 2009 6:49 PM
To: O'Neill, Daniel P
Cc: Christian, James M
Subject: Ford ETB/ TPS Quality issues...
Importance: High

Rubén Zúñiga
GM Air Meter & Ford ETB
Customer Contact & Quality Engineer
Delphi Powertrain Systems
Plant 35 Cd. Juarez, Chihuahua, Mexico
USA Work Ph. (915) 612-2804
Mex. Work Ph. (656) 649-2804
USA Pager # (915) 983-6515
USA Fax # (915) 612-2998
e-mail: ruben.zuniga@delphi.com

agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the message and deleting it from your computer. Thank you.

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Note: If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the message and deleting it from your computer. Thank you.

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From: Boerger, Jim (J.G.)
Sent: Wednesday, October 10, 2012 10:11 AM
To: Hall, Brent (A.)
Subject: FW: 2010-11 Fusion Throttle Body related Stall
Signed By: jboerger@ford.com

Brent - can you also engage in this project? Thanks, Jim

Jim Boerger
Manager - Component Design C Department
Global Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

Share the Ford story at http://www.thefordstory.com

-----Original Message-----
From: Chabon, Michael (W.)
Sent: Wednesday, October 10, 2012 8:58 AM
To: Patel, Bharat (B.J.); Hwang, Sheng-Jiaw (S.J.); Schultz, Matthew (M.J.); King, Lamar (L.L.)
Cc: Boerger, Jim (J.G.)
Subject: RE: 2010-11 Fusion Throttle Body related Stall

Team, I understand this is a limited time slot, however I will be travelling (on vacation) at this time and can support audio only.

I am on vacation next week so I don't propose we delay the meeting .

Michael W. Chabon
Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

-----Original Appointment-----
From: Patel, Bharat (B.J.)
Sent: Monday, October 08, 2012 12:05 PM
To: Patel, Bharat (B.J.); Hwang, Sheng-Jiaw (S.J.); Chabon, Michael (W.); Schultz, Matthew (M.J.); King, Lamar (L.L.)
Subject: 2010-11 Fusion Throttle Body related Stall

When: Friday, October 12, 2012 1:30 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Bharat's Office (GBA77 - PDC), Teleconf (30433432#), Webex

Review data provided by the Ford Safety Office that needs further discussion with PTSE Engineering team

Matt: your involvement in the discussion at this stage should be very minimal - specifically, if engineering wants to better understand how the data was cut. I have a general idea, but if they have some specific questions on the filtering than you would be in a better position to explain this.

Mike / Sheng-Jiaw: My hope is the share the data with you and give you some time (1-2) weeks to analyze the data so that we can have a deep dive discussion with ASO & OGC and discuss appropriate next steps. For advanced review, I am including the data provided to me by ASO in this mtg notice but some of the data may not initially make sense unless it is further explained.

<< File: Bharat Oct. 1, 2012.pdf >>

Bharat Patel invites you to an online meeting using WebEx.

WebEx meeting information

Meeting Number: 715 811 566
Meeting Link: https://ford.webex.com/ford/j.php?J=715811566
Meeting Password: This meeting does not require a password.

Audio conference information

None

MC06

http://www.webex.com

From: Boerger, Jim (J.G.)
Sent: Thursday, September 02, 2010 9:09 PM
To: Langley, Scott (C.S.)
Subject: FW: 3 ETBs Reported By VO (HSAP,KCAP)

Any insight on this? Is someone following up on this? Thx, Jim

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Makowski, Scott (S.A.)
Sent: Thursday, September 02, 2010 6:58 PM
To: Boerger, Jim (J.G.)
Subject: FW: 3 ETBs Reported By VO (HSAP,KCAP)

Are you aware of this?

Regards
Scott Makowski
Manager - Global Large I4 Programs
Phone: (313)33-75687 ; Cell (313)805-1125
Bldg#1, Office 13B006 - Mail Drop 1102
E-mail: SMAKOWSK@FORD.COM

From: Urquidi, Ernesto (E.)
Sent: Thursday, September 02, 2010 9:42 AM
To: Makowski, Scott (S.A.)
Subject: FW: 3 ETBs Reported By VO (HSAP,KCAP)

fyi

Ernesto Urquidi
ME & Quality Area Manager
Chihuahua Engine Plant
Ford Motor Company
Phone: (614) 429-4345
Fax: (614) 429-4004
Ford Net: 975-4345

From: Castillo, Luis Antonio (L.)
Sent: Wednesday, September 01, 2010 3:15 PM
To: Langley, Scott (C.S.)
Cc: Zuniga, Ruben; Aldana, Oswaldo (OA.); Montes, Javier (J.); Lozoya, Ivonne (I.L.); Jaquez, Gilberto; 'Rosales, Martin'; Urquidi, Ernesto (E.)
Subject: 3 ETBs Reported By VO (HSAP,KCAP)

Hello Scott, today we received 3 ETBs reported by VO as Failed ETBs.
We tested on CHEP Vehicle and we got some engine malfunction and DTCs , I am ataching the report, What took our attention is that the failure shows up when we increase the RPMs to 6,000, and doing this to the original vehicle ETB (free

of problems) we got the same failure. Could you please help us to understand why the vehicle is doing this, if the vehicle is trying to protect it self due high RPMs , it should send other code intead of ETB codes?.

Delphi rep was present during the testing, 2 of the suspect parts are going to delphi for analysis, and one is staying here for continue with the test on vehicle on highway.

Base on this could we have a meeting tomorrow to disccus this and determine what will be the next steps.

Regards!!
Thx.

Luis Antonio Castillo
Engine Exchange
Quality Engineering
Chihuahua Engine Plant
Phone 52-614-4294271
Cell 52-614-2077-313

		DTC Codes Tested at CHEP Vehicle (Fusion)							
VO	ETB serial Number	P0123	P2111	P2135	P0122	P0222	P0505	Comments	Symptoms	DTC codes Reported by VO
HSAP	102003001527	yes	yes	yes				Failure at 6000 Rpms with not load ,Transmission on Neutral position,	When Failure is present, the vehicle vibrates, has lack of power, Does not respond. Wrench light on only, Check Engine light remained off. After engine Power off the failure and Wrench light disappear.	P2112
HSAP	093573007601		yes	yes	yes	yes		Failure at 6000 Rpms with not load ,Transmission on Neutral position	When Failure is present, the vehicle vibrates, has lack of power, Does not respond. Wrench light on only, Check Engine light remained off. After engine Power off the failure and Wrench light disappear.	P2135
Kansas	102023000852		yes	yes		yes	yes	Failure at 6000 Rpms with not load ,Transmission on Neutral position	When Failure is present, the vehicle vibrates, has lack of power, Does not respond. Wrench light on only, Check Engine light remained off. After engine Power off the failure and Wrench light disappear.	P2135

	2010 OBD-II 5 DIGIT CODE INTERPRETATION	Spark Ignition		
COD		KOEO	KOER	CONT
P0122	THROTTLE / PEDAL POSITION SENSOR A (TP-A) CIRCUIT LOW	G	G	G * +
P0123	THROTTLE / PEDAL POSITION SENSOR A (TP-A) CIRCUIT HIGH	G	G	G * +
P0222	THROTTLE / PEDAL POSITION SENSOR / SWITCH B (TP-B) CIRCUIT LOW	G	G	G * +
P0505	IDLE CONTROL SYSTEM		G	
P2111	THROTTLE ACTUATOR "A" CONTROL SYSTEM - STUCK OPEN			G * +
P2135	THROTTLE / PEDAL POSITION SENSOR / SWITCH A / B VOLTAGE CORRELATION			G * +

From: Langley, Scott (C.S.)
Sent: Wednesday, August 19, 2009 11:16 PM
To: Hall, Brent (A.)
Subject: FW: Background on SSM vs. TSB relative to Chip Timing Issue...

From: Langley, Scott (C.S.)
Sent: Wednesday, August 19, 2009 11:15 PM
To: Chabon, Michael (W.); Boerger, Jim (J.G.); Parkinson, Tim (T.M.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: FW: Background on SSM vs. TSB relative to Chip Timing Issue...

See below for some background info and philosophy on TSBs.
This discussion below was relative to the **SSM 20897 on the chip timing issue.**

Here are some further comments:

- We should tend toward "limiting" the number of TSB's… AND, the TSB SHOULD BE VALUE-ADDED!
- Jose's comment "...we think, utilizing the best way to communicate to the dealers is by utilizing existing publications and available resources (PCED/WSM/OG etc.)" is straightforward.
- Jose makes a comment that implies a TSB would increase diag time, while Jennifer seems to think it will decrease it. I'm not sure which is the case.
- I would think TSB only helps reduce diag time (and therefore cost) if it avoids the diag and points directly at a component.
- Even if the TSB helps diag time for some claims (-$40?), I believe this one would cause many more erroneous t/body replacements at ~$250 to $300 each.
- Stop Ships cannot require TSBs, it would make no sense. Some (we hope most) stop-ships prevent the issue from even reaching the field. Therefore, no service action is required for those cases.
- We will have to run the repeat repairs to determine how many of the TPS circuit claims in the current list are mis-binned against the ETB for wire harness issues.
  But, I know they're in there… there is some level that I've seen already.

Let me know if you'd like me to join you for whatever meeting is being set up.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Chacon, Jose (A.)
Sent: Tuesday, August 18, 2009 12:55 PM
To: McDonagh, Scot (S.M.); Langley, Scott (C.S.)
Cc: Querio, Jennifer (J.); Gudino Mendoza, Martin (J.M.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

Scot/Scott,

Thanks for re-reviewing this portion with the team(s). At this point our program continues supporting the SSM release, since the part in question did not change physically nor an engineering change when into place. The concern with the part was a process that builds the part that got out of control and a new part number was not needed. In our

perspective, creating a TSB would of increased the diagnostic time and part replacement on every repair and repeating the PCED diagnosis on every repair. In the SSM case, were we advise the dealer the throttle body in question is to replace it; however, before replacing the throttle body, it advices to check wiring and use existing PCED manual for diagnosis (This reduces resources to republish what was already published in the PCED/WSM) In the SSM case the dealer may or may not include diagnostic time, thus saving costs of the repair.

We understand both teams strive to get the most up-to-date service information available. We will work with our internal teams to review proper course of actions between SSM vs. TSB releases. This particular concern is not an SSM VS. TSB issue, we think, utilizing the best way to communicate to the dealers is by utilizing existing publications and available resources (PCED/WSM/OG etc.)

Once again thanks for your support on this matter and we continue moving forward with additional service actions.

Regards,

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(313) 317-7047

From: Querio, Jennifer (J.)
Sent: Wednesday, August 12, 2009 10:41 AM
To: McDonagh, Scot (S.M.); Langley, Scott (C.S.); Chacon, Jose (A.); Gudino Mendoza, Martin (J.M.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

FYI…
For supplier quality issues, if part number is not changed, then we need to provide a way to differentiate good/bad part (i.e. Julian date code, paint dot, etc.). That can be done in TSB with graphic showing location of marking and verbiage (example attached). QCN does not extend to dealer stock nor export market part depots. Those parts will not be scrapped and/or reworked by supplier. They will be installed in vehicle per SSM and return for repeat repair. If you specify "replace part for supplier quality issue if it meets this criteria", then you'll decrease your warranty for diagnostic time and unnecessary replacement. There is no way to monitor/control SSM usage.

<< File: TSB 09-2-3.pdf >>
Sincerely,
Jennifer Querio
Escape PVT - FCSD Product Concern Engineer
(313) 323-2381
jquerio@ford.com

From: Querio, Jennifer (J.)
Sent: Wednesday, August 12, 2009 10:14 AM
To: McDonagh, Scot (S.M.); Langley, Scott (C.S.); Chacon, Jose (A.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

I requested the QCN, because I had reports after the SSM.

I'm Ok with leaving SSM. For future reference…
TSB = final fix
SSM = information Only

From: McDonagh, Scot (S.M.)
Sent: Wednesday, August 12, 2009 9:51 AM
To: Langley, Scott (C.S.); Querio, Jennifer (J.); Chacon, Jose (A.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

Thanks Scott

Jennifer/Jose- I'm not convinced this concern justifies superseding the SSM with a TSB release. Do you have CQIS reports, business case that would substantiate a TSB release or do you agree to monitor and revisit if needed ? Thanks

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Langley, Scott (C.S.)
Sent: Wednesday, August 12, 2009 9:38 AM
To: Van Nortwick, Kelvin (K.L.); McDonagh, Scot (S.M.); Querio, Jennifer (J.); Chacon, Jose (A.); Gudino Mendoza, Martin (J.M.)
Cc: Dixon, Mark (M.R.); Cervenan, Neil (N.J.); Cowher, Terry (T.); 'Zuniga, Ruben '; 'Rosales, Martin'
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

Any Stock shipped with a Delphi ETB Build Date of 5/27/09 or later is certified stock.

Note that there were also previous build dates at Delphi that were entirely clean… utilized chips from a PVD2 process that is superior to the process of concern (PVD1) and has not shown any defects for the chip timing error.
ALSO NOTE that the Upper end of the failure rate on the suspect PVD1 process is expected to be 173ppm.
We absolutely need to keep that in perspective so that this is not blown out of proportion.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Van Nortwick, Kelvin (K.L.)
Sent: Wednesday, August 12, 2009 9:25 AM
To: McDonagh, Scot (S.M.); Querio, Jennifer (J.); Chacon, Jose (A.); Gudino Mendoza, Martin (J.M.); Langley, Scott (C.S.)
Cc: Dixon, Mark (M.R.); Cervenan, Neil (N.J.); Cowher, Terry (T.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

The QCN cleaned the suspect stock from the Depots for FCSD. The QCN did not contain a stated clean service date, but any stock shipped to FCSD after the QCN was issued should be certified stock. The QCN was issued by FCSD on 8/4/2009

From: McDonagh, Scot (S.M.)
Sent: Tuesday, August 11, 2009 11:54 AM
To: Querio, Jennifer (J.); Chacon, Jose (A.); Gudino Mendoza, Martin (J.M.); Langley, Scott (C.S.); Van Nortwick, Kelvin (K.L.)
Cc: Dixon, Mark (M.R.); Cervenan, Neil (N.J.); Cowher, Terry (T.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

Can Kelvin confirm clean service stock date ? Are we reworking existing service stock per Mr. Langley's directive ? Will ask Mr. Langley for feedback on converting SSM 20897 to a TSB.

OASIS SPECIAL SERVICE MESSAGE NUMBER: 20897

MESSAGE TITLE: 2009 ESCAPE/MARINER, ESCAPE/MARINER HEV, AND 2010 FUSION/MILAN, FUSION/MILAN HYBRIDS BUILT BEFORE 06/15/09 - DIAGNOSTIC TROUBLE CODES

APPLICABLE VEHICLES :
2010 CAR : 00170 FUSION
2010 CAR : 00171 MILAN
2009 - 2010 TRUCK : 00130 ESCAPE
2009 - 2010 TRUCK : 00163 MARINER

OASIS MESSAGE :
SOME 2009 ESCAPE/MARINER/HYBRID AND 2010 FUSION/MILAN/HYBRID VEHICLES, EXCLUDING
THE 3.5L ENGINE, BUILT PRIOR TO 6/15/2009, MAY EXHIBIT A MALFUNCTION INDICATOR LIGHT(MIL) AND/OR LACKS POWER CONDITION WITH DIAGNOSTIC TROUBLE CODES P0122 AND/OR P0222. TO PROPERLY DIAGNOSE THIS CONDITION, PERFORM PC/ED PINPOINT TEST DV DIAGNOSTIC SUBROUTINE, INCLUDING CHECKING THE WIRING HARNESS CONNECTIONS FOR
PROPER SEATING. IF THE ROOT CAUSE IS UNDETERMINED, REPLACE THE ELECTRONIC THROTTLE BODY.

APPLICABLE SYMPTOM CODES :
P0122 DIAGNOSTIC TROUBLE CODE (DTC)
P0222 DIAGNOSTIC TROUBLE CODE (DTC)
698298 DRIVEABILITY MALFUNCTION INDICATOR LAMP - MIL
800000 GENERAL-PREDELIVERY RUNNING CHANGES
804000 PRE-DELIVERY

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Querio, Jennifer (J.)
Sent: Tuesday, August 11, 2009 11:22 AM
To: McDonagh, Scot (S.M.); Chacon, Jose (A.); Gudino Mendoza, Martin (J.M.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

Need confirmed good service stock clean date. QCN issue date is not same depot clean date. This concern will remain open for Escape/Mariner until depot audit confirmed complete. I'd prefer SSM replaced with TSB, at that point, as this is a final fix for supplier quality issue. We will be able to monitor future usage/containment with TSB unique labor code.

From: McDonagh, Scot (S.M.)
Sent: Monday, August 10, 2009 11:45 AM
To: Chacon, Jose (A.)

Cc: Gudino Mendoza, Martin (J.M.); Querio, Jennifer (J.)
Subject: RE: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

My pleasure

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Monday, August 10, 2009 11:08 AM
To: McDonagh, Scot (S.M.)
Cc: Gudino Mendoza, Martin (J.M.)
Subject: FW: QCN for Delphi Parts at FCSD - 2.5L Throttle Body Codes

Scot,

The QCN on Delphi's suspect 2.5L throttle bodies is completed. We are moving forward on closing this emerging concern for both RFR and RF R platforms. We are monitoring field reports, and see if any repeat repairs are evident in the near future. Thanks.

Thanks for you support on closing this Cross Commodity issue.

Regards,

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(313) 317-7047

From: Van Nortwick, Kelvin (K.L.)
Sent: Tuesday, August 04, 2009 11:07 AM
To: Bozynski, John (W.)
Cc: Langley, Scott (C.S.); Rosales, Martin; 'ruben.zuniga@delphi.com'; Chacon, Jose (A.)
Subject: QCN for Delphi Parts at FCSD

John,

Attached is a completed QCN Form from Delphi for the return of 190 pcs for review and testing at their facility.

<< File: QCN Request Form.xls >>

Delphi Team

Based on this QCN FCSD will issue QR's which the depots will follow for the return of the stock to your facility for review and inspection. Your team will need to provide dispositon on the QR's which is part of the D3 when they are issued. You will also need to provide me with documentation on the results / testing of the parts. The qty on the QR maybe potentially reduced based on how many your team finds defective.

Kelvin Van Nortwick
FCSD STA Quality Engineer
KVannort@Ford.com
Phone: 313-390-3863
Fax Number: 313-390-0448
Regent Court Building 3N115
16800 Executive Plaza Drive
Dearborn, Michigan 48126

From: Cardoso, Jesus (Chuy.)
Sent: Wednesday, January 13, 2010 9:57 AM
To: Langley, Scott (C.S.); Shapardanis, Michael (M.S.)
Cc: Tedone, Damian (D.J.); Trizon Dyck, Javier (J.T.)
Subject: FW: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

Scott/Mike, please request the ETB for the vehicle below and advise upon completion of your analysis if the failure is related to the Stop Ship issue we had. Thank you.

Report# :	AALDX010 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L39AR[redacted]			**Build Date:**	02/05/2009
Odometer :	13,526 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04352 Healey Ford Lincoln Mercury LL			**Phone#:**	(845) 291-1998
City:	Goshen	**State:**	New York	**Country :**	USA
Originator:	ROBERT CAPONE				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	P2135				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: ABOUGHAN **Phone:** 000 317-6308 **Regn Cd:** N1 New York

Engineering: **Phone:** **TAR:**

Dlr Contact: ROBERT CAPONE **Phone:** 845 291-1998 **Title Cde:** T

DTCs:
KOEO:

KOEC:P2135
KOER:

Comments :

REPAIR	01/12/2010 02:54PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE WEB FORM DATA - CONCERN: CHECK ENGINE LIGHT ON AND WRENCH LIGHT WHENT ON THEN OFF. DIAGNOSTICS: INSPECT CAR . PREFORMED PPTS DV1 TO DV28.NO PROBLEM FOUND AT THIS TIME. PARTS REPLACED:: NONE TECH QUESTION: ANY KNOWN CONCERNS OTHER THAN TSB 09-23-05. THE BUILD DATE IS 02/05/2009 PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE
RECOMM	**01/12/2010 02:54PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE** ROBERT, THE TSB LISTED DOES NOT APPLY TO THIS CONCERN SINCE THE VEHICLE IS OUTSIDE OF THE BUILD DATE. IF ALL CIRCUITS FROM THE ETB TO THE PCM ARE OK, REPLACE THE ETB AND RE-TEST

Regards,
Jesús Cardoso
CD3 HEV PVT/PMT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Tedone, Damian (D.J.)
Sent: Wednesday, January 13, 2010 7:13 AM
To: Gee, Tom (T.S.); Hayes, Dave (D.L.); Gauthier, Greg (G.E.); Treharne, David (W.D.); Cardoso, Jesus (Chuy.); Trizon Dyck, Javier (J.T.); Hinderer, Michael (M.); Childress, Terry (T.W.); Kapadia, Jimmy (J.H.); Pierce, Warren (W.B.); Taylor, Perry (P.A.)
Subject: RE: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

AALDT001 & AALBJ007 & AALBB004: All have P1A0C and all possible CPV stuck open. Jimmy/Terry if the trend is growing we need to push fuel systems for a containment and solution. Can we have them come into an FQR and let the managers push?

AALDX010: Perry/Javier Throttle Body P1235 outside the containment dates but I suspect could be same issue. Can we forward this repair to that stop ship team for further investigation (maybe open up the dates on the TSB)?

Have a Blessed Day

Damian Tedone

HEV Controls Applications & Torque Monitor Supv.
Integrated Six Sigma Master Black Belt
Advance Engineering Center Cube 3520 MD-49
2400 Village Road Dearborn, MI 48124
Ford Motor Company dtedone@ford.com <mailto:dtedone@ford.com>
☎PHONE 313-594-7606

From: Gee, Tom (T.S.)
Sent: Wednesday, January 13, 2010 7:00 AM
To: Hayes, Dave (D.L.)
Cc: Gauthier, Greg (G.E.); Tedone, Damian (D.J.); Treharne, David (W.D.)
Subject: FW: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

AALDT001 - P1A0C Please get with Hotline/Dealer. Have Dealer check VMV.

Thomas S. Gee

Manager, Controls and Strategy Implementation
SMT & Hybrid Technologies
Ford Motor Company
Phone: (313) 805-2978, Fax: (313) 317-4551
AEC 3515 MD49

From: BBRADCOS [mailto:BBRADCOS]
Sent: Wednesday, January 13, 2010 4:46 AM

To: TGEE
Subject: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

This email contains 9 report summary(s).

Attachments : 0

Report# :	AALBJ008 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L37AR[redacted]			**Build Date:**	10/12/2009
Odometer :	2,970 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 05892 Woody Anderson Ford			**Phone#:**	(256) 517-1354
City:	Huntsville	**State:**	Alabama	**Country :**	USA
Originator:	TERRY LAW				
Symptom:	6 22 1 53 DRVABL,FUEL ECONOMY,COMPLAINT MODE ,ALL CONDITIONS				
Status:					
VFG:	V46 GOOD FUEL ECONOMY				
Additional Symptom:	FUEL ECONOMY CONCERN				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: RJANOVIC **Phone:** 000 317-6306 **Regn Cd:** S1 Atlanta

Engineering: **Phone:** **TAR:**

Dlr Contact: TERRY LAW **Phone:** 256 517-1354 **Title Cde:** T

DTCs:
KOEO:
KOEC:
KOER:

Comments :
REPAIR 01/12/2010 11:07AM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE

WEB FORM DATA - CONCERN: C/S SHOWS TO ONLY GETTING 30 MPG, ENGINE WORKING BELOW 47 MPH INSTEAD OF ELE HYBRID, NOT GETTING GOOD MPG/ EV DOESNT WORK..... THIS IS THE WRITE UP FROM CUSTOMER DIAGNOSTICS: VERIFY MPG, ROAD TEST ENGINE COMES ON AT 32 MPH WITH VERY SLIGHT OR NO THROTTLE PRESSURE PARTS REPLACED:: NA TECH QUESTION: SEEKING INFORMATION ON HOW SYSTEM WORKS, HYBRID VEHIICLE COMPONENTS AND OPERATION STATES SHOULD GO TO 47 MPH BEFORE ENGINE IS ENGUAGED PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE.
NONE

RECOMM **01/12/2010 11:07AM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE**
TERRY, TO GET A FULL OVERVIEW OF HOW THIS VEHICLE WORKS RECOMMEND TO REVIEW THE OWNERS MANUAL THE FIRST 10 PAGES OR SO. FOR CONCERNS WITH FUEL ECONOMY RECOMMEND TO SET THE INSTRUMENT CLUSTER TO THE EMPOWER MODE, ONCE IN THIS MODE YOU WILL BE ABLE TO MONITOR THE EV THRESHOLD GAUGE AND THE ACCESSORY POWER GAUGE. AMBIENT TEMPERATURE, CUSTOMER HAVING EXCESSIVE ACCESSORIES ON, DRIVING HABITS AND CLIMATE CONTROL SELECTION CAN EFFECT THE FUEL ECONOMY OF THIS VEHICLE. RECOMMEND TO REFERENCE WEBSITE WWW.FUELECONOMY.GOV TO VERIFY WHAT OTHER PEOPLE ARE GETTING FOR FUEL ECONOMY ON THIS VEHICLE. ALSO RECOMMEND TO PERFORM A FUEL ECONOMY TEST USING THE IDS.

REPAIR **01/12/2010 03:27PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE**
TECHNICIAN REPLY: CUSTOMER IS SURE SOMETHING IS WRONG SO I RAN DIAG WITH IDS ALL SYSTEMS PASS, NO CODES IN ANY MODULE, WHAT CAN I TELL MY CUSTOMER, I ROAD TESTED THE VEHICLE WITH IDS HOOKED UP AND GOT 32.8 MPG IN 10 MILES DRIVING IN BOTH STOP AND GO AND CRUISE SPEEDS, MPG WENT UP WHEN CRUISE CONTROL WAS ON MPH

RECOMM **01/12/2010 03:27PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE**
TERRY, IF THERE ARE NO DTC'S PRESENT IN AN ON DEMAND SELF TEST OF THE MODULES, SUSPECT VEHICLE IS OPERATING AS DESIGNED. VERIFY EV OPERATION WITH THE CLUSTER IN EMPOWER MODE. PLEASE CONTACT THE HOTLINE BY PHONE TO DISCUSS THIS CONCERN.

Attachments : 0

Report# :	AALDX010 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L39AR[redacted]			**Build Date:**	02/05/2009
Odometer :	13,526 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04352 Healey Ford Lincoln Mercury LL			**Phone#:**	(845) 291-1998
City:	Goshen	**State:**	New York	**Country :**	USA
Originator:	ROBERT CAPONE				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	P2135				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: ABOUGHAN **Phone:** 000 317-6308 **Regn Cd:** N1 New York

Engineering: **Phone:** **TAR:**

Dlr Contact: ROBERT CAPONE **Phone:** 845 291-1998 **Title Cde:** T

DTCs:
KOEO:
KOEC:P2135
KOER:

Comments :

REPAIR 01/12/2010 02:54PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CHECK ENGINE LIGHT ON AND WRENCH LIGHT WHENT

ON THEN OFF. DIAGNOSTICS: INSPECT CAR . PREFORMED PPTS DV1 TO DV28.NO PROBLEM FOUND AT THIS TIME. PARTS REPLACED:: NONE TECH QUESTION: ANY KNOWN CONCERNS OTHER THAN TSB 09-23-05. THE BUILD DATE IS 02/05/2009 PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE

RECOMM **01/12/2010 02:54PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE**
ROBERT, THE TSB LISTED DOES NOT APPLY TO THIS CONCERN SINCE THE VEHICLE IS OUTSIDE OF THE BUILD DATE. IF ALL CIRCUITS FROM THE ETB TO THE PCM ARE OK, REPLACE THE ETB AND RE-TEST.

Attachments : 0

Report# :	AALBJ007 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L36AR[redacted]			**Build Date:**	09/17/2009
Odometer :	1,240 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 10518 Highland Park Ford Lincoln Mer			**Phone#:**	(847) 831-5880
City:	Highland Park	**State:**	Illinois	**Country :**	USA
Originator:	MARK BERNSTEIN				
Symptom:	6 30 8 10 DRVABL,EV/HYBRID,INDICATOR,WRENCH/MIL				
Status:					
VFG:	V44 POWERTRAIN MALFUNCTION				
Additional Symptom:	PULL OVER SAFELY LIGHT				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: RJANOVIC **Phone:** 000 317-6306 **Regn Cd:** G1 Chicago

Engineering: **Phone:** **TAR:**

Dlr Contact: MARK BERNSTEIN **Phone:** 847 831-5880 **Title Cde:** T

DTCs:

KOEO:

KOEC:P0AFA P1A0C P1A14 P0562 P1A0A

KOER:

Comments :

REPAIR	01/12/2010 10:55AM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE WEB FORM DATA - CONCERN: CUSTOMER STATES THE PULL OVER AND STOP SAFELY WARNING MESSAGE CAME ON. CUSTOMER STOPPED TURNED THE KEY OFF AND RESTARTED AND WARNING WENT AWAY. DIAGNOSTICS: SELF TEST ALL MODULES CHECK OASIS CONTACT HOTLINE. I RECEIVED CODES POAFA:16-28 ACCM. P1AOC:00-28 PCM. P1A14:00-28 PCM. P0562:04-02 TCM. P1A0A:13-28 TCM. PARTS REPLACED:: NONE TECH QUESTION: I AM NOT VERY FAMILIAR WITH THE FUSION HYBRID ARE THESE CODES COMMON? ARE THERE ANY KNOWNS? PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE
RECOMM	**01/12/2010 10:55AM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE** MARK, WITH THE INFORMATION PROVIDED THE MOST IMPORTANT CODE OUT OF THE LIST OF CODES THAT YOU HAVE IS THE P1A0A. RECOMMEND TO REFERECNE THE PCED SELECT TCM DTC CHART AND PERFORM PIN POINT TEST TR FOR DTC P1A0A.
REPAIR	**01/12/2010 03:03PM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE** TECHNICIAN REPLY: FOLLOWED PIN POINT TESTTR. I GOT TO TR15 THE TEST LED ME TO NO CONCERN FOUND AT THIS TIME. IS THERE ANY MORE INFORMATION ON THIS CONCERN OR SHOULD I RELEASE THE VEHICLE AT THIS TIME AS AN NPF
RECOMM	**01/12/2010 03:03PM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE** MARK, RECOMMEND TO CHECK THE PIN FIT ON THE TRANSMISSION CONNECTOR, THERE HAVE BEEN A COUPLE CASES FOR LOOSE PINS ON THE TRANSMISION CONNECTOR. IF TRANS CONNECTOR CHECKS GOOD RECOMMEND TO DRIVE THE

VEHICLE MINIMUM OF 30 MILES TO SEE IF THE CODES RETURN. IF NO CODES RETURN RECOMMEND TO RETURN THE VEHICLE TO THE CUSTOMER.

Attachments : 0

Report# :	AALBB004 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,MILAN,HYBRID ,SEDAN ,3MEDM0L36AR[redacted]			**Build Date:**	07/22/2009
Odometer :	4,764 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 10011 Varsity Lincoln-Mercury, Inc.			**Phone#:**	(248) 305-5400
City:	Novi	**State:**	Michigan	**Country :**	USA
Originator:	JIM HARTMAN				
Symptom:	6 30 8 10 DRVABL,EV/HYBRID,INDICATOR,WRENCH/MIL				
Status:					
VFG:	V44 POWERTRAIN MALFUNCTION				
Additional Symptom:	CEL				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: MHINDERE **Phone:** 313 337-9292 **Regn Cd:** G2 Detroit

Engineering: **Phone:** **TAR:**

Dlr Contact: JIM HARTMAN **Phone:** 248 305-5300 **Title Cde:** T

DTCs:
KOEO:
KOEC:P1A0C
KOER:

Comments :

REPAIR 01/12/2010 09:09AM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CUST STATES ENGINE CUT OFF AND THERE WAS NO RESPONSE TO THROTTLE EITHER ELECTRIC OR GAS ENGINE. DIAGNOSTICS: PERF SELF TEST, DCL DATALOGGER, CHECKED AIR INTAKE SYSTEM AND EVAP SYSTEM INTEGRITY. PERF PPT FOR DTC P1A0C PER PCED. PARTS REPLACED:: NONE TECH QUESTION: LOOKING FOR KNOWNS. ONLY DTC RECIEVED WAS P1A0C. PERF PPT AND TEST DROVE VEH UNABLE TO DUPLICATE OR VERIFY CONCERN. PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE

RECOMM 01/12/2010 09:09AM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
JAMES, A NORMAL GAS ENGINE DRIVABILITY CONCERN THAT WILL NOT SET A DTC WILL CAUSE DTC P1A0C ON A HYBRID. RECOMMEND INSPECTING FUEL QUALITY. VERIFY ALL INTAKE CONNECTIONS ARE TIGHT AND THERE IS NO CONTAMINATION ON THE MAF. THERE ARE SOME PAST REPORTS INVOLVING EARLY BUILD HYBRID FUSIONS WHERE THE VMV (VAPOR MANAGEMENT VALVE), WHICH IS NORMALLY CLOSED, STICKS OPEN CAUSING A LEAN CONDITION. RECOMMEND REMOVING AND INSPECTING THE VMV AND VERIFYING OPERATION USING THE SMOKE MACHINE.

REPAIR 01/12/2010 02:12PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
TECHNICIAN REPLY: THANKS FOR YOUR RESPONSE. I CHECKED INTAKE CONNECTIONS,& FUEL QUALITY. PERFORMED SMOKE TEST ON EVAP SYSTEM. REMOVED AND INSPECTED VMV ALL ARE OK. IVE DRIVIN VEHICLE SEVERAL TIMES AND AM UNABLE TO RECREATE THE CUSTOMERS CONCERN. I RESET KAM DROVE VEH AND RETRUNED TO CUSTOMER.

RECOMM 01/12/2010 02:12PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
JAMES, YOU ARE WELCOME! IF THE VEHICLE RETURNS WITH THE SAME CONCERN, RECOMMEND REPLACING THE VMV.

Attachments : 0

Report# :	AALCK006 RTDAHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L37AR[redacted]			**Build Date:**	11/27/2009
Odometer :	3 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 20402 Jim Click Ford, Lincoln-Mercur			**Phone#:**	(520) 570-7306
City:	Tucson	**State:**	Arizona	**Country :**	USA
Originator:	MARC CRAWFORD				
Symptom:	2 06 2 20 ELECT.,WARNING SYS.,REV SENSING,INACCURATE				
Status:					
VFG:	V17 ELECTRICAL ASSESSORIES				
Additional Symptom:	P03BV INACCURATE ALARM				
Fix:	**Causal Component :**		SENSOR - PARKING AID SYSTEM -- RPL		
Condition Code:					

Region Code: W3 **Region Name:** Phoenix

DTCs:
KOEO:
KOEC:
KOER:

Comments :

REPAIR 01/12/2010 11:48AM PETE REGITS MSS - TSO - DIGITAL IMAGE RTDA
CUST REPORTS INACCURATE PARKING AID ALARM. TECH VERIFIED THIS CONCERN PERFORMED SELF TEST REPORTS NO CODES. TECH REPORTS ERRATIC PID READING FROM REAR CENTER SENSOR. TECH REPORTS NO CONCERNS WITH HARNESS CONNECTORS SENSOR IS CLEAN NO WATER INSIDE SENSOR NO DAMAGE. TECH IS A NEW VEHICLE SALE REQUESTING APPROVAL ON CENTER SENSOR REPLACEMENT.

RECOMM **01/12/2010 11:48AM PETE REGITS MSS - TSO - DIGITAL IMAGE RTDA**
REVIEWED. GAVE APPROVAL CODE P03BV ON CENTER PARKING AID SENSOR REPLACEMENT.

Attachments : 0

Report# :	AALDG022 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L32AR[redacted]			**Build Date:**	03/11/2009
Odometer :	7,251 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 06081 San Francisco Ford Lincoln Mer			**Phone#:**	(415) 861-6000
City:	San Francisco	**State:**	California	**Country :**	USA
Originator:	TIM TANTON				
Symptom:	7 02 2 55 UKN SRC ,UNSPEC. NOISE ,REAR EXTERIOR,BRAKE APPL.				
Status:					
VFG:	V39 SQUEAKS & RATTLES				
Additional Symptom:	REAR BRAKE NOISE				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: MYOUN163 **Phone:** 313 317-7041 **Regn Cd:** W2 San Francisco

Engineering: **Phone:** **TAR:**

Dlr Contact: TIM TANTON **Phone:** 415 553-4400 **Title Cde:** T

DTCs:
KOEO:
KOEC:
KOER:

Comments :

REPAIR 01/12/2010 05:53PM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: NOISE FROM REAR BRAKES DIAGNOSTICS: ROAD TEST PARTS REPLACED:: NONE TECH QUESTION: OASIS RAN NOTHING FOR THIS CONCERN I HAVE HEARD OTHER SIMILAR COMPLAINTS OF REAR BRAKE NOISE INSPECTED ROTORS AND PADS SOME SIGNS OF METAL TRANSFER ARE YOU AWARE OF ANY REAR BRAKE CONCERNS AND WHAT IS YOUR RECOMENDATION ? WERE YOU ABLE TO VERIFY THE CONCERN? YES AT WHAT SPEED DOES THIS OCCUR? FREEWAY AND SLOWER SPEEDS AT WHAT RPM DOES THIS OCCUR? ALL

RECOMM **01/12/2010 05:53PM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE**
TIM, PER VEHICLE OWNER GUIDE THIRD PRINTING PAGE 205, OCCASIONAL BRAKE NOISE IS NORMAL. ALSO, PLEASE NOTE THAT PER THE NVH SYMPTOM CHART IN ONLINE WORKSHOP MANUAL SECTION 206-00, SQUEALING NOISE THAT OCCURS ON FIRST (MORNING) BRAKE APPLICATION IS AN ACCEPTABLE CONDITION CAUSED BY HUMIDITY AND LOW BRAKE PAD TEMPERATURE. IF THE CONCERN IS PRESENT AT ALL TIMES, RECOMMEND YOU INSPECT FOR COMPONENTS CONTACTING THE BRAKE ROTORS AND CAUSING THIS NOISE. INSPECT FOR PROPER INSTALLATION OF ALL BRAKE COMPONENTS. IF NO VISUAL CONCERNS ARE NOTED, RECOMMEND YOU DIAGNOSE AND SERVICE BRAKE NOISE CONCERN USING SYMPTOM CHART REFERENCED ABOVE.

Attachments : 0

Report# :	AALA6022 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L35AR[redacted]			**Build Date:**	04/02/2009
Odometer :	8,822 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES

Dealer:	CAN B6205 RODEO FORD SALES LIMITED			**Phone#:**	(403) 529-2777
City:	Medicine Hat	**Province**	Alberta	**Country :**	CAN
Originator:	MIKE PACHAN				
Symptom:	2 07 5 02 ELECT.,ENTERTAINMENT ,SYNC OPERATION ,PHONE BLUETOOTH				
Status:					
VFG:	V81 ENTERTAINMENT & COMMUNICATION				
Additional Symptom:	LOW MICROPHONE VOLUME				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: TFUMEROL **Phone:** 000 317-9383 **Regn Cd:** 06 06 FCSD REGION-CANADA

Engineering: **Phone:** **TAR:**

Dlr Contact: MIKE PACHAN **Phone:** 403 529-2777 **Title Cde:** T

DTCs:

KOEO:

KOEC:

KOER:

Comments :

REPAIR 01/12/2010 01:22PM TOM FUMEROLA MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: WHEN MAKING PHONE CALLS FROM VEHICLE WITH SYNC, VOLUME AT OTHER END IS LOW. PEOPLE CUSTOMER ARE TALKING TO HAVE A HARD TIME HEARING CUSTOMER. DIAGNOSTICS: CHECK OASIS, NO MESSAGES APPLY. CHECK CODES, PASS PARTS REPLACED:: NONE TECH QUESTION: LOOKING FOR KNOWN CONCERNS BRAND NAME AND MODEL # OF DEVICE (CELL PHONE, MP3 PLAYER ETC) BLACKBERRY FOR APIM SOFTWARE PROGRAMMING DIFFICULTIES, HAVE YOU FOLLOWED THE ONLINE PTS JOB AID OR TSB 08-21-02? NOT AT THIS TIME, NO CUSTOMER INTERFACE PROCESSOR (CIP)
AND VEHICLE INTERFACE PROCESSOR (VIP) SOFTWARE VERSION LEVELS: CIP, 9L2T-14D544-BD. VIP, 9L2T-14D205-AF

RECOMM **01/12/2010 01:22PM TOM FUMEROLA MSS - FCSD - TECH SVC HOTLINE**
MIKE, MAKE A CALL USING THE CUSTOMER'S PHONE AND USING YOUR OWN PHONE AND SEE IF THERE IS A DIFFERENCE. THIS WILL HELP DETERMINE IF IT IS A PHONE ISSUE OR A SYNC ISSUE. MAKE SURE THE CUSTOMER DOES NOT HAVE THE REAR VIEW MIRROR UPSIDE DOWN WHICH WOULD CAUSE THE MICROPHONE TO BE IN THE WRONG LOCATION. YOU CAN PERFORM A MICROPHONE TEST BY DOING THE SPEAKER WALKAROUND TEST FROM THE NAV UNIT BEZEL, CANCELLING IT, THEN DOING THE MIC TEST.

Attachments : 0

Report# :	AALDT001 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L37AR[redacted]			**Build Date:**	03/26/2009
Odometer :	8,145 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 00601 West-Herr Ford, Inc.			**Phone#:**	(716) 649-5701
City:	Hamburg	**State:**	New York	**Country :**	USA
Originator:	GUNTER HOFSTETTER				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	STOP CAR SAFELY IN IC				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: JSHEKLET **Phone:** 313 317-7052 **Regn Cd:** G4 Pittsburgh

Engineering: **Phone:** **TAR:**

Dlr Contact: GUNTER HOFSTETTER **Phone:** 716 649-5701 **Title Cde:** T

DTCs:

KOEO:C0063 C1B00 P1A0C P0685

KOEC:

KOER:

Comments :

REPAIR 01/12/2010 01:59PM JAMES SHEKLETON MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: WHILE DRIVING AT 40MPH WITH CRUISE ON A LIGHT CAME ON THAT SAID STOP CAR SAFELY, WHEN LIGHT WAS ON CAR HAD NO POWER. AFTER CAR WAS TURNED OFF AND RESTARTED ALL WAS OK. DIAGNOSTICS: RETRIEVED DTC C0063-64-68 ABS C1B00-64-68 PSCM P1A0C-00-28 FROM PCM. ALSO RETRIEVED P0685 AFTER PULLING CODES WITH IDS. CHECKED GROUNDS FOR ABS,PCM AND PSCM, OK. PCM CODE IS ONLY INFO CODE. NONE OF THE CODES ARE HARD FAULTS. ROAD TESTED, ALL SEEMED OK. PARTS REPLACED:: NO PARTS REPLACED TECH QUESTION: HOPING FOR DIRECTION. CANTRECREATE PROBLEM. TRIED DIAGNOSING PSCM CODE BUT INTERACTIVE DIAG NOT WORKING. PPT FOR C1B00 ASKS IF 2F OR 62 TO CONTINUE. I HAVE 64, WHATS UP WITH THAT. THE PCM CODE IS INFORMATIONAL NO OTHER PCM CODES. IS THE PCM CODE RELATED TO THE ABS OR STEERING CODES? FROM WHAT I CN TELL IT LOOKS LIKE THE PSCM CODE COULD CAUSE THE ABS CODE, BUT WOULD IT SET THE PCM CODE? PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE

RECOMM **01/12/2010 01:59PM JAMES SHEKLETON MSS - FCSD - TECH SVC HOTLINE**
GUNTER, THE IC MESSAGE: STOP CAR SAFELY WAS INDUCED FROM THE P CODES. THE C CODES THAT WERE FOUND IN THE ABS MODULE. THE INTERACTIVE DIAGNOSTICS WILL ASSIST IN DIAG WHEN THE CODES ARE IN THE PSCM. THE ABS MODULE RECEIVES NETWORK INFORMATION FROM THE PSCM (STEERING POSITION) AND RCM (YAW RATE, LATERAL ACCEL, AND LONGITUDINAL ACCEL). IF THE STEERING POSITION AND YAW DON'T INDICATE COMPARABLE VEHICLE POSITION, THE C0063:64 AND C1B00:64 WILL SET IN THE ABS MODULE. IF

THERE WERE A CONCERN RELATED TO THE EPAS SYSTEM, THERE WOULD BE CODES IN THE PSCM. THE INTERACTIVE DIAG THAT YOU'VE PERFORMED SHOWS NO DTC IN THE PSCM. ADDRESS THE P CODES FOR THE IC MESSAGE AND THE LOSS OF VEHICLE POWER. REFER TO THE DTC CHART IN THE PC/ED FOR THE P0685 FIRST. BATTERY VOLTAGE TOO HIGH/LOW CAUSES MODULE TO SHUT DOWN FOR PROTECTION. VERIFY THE SYSTEM VOLTAGE WHEN THE CONCERN IS PRESENT. LOAD TEST ALL OF THE PCM POWER AND GROUNDS AND VERIFY TIGHT PIN FIT.

Attachments : 0

Report# :	AALBJ009 NHL			**Received:**	01/12/2010
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L32AR[redacted]			**Build Date:**	04/24/2009
Odometer :	9,200 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 09293 Mills Ford of Willmar			**Phone#:**	(320) 235-0654
City:	Willmar	**State:**	Minnesota	**Country :**	USA
Originator:	DEAN RASMUSSON				
Symptom:	6 30 8 99 DRVABL,EV/HYBRID,INDICATOR,NOT LISTED				
Status:					
VFG:	V44 POWERTRAIN MALFUNCTION				
Additional Symptom:	TRACTION CONTROL LIGHT/NO CODE				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: RJANOVIC **Phone:** 000 317-6306 **Regn Cd:** G5 Twin Cities

Engineering: **Phone:** **TAR:**

Dlr Contact: DEAN RASMUSSON **Phone:** 320 235-0654 **Title Cde:** T

DTCs:
KOEO:
KOEC:
KOER:

Comments :

REPAIR	01/12/2010 11:20AM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE WEB FORM DATA - CONCERN: TRACTION LIGHT ON IN PARK,OFF IN DRIVE & REVERSE. DIAGNOSTICS: IDS PARTS REPLACED:: NONE TECH QUESTION: ANY KNOWN CONCERNS PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE.
RECOMM	**01/12/2010 11:20AM RICHARD JANOVICH MSS - FCSD - TECH SVC HOTLINE** DEAN, IF THERE IS A TRACTION CONTROL LIGHT ON THERE SHOULD BE A CODE, RECOMMEND TO PERFORM AN ON-DEMAND SELF TEST OF ALL MODULES LOOKING FOR CONTINOUS DTCS. IT SHOWS THE TRACTION CONTROL LIGHTS ARE ON THE LEFT HAND SIDE OF THE CLUSTER AND THERE IS 2 OF THEM. PLEASE ADVISE WHICH TRACTION CONTROL LIGHT IS LIT UP.

From: Chabon, Michael (W.)
Sent: Tuesday, October 06, 2009 1:26 PM
To: Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.)
Subject: FW: PWB Via Hole Timing Illustration
Attachments: Thermal Cycle Screening Test 09SE09.xls; RE: Throttle Body claims for RFR PWB Via Hole Timing_091006 Dan O'Neill Input.xls

Michael W. Chabon
Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: O'Neill, Daniel P [mailto:daniel.p.o.neill@delphi.com]
Sent: Tuesday, October 06, 2009 12:05 PM
To: Langley, Scott (C.S.)
Cc: Chabon, Michael (W.); Banna, Jim ; Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: PWB Via Hole Timing Illustration

I have added what I know and highlighted the fields in red. I do not know the percent of parts screened at Igarashi. The information below is the background for my input.

The info below gives how many total pieces at Cipsa, Avalon, Igarashi and Delphi of the suspected lots.

The attached gives the total number of screened parts at Delphi (41,147). This is the total of TPS Screened (13,148+31=13,179) and TPS reworked (27,854+114=27,968).

The attached also gives the date that the breakpoint parts (parts with Cipsa PCA were screened) – 3rd shift August 23rd. The file was last updated on Sept 9th. There has been no additional information for the suspect parts (they were exhausted) but the PCA screened parts has changed. I also attached an email from Martin Rosales to Mike Chabon et al. It states as of Monday October 5th, 30,240 PCA parts were screened at Delphi with incident and 2000 were screened at Igarahsi without incident

CIPSA Suspect Lots: 103,740 pieces total

0823 : 30,500 Avalon Built date June 11 thru July 11 and Aug 01, Aug 04 and Aug 06

0826 : 73,240 Avalon built date July 13 thru Aug 14 (exception Aug 1, Aug 4 and Aug 6)

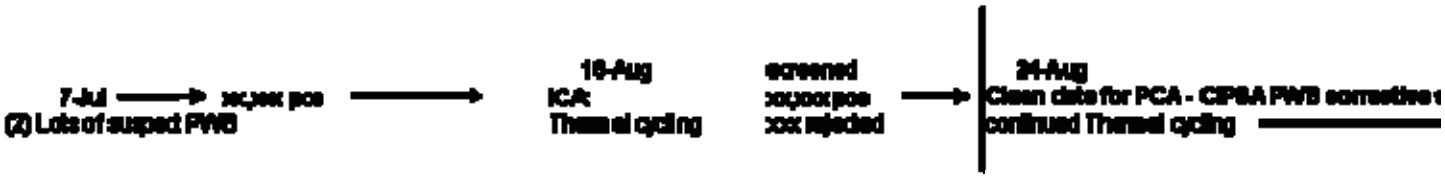
Avalon invoiced and dispatched to Igarashi = 93888 nos

Igarashi invoiced and dispatched to Delphi = 91080 nos.

Igarashi built dates using suspect lots
182 thru 228 (Julian date)

(Igarashi rejections and quarantined qty held = 2808 nos)

ETB build timing



Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623
Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: Langley, Scott (C.S.) [mailto:slangle1@ford.com]
Sent: Monday, October 05, 2009 4:33 PM
To: Chabon, Michael (W.); O'Neill, Daniel P
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: PWB Via Hole Timing Illustration

Mike,

Here's a start at a timeline to document what happened where and when.
As we discussed, it's important to be exact on some items, less important on others.

But, this should paint the proper visual and help guide the expectations.
We can discuss more tomorrow. I'll help as much as possible.

Dan,
Could you help us fill in the pieces around the ETB timing?

<<PWB Via Hole Timing_091005.xls>>

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

THERMAL CYCLE SCREENING TEST
Ford PN 9L8E-9F991-BC / Delphi PN 28098939

Last Update: 9-Sep-09

		TPS Suspect lot only			ETB Reworked			TPS Breakpoint		
Date	Shift	Good Parts	Rejected parts	PPM's	Good Parts	Rejected parts	PPM's	Good Parts	Rejected parts	PPM's
17-Aug-09	2	911	1	1096						
17-Aug-09	3	1152	4	3460						
18-Aug-09	1	1127	2	1771						
18-Aug-09	2	502	2	3968						
18-Aug-09	3	1362	3	2198						
19-Aug-09	1	931	0	0						
19-Aug-09	2	0	0	0						
19-Aug-09	3	1290	6	4630						
20-Aug-09	1	1559	3	1921	672	8	11765			
20-Aug-09	2	1005	3	2976	652	3	4580			
20-Aug-09	3	504	4	7874	448	5	11038			
21-Aug-09	1	1512	2	1321	224	0	0			
21-Aug-09	2	0	0	0	1119	1	893			
21-Aug-09	3	0	0	0	892	4	4464			
22-Aug-09	1	0	0	0	0	0	0			
22-Aug-09	2	576	0	0	895	1	1116			
22-Aug-09	3	0	0	0	0	0	0			
23-Aug-09	1	141	1	7042	896	2	2227			
23-Aug-09	2	0	0	0	1792	2	1115			
23-Aug-09	3	0	0	0	896	5	5549	504	0	0
24-Aug-09	1	576	0	0	0	0	0	0	0	0
24-Aug-09	2	0	0	0	671	1	1488	864	0	0
24-Aug-09	3	0	0	0	0	0	0	0	0	0
25-Aug-09	1	0	0	0	0	0	0	0	0	0
25-Aug-09	2	0	0	0	0	0	0	1080	0	0
25-Aug-09	3	0	0	0	896	0	0	360	0	0
26-Aug-09	1	0	0	0	0	0	0	0	0	0
26-Aug-09	2	0	0	0	1270	6	4702	0	0	0
26-Aug-09	3	0	0	0	444	4	8929	0	0	0
27-Aug-09	1	0	0	0	1328	8	5988	0	0	0
27-Aug-09	2	0	0	0	1338	6	4464	0	0	0
27-Aug-09	3	0	0	0	800	6	7444	216	0	0
28-Aug-09	1	0	0	0	0	0	0	1027	0	0
28-Aug-09	2	0	0	0	894	2	2232	0	0	0
28-Aug-09	3	0	0	0	448	0	0	0	0	0
29-Aug-09	1	0	0	0	845	3	3538	561	0	0
29-Aug-09	2	0	0	0	442	10	22124	0	0	0
29-Aug-09	3	0	0	0	0	0	0	0	0	0
30-Aug-09	1	0	0	0	896	5	5549	561	0	0
30-Aug-09	2	0	0	0	2123	5	2350	288	0	0
30-Aug-09	3	0	0	0	896	1	1115	0	0	0
31-Aug-09	1	0	0	0	0	0	0	0	0	0
31-Aug-09	2	0	0	0	2010	6	2976	0	0	0
31-Aug-09	3	0	0	0	446	2	4464	1020	0	0
1-Sep-09	1	0	0	0	224	0	0	0	0	0
1-Sep-09	2	0	0	0	447	1	2232	0	0	0
1-Sep-09	3	0	0	0	0	0	0	0	0	0
2-Sep-09	1	0	0	0	0	0	0	0	0	0
2-Sep-09	2	0	0	0	144	0	0	288	0	0
2-Sep-09	3	0	0	0	0	0	0	635	0	0
3-Sep-09	1	0	0	0	0	0	0	0	0	0
3-Sep-09	2	0	0	0	0	0	0	1008	0	0
3-Sep-09	3	0	0	0	0	0	0	0	0	0
4-Sep-09	1	0	0	0	0	0	0	0	0	0
4-Sep-09	2	0	0	0	0	0	0	1008	0	0
4-Sep-09	3	0	0	0	1344	6	4444	0	0	0
5-Sep-09	1	0	0	0	690	0	0	0	0	0
5-Sep-09	2	0	0	0	0	0	0	0	0	0
5-Sep-09	3	0	0	0	0	0	0	0	0	0
6-Sep-09	1	0	0	0	772	11	14049	0	0	0
6-Sep-09	2	0	0	0	0	0	0	0	0	0
6-Sep-09	3	0	0	0	0	0	0	0	0	0
7-Sep-09	1	0	0	0	0	0	0	0	0	0
7-Sep-09	2	0	0	0	0	0	0	0	0	0
7-Sep-09	3	0	0	0	0	0	0	0	0	0
8-Sep-09	1	0	0	0	0	0	0	0	0	0
8-Sep-09	2	0	0	0	0	0	0	0	0	0
8-Sep-09	3	0	0	0	0	0	0	0	0	0
9-Sep-09	1	0	0	0	0	0	0	0	0	0
9-Sep-09	2	0	0	0	0	0	0	0	0	0
9-Sep-09	3	0	0	0	0	0	0	0	0	0
10-Sep-09	1									
10-Sep-09	2									
10-Sep-09	3									
11-Sep-09	1									
11-Sep-09	2									
11-Sep-09	3									
TOTALS		13148	31	2352	27854	114	4076	9420	0	0

From: Rosales, Martin <martin.rosales@delphi.com>
Sent: Monday, October 05, 2009 1:48 PM
To: Chabon, Michael (W.); Contreras, Claudia Judith; Salvador, Nicte ; Perez, Radamex
Cc: Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Langley, Scott (C.S.); Godoy, Arquimedes ; O'Neill, Daniel P
Subject: RE: Throttle Body claims for RFR

Michael: as of today, Delphi has been inspected approx 30,240 pcs plus 2,000 at Igarashi with zero defects.

regards

Martin Rosales
Delphi Powertrain- Juarez
Quality/SQE Superintendent
mobile phone 52-1-656-311-4909
office phone (Mex) 656-649-2833
(USA) 915-612-2833
email:martin.rosales@delphi.com
VME node 5216442833

From: Chabon, Michael (W.) [mailto:mchabon@ford.com]
Sent: Monday, October 05, 2009 11:33 AM
To: Contreras, Claudia Judith; Salvador, Nicte ; Perez, Radamex
Cc: Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Langley, Scott (C.S.); Godoy, Arquimedes ; O'Neill, Daniel P; Rosales, Martin
Subject: RE: Throttle Body claims for RFR

Fantastic, thanks for the quick updates, we want to make sure we are very careful in our binning process and do not send the wrong message to our team.

Rademex/team, can you please give us an update on the quantity of new CIPSA boards which have been built and how many have been screened without failure ?

Michael W. Chabon
Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Contreras, Claudia Judith [mailto:Claudia.Judith.Contreras@delphi.com]
Sent: Monday, October 05, 2009 1:26 PM
To: Salvador, Nicte ; Chabon, Michael (W.)
Cc: Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Langley, Scott (C.S.); Godoy, Arquimedes ; Perez, Radamex
Subject: RE: Throttle Body claims for RFR

Michael

The part KD11978 has high resistance on TP2 trace (0.895 Mohms directly on PCB land). We will send these part to cross section analysis to confirm the defect.
For these part we measured the resistance on the connector and directly on PCB land directly.

From: Salvador, Nicte
Sent: Monday, October 05, 2009 10:55 AM
To: Chabon, Michael (W.)
Cc: Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Langley, Scott (C.S.); Godoy, Arquimedes ; Contreras, Claudia Judith; Perez, Radamex
Subject: RE: Throttle Body claims for RFR

Mike,

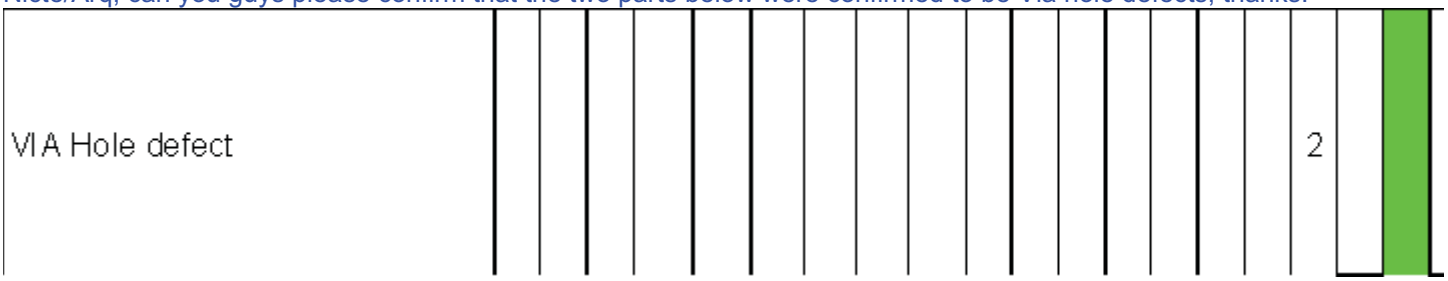
Part KD11978 was not received at MTC. Claudia, please reply to Mike with the status of this part.
Part AR180876 was submitted to cross sectional analysis after we found Vref_A trace in PCB with high resistance (in order of KOhms). Material's lab will confirm via defect by looking at the copper wall, results will be ready by tomorrow.

FYI, we measure the resistance on PCB land directly not on the connector side, this way we discard solder joints.

Regards,
Nicte Salvador
(915) 6128103

From: Chabon, Michael (W.) [mailto:mchabon@ford.com]
Sent: Monday, October 05, 2009 9:55 AM
To: Salvador, Nicte ; Godoy, Arquimedes
Cc: Chabon, Michael (W.); Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Langley, Scott (C.S.)
Subject: RE: Throttle Body claims for RFR

Nicte/Arq, can you guys please confirm that the two parts below were confirmed to be Via hole defects, thanks.



Michael W. Chabon
Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Chabon, Michael (W.)
Sent: Wednesday, September 30, 2009 4:47 PM
To: Langley, Scott (C.S.); Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.)
Subject: RE: Throttle Body claims for RFR

OK, this is much better, this should limit it to the Via Hole.

Michael W. Chabon
Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Langley, Scott (C.S.)
Sent: Tuesday, September 29, 2009 5:33 PM
To: Chabon, Michael (W.); Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.)
Subject: RE: Throttle Body claims for RFR

Just to be clear… she said a resistance check of the traces on the board itself (if I have the terminology correct).

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Chabon, Michael (W.)
Sent: Tuesday, September 29, 2009 3:57 PM
To: Hall, Brent (A.); Parkinson, Tim (T.M.); Bos, Ed (E.A.)
Cc: Langley, Scott (C.S.)
Subject: FW: Throttle Body claims for RFR

Team, Scott has confirmed we do have a suspect from the field.

Nicte (or someone from Delphi) has commented that we can confirm this failure via a resistent check only. I am a bit skeptical of this as I believe a poor solder joint would have very similar symptoms.

Do you guys agree ? I don't want to be judged for breaking containment down the road when we may have a solder quality issue. Comments ?

Michael W. Chabon
Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Langley, Scott (C.S.)
Sent: Tuesday, September 29, 2009 3:05 PM
To: Horbal, Colin (C.P.); Powers, Ken (K.W.)
Cc: Bushman, Thomas (T.S.); Boerger, Jim (J.G.); Chabon, Michael (W.)
Subject: RE: Throttle Body claims for RFR

Yes, Definitely.
We are constantly pursuing warranty return parts from this program and the Fusion/Milan that uses same ETB… hot processing parts, etc.

We are doing very well on this one… getting a large percentage of returns back.
I am on a call w/ Delphi right now reviewing the returns.

I don't see an issue that has broken PCA. And, I don't see breakage of our Chip Timing issue Containment.
I believe we are seeing the effects of the PWB or Via hole issue (the latest stop-ship issue) in the latest claims.
As mentioned, the containment for the PWB or Via hole issue was not 100% effective and we don't have a firm handle on the full quantity of product that was effected.

We do have returns confirmed for the Via hole issue… so far, all before the stop ship.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Horbal, Colin (C.P.)
Sent: Tuesday, September 29, 2009 1:49 PM
To: Powers, Ken (K.W.)
Cc: Bushman, Thomas (T.S.); Boerger, Jim (J.G.); Langley, Scott (C.S.); Chabon, Michael (W.)
Subject: RE: Throttle Body claims for RFR

I expect yes, but I will confirm…Jim?...

I think that these claims are more likely due to containment breaks (the ICA was the best we had, but not 100%), but I need to discuss with the team to verify.

Colin Horbal
Manager, LGDEE OPD/Quality Dept
Phone: 313-845-7581
Cell Phone: 313-805-5734
Text Page: chorbal

From: Powers, Ken (K.W.)
Sent: Tuesday, September 29, 2009 1:46 PM
To: Horbal, Colin (C.P.)
Cc: Bushman, Thomas (T.S.)
Subject: RE: Throttle Body claims for RFR

Can you see if these parts coming back for analysis?

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

From: Powers, Ken (K.W.)
Sent: Tuesday, September 29, 2009 8:05 AM
To: Horbal, Colin (C.P.)
Cc: Bushman, Thomas (T.S.)
Subject: Throttle Body claims for 2010 RFR

Colin, we have some T-body claims in September warranty now. Do you think this was the break in containment from Delphi or is it a new issue?

Do we know a new clean point? Thanks.

<< File: TBody sept claims.pdf >>

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

Delphi 9L8E PWB "via hole" issue

Vehicle Timeline - KCAP

7/7?
(2) suspect Lots

16-Aug
Stop Ship
Containment started

24-Aug
Production Restarted

Vehicles: 45 min Idle, 3x
Engines: ETB removed & Thermal cycled
ETBs: Thermal cycled.

screened
~38,000 pcs

1-Oct
Estimated clean date for PCA

Engine Timeline

July__ ??
Start of (2) suspect PWB lots

16-Aug
Containment Started??

9/16 - ChEP
9/18 - CEP
Clean Date for PCA

ETB build timing

11-Jun

103,740 @ ~~Cispa pcs~~
Lots 0923 & 0926
Avalon Invoiced to Ig 93,888pcs
Igarashi Invoiced to Delphi91,080

17-Aug
ICA: 2nd Shift
Thermal cycling

screened
41,147 pcs
145 rejected

TPS Only
13,179 pcs
31 rejected
ETB's reworked
27,968 pcs
114 rejected

24-Aug
Clean date for PCA - CIPSA PWB corrective action
continued Thermal cycling

30,240 w/
zero rejects

Thermal cycling
Audit basis @ Sensor
100 pcs/ x,xxx pcs

supplier

From: Crudo, Frank (F.J.)
Sent: Monday, August 17, 2009 11:43 AM
To: Langley, Scott (C.S.)
Subject: FW: Stop Ship #xxxx: 2010 MY U377 and CD338

Importance: High

Pls answer. thanks

Frank J. Crudo
V-Engine Reliability Q Back
Building 1 cube 13F002
313-322-5979

From: Sarkisian, Mark (Z.)
Sent: Monday, August 17, 2009 11:22 AM
To: Crudo, Frank (F.J.); Parnell, Bill (W.)
Subject: FW: Stop Ship #xxxx: 2010 MY U377 and CD338
Importance: High

Please confirm RFR and RFR programs are uneffected, and that the ETB 's are unique and this issue is confined to Escape / CD.

Thank you,

Mark Sarkisian

Redacted for relevance

(313) 805-7384

From: Cantrell, David (D.D.)
Sent: Monday, August 17, 2009 10:07 AM
To: Sarkisian, Mark (Z.); Porter, Alan (A.T.); Young, Richard (R.C.)
Subject: FW: Stop Ship #xxxx: 2010 MY U377 and CD338

Any commonality with RFR? Thx.

Regards,

D. David Cantrell, Jr.
Redacted for relevance
Ford Motor Company
Ford-UofM FAEP Lead Recruiter
Ford Cell Ph: 313-805-8324
Redacted for relevance – PVT Office
dcantrel@ford.com

From: Powers, Ken (K.W.)
Sent: Sunday, August 16, 2009 11:22 AM
To: Powers, Ken (K.W.); Wood, Jeffery (J.C.); Wishnousky, Dale (D.S.); Loeffler, Eric (E.J.); Green, Ann (A.D.); Gourneau, Frank (F.B.); DeMarco, Joe (J.J.); Hinrichs, Joseph (J.R.); Jacobs, Betsy (E.A.); Kempf, Gregory (G.J.); Kote, Keshava (K.); Bushman, Thomas (T.S.); Christensen, Kris (K.S.); Hand, James (J.E.); Marck, Edmond (E.C.); Crowe, John (J.M.); Martin, Carolyn (CJ.); Zaner, Daniel (D.J.); Jenkins, Jim (J.T.); English, Loy (L.E.); DeFever, Lawrence (L.A.); Fowler, Bennie (B.W.); Davis, Frank (F.V.); Kuzak, Derrick (D.M.); Samardzich, Barb (B.J.); Reitz, Graydon (G.A.); Hettle, Bruce (B.W.); Cash, Linda (L.G.); Torolski, Michael (M.A.); Winegarden, Marsha (M.E.); Vido, Adrian (A.J.); Opaleski, Steven (S.J.); Calhoun, Philip (P.T.); Khan, Mohammod (T.); Myers, Matthew (M.D.); Cadwell, Rhoda (R.A.); Huff, Brad (B.D.); Roth, John (J.C.); Mascarenas, Paul (P.A.); Visintainer, Randal (R.H.); Belanger, Grant (G.E.); Stec, Pamela (P.); Davis-Smith, Kenyatta (K.T.); Lowe, Walter (W.E.); Osaer, Mark (M.M.); Gaecke, Pete (P.A.); Storves, Bill (W.K.); Velliky, Dave (D.A.); Brown, Tony (Thomas K.); Fredal, Joseph (J.G.); Loewy, Graham (G.P.); Shanahan, J D (J D.); Ankenbauer, Neil (N.D.); Marowelli, Bart (B.); Shashlo, Michael (M.L.); Green, Ann (A.D.); Horbal, Colin (C.P.); Renwick, Rick (R.J.); Fascetti, Bob (R.J.); Moore, Andrew (R.); Wright, Robin (R.A.); Ickes, Bill (B.K.)
Cc: Kwasniewicz, Chris (C.L.); Cantrell, David (D.D.); Thornton, George (G.A.); Cupka, Dick (R.D.); Goran, Jim (J.L.); Mayer, Thomas (T.A.); Collins, Keith (K.O.); Taylor, James (J.D.); Keinath, Wayne (W.); Marowelli, Bart (B.); Granfors, John (J.); Drenner, Casey (C.M.); Mogasala, Murali (M.); Galindo, Sergio (S.N.)
Subject: Stop Ship #xxxx: 2010 MY U377 and CD338

Vehicles Affected: 2010 MY Escape/Mariner/Tribute and CD338 with 2.5L and 3.0L Engines

Plants Affected: Kansas City and Hermosillo Assembly Plants

Part Affected/Supplier: 9L8E-9F991-BC; Throttle Body / Delphi

WERS Alert Numbers: A12268898 / A12268042 *(**Note**: A stop ship number could not be generated today because the database is down)*

8/15/2009:

Description:
A Stop Ship has been issued for 2010 MY Escape/Mariner/Tribute and CD338 vehicles with 2.5L and 3.0L due to Throttle Body concerns causing a check engine light.

Root Cause:
Contamination within the VIA holes of the printed circuit board in the throttle position sensor due to lack of adequate cleaning during the drilling process. The plating of the circuit through that hole is inadequate and poorly adhered because of that contaminant. This has been confirmed through thermal cycle testing.

Containment:
TBD. Traceability is under investigation from the Tier 4 in India. Vehicles are being held at both Assembly plants.

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

Subject: FW: 2010-11 Fusion Throttle Body related Stall
Location: Bharat's Office (GBA77 - PDC), Teleconf (30433432#), Webex

Start: Fri 10/12/2012 1:30 PM
End: Fri 10/12/2012 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Patel, Bharat (B.J.)

-----Original Appointment-----
From: Patel, Bharat (B.J.)
Sent: Monday, October 08, 2012 2:48 PM
To: Patel, Bharat (B.J.); Boerger, Jim (J.G.); Hwang, Sheng-Jiaw (S.J.); Chabon, Michael (W.); Schultz, Matthew (M.J.); King, Lamar (L.L.)
Subject: FW: 2010-11 Fusion Throttle Body related Stall
When: Friday, October 12, 2012 1:30 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Bharat's Office (GBA77 - PDC), Teleconf (30433432#), Webex

-----Original Appointment-----
From: Patel, Bharat (B.J.)
Sent: Monday, October 08, 2012 12:05 PM
To: Patel, Bharat (B.J.); Hwang, Sheng-Jiaw (S.J.); Chabon, Michael (W.); Schultz, Matthew (M.J.); King, Lamar (L.L.)
Subject: 2010-11 Fusion Throttle Body related Stall
When: Friday, October 12, 2012 1:30 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Bharat's Office (GBA77 - PDC), Teleconf (30433432#), Webex

Review data provided by the Ford Safety Office that needs further discussion with PTSE Engineering team

Matt: your involvement in the discussion at this stage should be very minimal – specifically, if engineering wants to better understand how the data was cut. I have a general idea, but if they have some specific questions on the filtering than you would be in a better position to explain this.

Mike / Sheng-Jiaw: My hope is the share the data with you and give you some time (1-2) weeks to analyze the data so that we can have a deep dive discussion with ASO & OGC and discuss appropriate next steps. For advanced review, I am including the data provided to me by ASO in this mtg notice but some of the data may not initially make sense unless it is further explained.

Bharat Patel invites you to an online meeting using WebEx.

WebEx meeting information

Meeting Number: 715 811 566
Meeting Link: https://ford.webex.com/ford/j.php?J=715811566
Meeting Password: This meeting does not require a password.

Audio conference information

None

MC06

http://www.webex.com

Confidential

CUMULATIVE CHART

Cutoff Date : Aug 31, 2012

2004-2013 Fusion

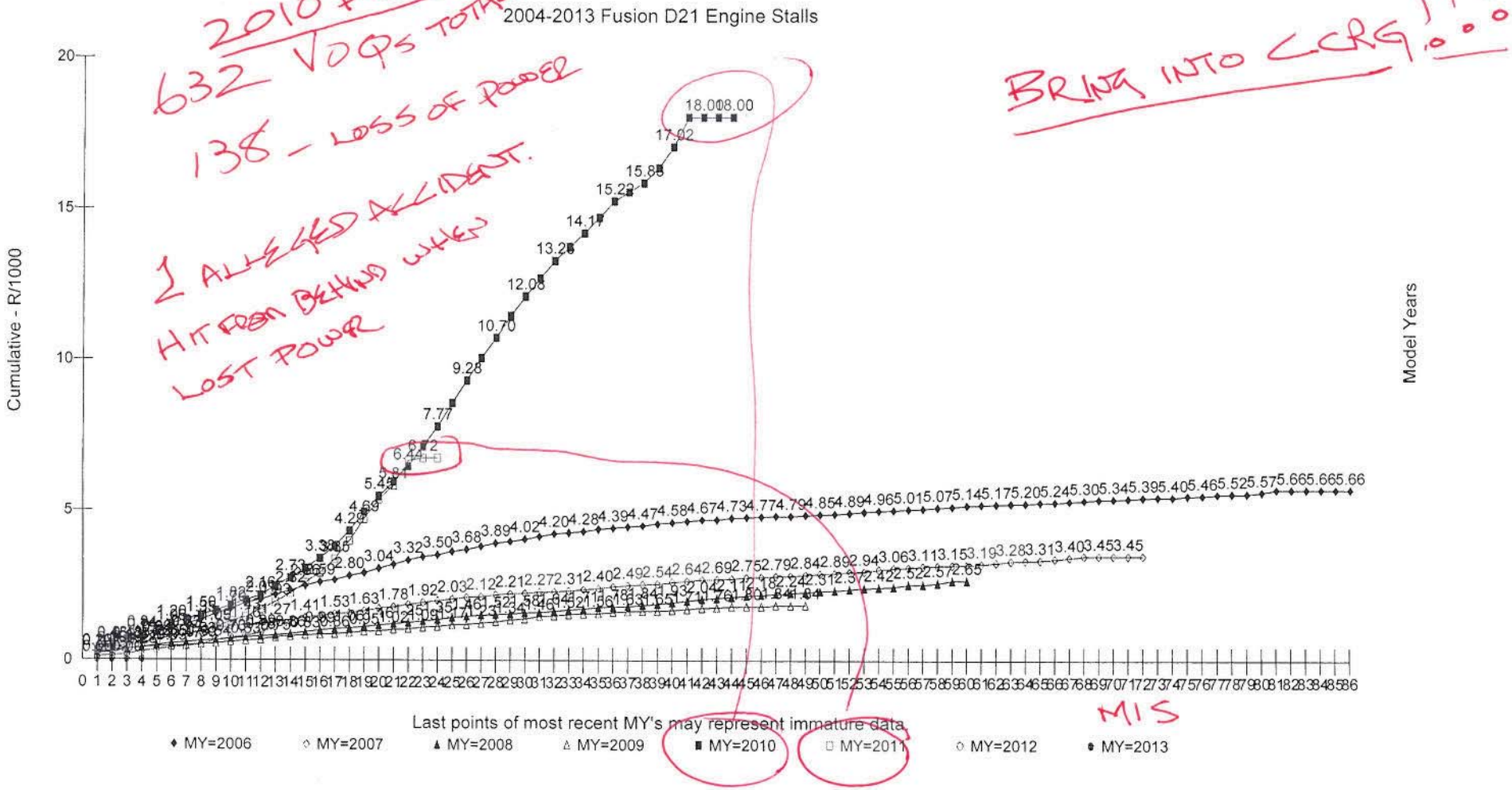
Print Date : Sep 27, 2012
Print Time : 10.30
Model Years : 2013,2012,2011,2010,2009,2008,2007,2006 **Logic :** Corporate
Statistic : R/1000 **Value(s) :** ALL TIS
Unique : MODEL YEAR MATRIX

Min Divisor : 50

Result ID : 16463001
Page Number : 11
Max TIS : 86

2010 FUSION
632 VOQs TOTAL
138 - LOSS OF POWER
ALLEGED ACCIDENT.
HIT FROM BEHIND WHEN LOST POWER

BRING INTO CRG!!!



END OF REPORT

Generated By: MSCHULTZ

From: Langley, Scott (C.S.)
Sent: Wednesday, June 29, 2011 11:09 PM
To: Gifford, Scott (S.C.)
Subject: FW: CHEP 2011CY WARRANTY ETB STATUS

Scott,
Here are the latest ChEP ETB claims and their status.
So, there are three of these that we had here and one that we still have.

The earliest two are the only ones in question with respect to the Tagging/Return process.
Not sure about those that show "Carried out of WPAC." … the presumption is that should be our team, but not noted.
Could have been anybody.

I have two more fuel rail claims that I'd like to have you take a look at and help us with WPAC.
I'll scan and send to you tomorrow.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

-----Original Message-----
From: Davis, Andrae (A.L.)
Sent: Wednesday, June 29, 2011 5:04 PM
To: Langley, Scott (C.S.)
Subject: RE: CHEP 2011CY WARRANTY ETB STATUS

How is this ?

Andrae Davis
Powertrain Engineering
Ford Motor Company
Email: adavis2@ford.com
Phone: (313) 805-8786

-----Original Message-----
From: Langley, Scott (C.S.)
Sent: Wednesday, June 29, 2011 2:39 PM
To: Davis, Andrae (A.L.)
Subject: RE: CHEP 2011CY WARRANTY ETB STATUS

Andrae,

Could you take the Excel file and either add a column for "Part Status" after Column B or just use B? ... Then, fill that out to state the status... "shipped to Delphi," "Tagged, not received at WPAC," "Shown as carried out of WPAC, but not in our possession," etc.?
Then, could you re-title the last column to "Delphi Analysis Status" ?

Delete non-CY2011 parts or cut-and-paste to a new file.

Thanks.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality & Rawsonville Resident Engrg (for Engine Components) (Components = Air Metering, Fuel Metering, Ignition, ESMs) Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

-----Original Message-----
From: Davis, Andrae (A.L.)
Sent: Wednesday, June 29, 2011 12:59 PM
To: Langley, Scott (C.S.); Davis, Andrae (A.L.)
Subject: CHEP 2011CY WARRANTY ETB STATUS

Please open the attached document. This document was digitally sent to you using an HP Digital Sending device.

MDL YR	Part Status	VIN CD	PRODN DT	WRTY START DT	PART NUM CAUS PREF	RPR DT	MILGE	TECH TXT1	Engine Desc	Delphi Analysis Status
2011	Inprocess @ Bldg 1, Ford	3FADP0L30BR[redacted]	13-Apr-11	5-May-11	9L8Z	11-May-11	375	RUN EEC	C/S3 - Car 2.5L DOHC 170HP	Not Received
2011	Shipped to Delphi	1FMCU0D73BK[redacted]	6-Apr-11	2-May-11	9L8Z	3-May-11	21	ROADTES	T/S7 - Truck 2.5L DOHC PFI GAS	Not Received
2011	Carried out of WPAC/ Location TBD	3FAHP0HA2BR[redacted]	11-Mar-11	30-Mar-11	9L8Z	26-Apr-11	176	VERIFIED	C/SB - Car 2.5L DOHC PFI 170HP	Not Received
2011	Carried out of WPAC/ Location TBD	3FAHP0HA2BR[redacted]	11-Mar-11	26-Mar-11	9L8Z	22-Apr-11	864	TEST DRC	C/SB - Car 2.5L DOHC PFI 170HP	Not Received
2011	Shipped to Delphi	1FMCU0E76BK[redacted]	11-Mar-11	26-Mar-11	9L8Z	13-May-11	1420	THROTTLE	T/S7 - Truck 2.5L DOHC PFI GAS	Not Received
2011	Carried out of WPAC/ Location TBD	3FAHP0HA4BR[redacted]	3-Mar-11	18-Mar-11	9L8Z	4-Apr-11	2145	DTC FOR	C/SB - Car 2.5L DOHC PFI 170HP	Not Received
2011	Shipped to Delphi	3FAHP0HA6BR[redacted]	16-Feb-11	3-Mar-11	9L8Z	19-Apr-11	3207	DIAGNOSI	C/SB - Car 2.5L DOHC PFI 170HP	Not Received
2011	Not Tagged	3FAHP0HA5BR[redacted]	10-Feb-11	28-Feb-11	9L8Z	14-Apr-11	3983	REPLACE	C/SB - Car 2.5L DOHC PFI 170HP	Not Received
2011	Tagged not Recv'd @ WPAC	1FMCU0D72BK[redacted]	20-Jan-11	6-May-11	9L8Z	12-May-11	436	ROADTES	T/S7 - Truck 2.5L DOHC PFI GAS	Not Received

From: Langley, Scott (C.S.)
Sent: Wednesday, September 09, 2009 3:09 PM
To: Hall, Brent (A.); Chabon, Michael (W.); Bos, Ed (E.A.)
Cc: 'O'Neill, Daniel P'; Davis, Andrae (A.L.)
Subject: FW: Estimate of Warranty Claims at 6 months and 3 years for Vias Hole Issue
Attachments: Vias Hole Issue Field Exposure Estimate 08SE09.ppt

Brent, Mike, Ed,
This needs update based on Dan's email moments ago.
But, it's an attempt to get a handle on how many returns we'll see in 6 mos, 3yrs, etc.
Makes an assumption that 100 cycles = 1 year of field service.

Dan,
Do you want to update and resend?
And, we can put CI's around the failure rates.

NOTE: Please also keep Andrae in the loop on all communications on this 9L8E PART.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: O'Neill, Daniel P [mailto:daniel.p.o.neill@delphi.com]
Sent: Tuesday, September 08, 2009 12:21 PM
To: Langley, Scott (C.S.)
Subject: RE: Estimate of Warranty Claims at 6 months and 3 years for Vias Hole Issue

Scott attached is an updated version. The total numbers for screened and unscreened have been correct.

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623
Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: O'Neill, Daniel P
Sent: Thursday, September 03, 2009 7:39 PM

To: 'Langley, Scott (C.S.)'
Subject: Estimate of Warranty Claims at 6 months and 3 years for Vias Hole Issue

Scott attached is a draft copy. I could not estimate 5 years yet since we have not completed 500 thermal cycles. I did three years instead. We can update later.

I still can not account for 13,500 parts – need to work on it. I do not think they have been shipped though. It they are in shipped parts it would not change the numbers much.

Please review and give me your thoughts on the approach.

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623

Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

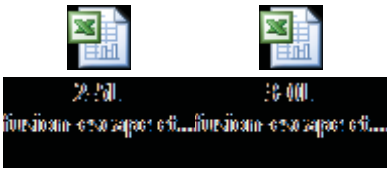
From: Boerger, Jim (J.G.)
Sent: Wednesday, July 21, 2010 3:12 PM
To: Chabon, Michael (W.); Hall, Brent (A.)
Subject: FW: ETB Charts

FYI

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

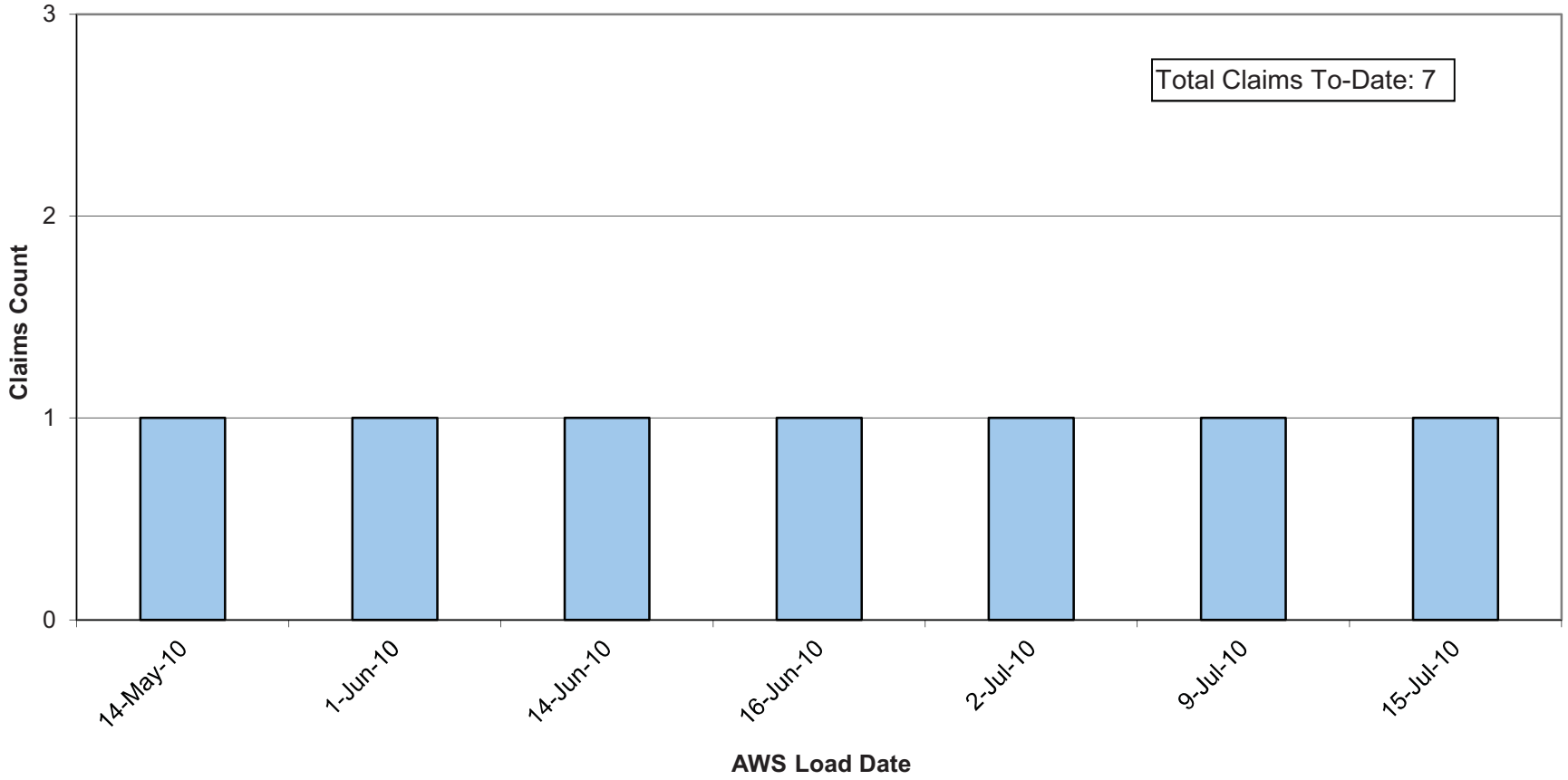
From: Immonen, Mark (M.)
Sent: Wednesday, July 21, 2010 3:12 PM
To: Wilson, David (D.G.)
Cc: Boerger, Jim (J.G.); Langley, Scott (C.S.); Crudo, Frank (F.J.)
Subject: ETB Charts

Here's the requested ETB charts. Attached is 2.5L Fusion/Escape and 3.0L Fusion/Escape with >/= April 1st production dates. There's just a handful of claims for each. No ETB claims yet for RFR (with 4/1/10 plus dates).

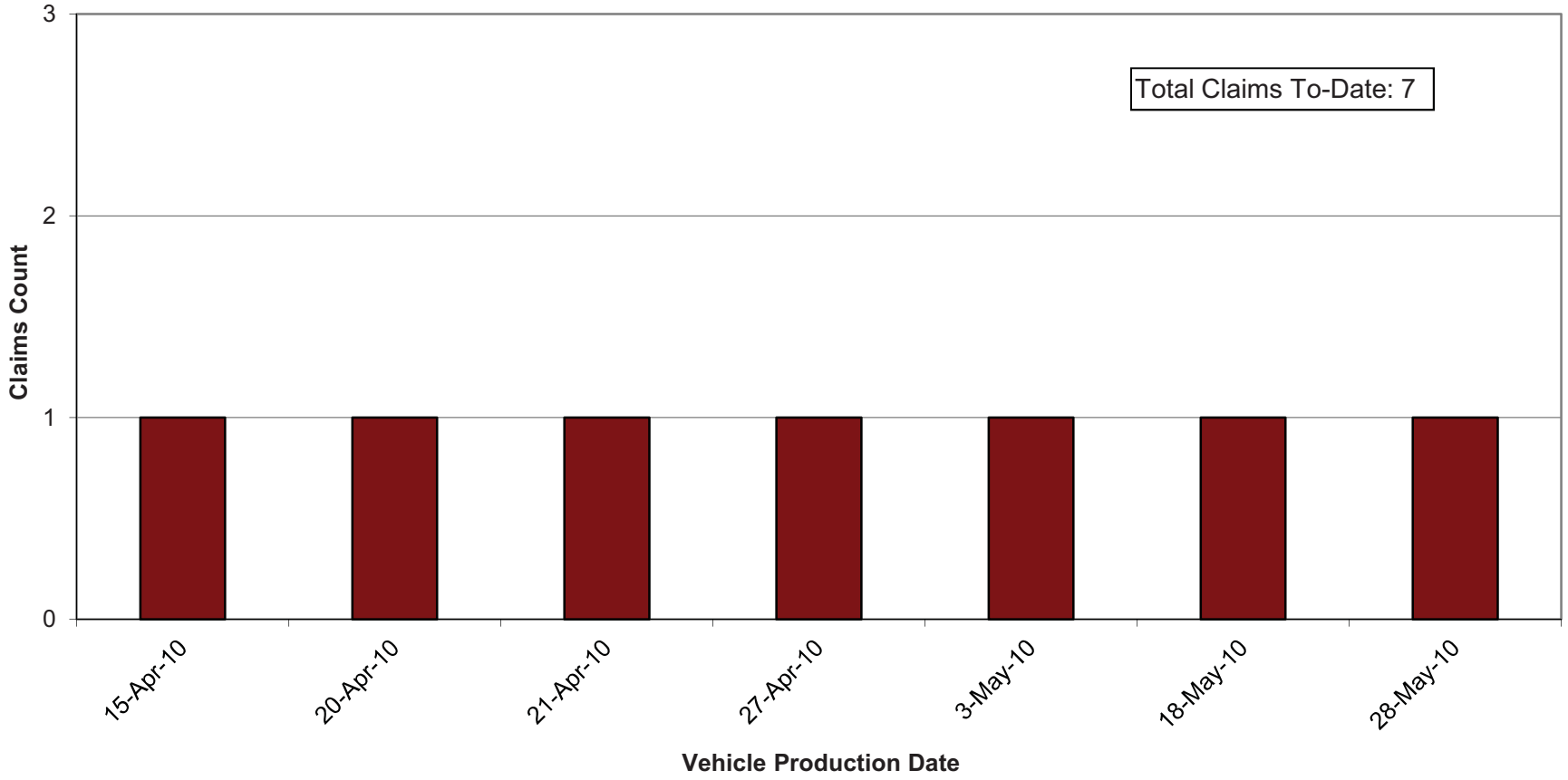


Mark Immonen
P.D. Reliability Engineer
Powertrain Quality
Building #1, 13G008
Ph: 313-595-2155
Fax: 313-390-6600
email: mimmonen@ford.com

3.0L Fusion / Escape Throttle Body Claims - by Load Date
>/= April 1, 2010 Vehicle Production Dates
Through Load Date: 7-20-10



3.0L Fusion / Escape Throttle Body Claims - by Production Date
>/= April 1, 2010 Vehicle Production Dates
Through Load Date: 7-20-10



Base Part No: 9E926
>/= April 1, 2010 Production Date

Load Date	Grand Total
14-May-10	1
1-Jun-10	1
14-Jun-10	1
16-Jun-10	1
2-Jul-10	1
9-Jul-10	1
15-Jul-10	1
Grand Total	7

Production Date	Grand Total
15-Apr-10	1
20-Apr-10	1
21-Apr-10	1
27-Apr-10	1
3-May-10	1
18-May-10	1
28-May-10	1
Grand Total	7

Report Info	Status=Fin	Request Na	Description	Run Date A	Completior	Job Size=4	Execution T	Precalc Pro
Data Selec	Model Yea	Cost Categ	Region Bui	Part Num E	Load Date	Production	Engine [en] = 3.0L 4V	
Report Sel	Report Nar	Model Yea	Destination	Csv Name=	Order By=	Columns R	Maximum (	Logic=Corp

Model Yea	VIN	Labor Cost	Vehicle Lin	Market Der	Body/Cab T	Version/Se	Drive Type	Engine [EN
2010	1FMCU0D(	75.86	T/M7	F	T/WE	T/EF	T/A	T/SG
2010	1FMCU9E(	88.19	T/M7	F	T/WE	T/EF	T/F	T/SG
2010	1FMCU0D(	111.2	T/M7	F	T/WE	T/EF	T/A	T/SG
2010	3FAHP0JG	75.64	C/DE	F	C/FA	*	C/A	C/SG
2010	4M2CN9H(	210.76	T/M7	M	T/WE	T/EL	T/F	T/SG
2010	3MEHM0J(	105.67	C/DE	M	C/FA	*	C/A	C/SG
2010	3FAHP0H(	140.15	C/DE	F	C/FA	*	C/A	C/SG

Cut Off Dat Load Date= Currency E Generated By=MIMMONEN
OHC V6 DURATEC 230HP[T/SG], 3.0L 4V OHC V6 DURATEC 230HP[C/SG]
Tis Claims= Claims Ret Requested Reported C Requested Reported D Description Default Claims (no Dat

Transmissi	Assembly F	Production	Warranty S	Load Date	Repair Dea	Document	Repair Dea	WCC
T/W6	AJ	27-Apr-10	########	1-Jun-10	FRASER F	21080201	5761800	2.00E+03
T/W6	AJ	3-May-10	########	14-Jun-10	SUPERIOF	034553A	2964477	2.00E+03
T/W6	AJ	########	21-Jun-10	9-Jul-10	TAYLOR F	133937A	2910300	2.00E+03
C/W6	A3	15-Apr-10	1-May-10	16-Jun-10	MILHAM F	42049102	2539191	2.00E+03
T/W6	AJ	20-Apr-10	24-Jun-10	2-Jul-10	SENTRY F	275812A	3956400	2.00E+03
C/W6	A3	########	9-Jul-10	15-Jul-10	MATHEWS	291608A	6264721	2.00E+03
C/W6	A3	21-Apr-10	6-May-10	########	FUTURE F	301344A	2912581	2.00E+03

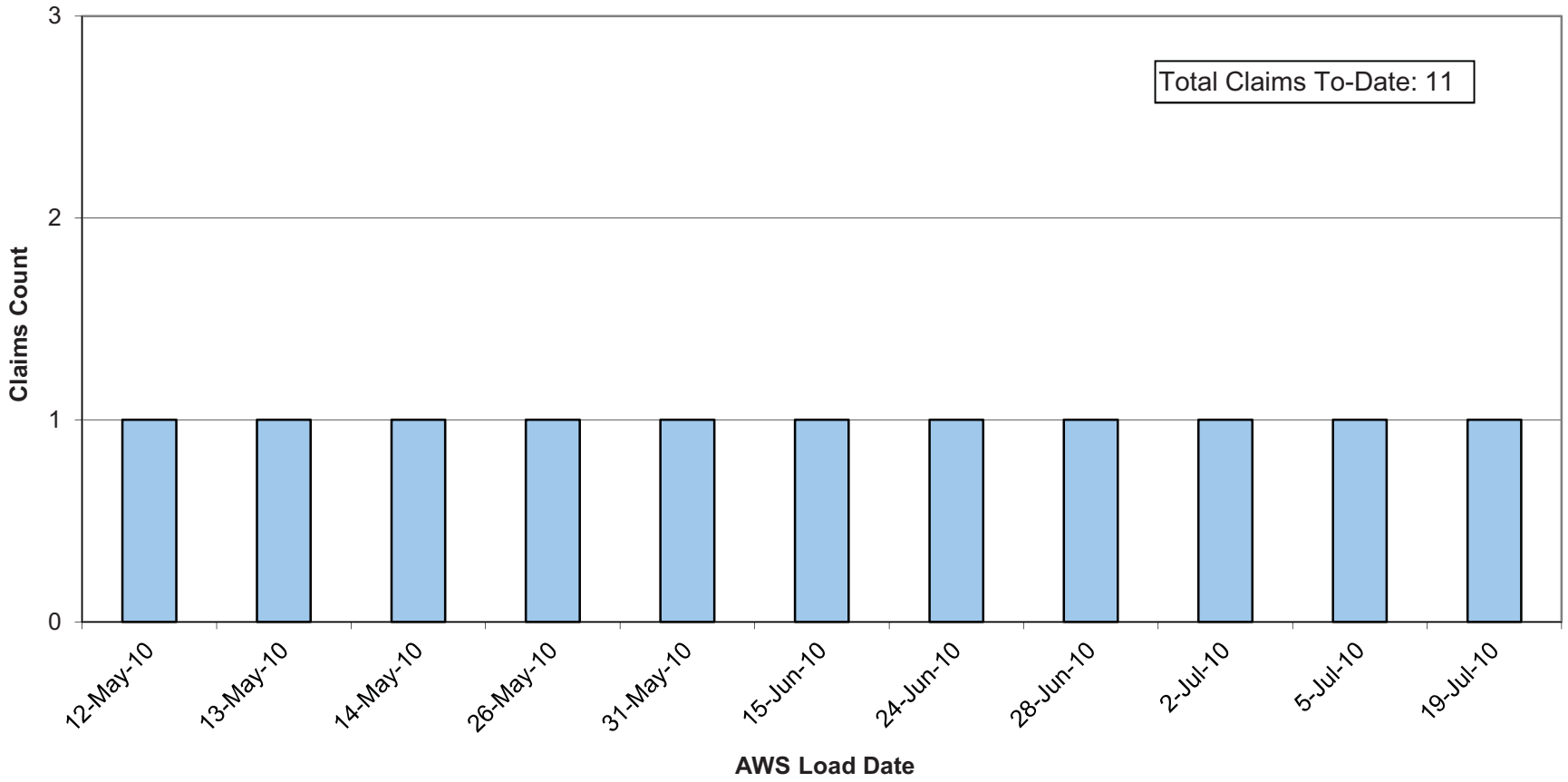
e Filters)=Up to current cutoff date

Part Num F	Part Num E	Part Num S	Customer (	Condition C	Repair Dat	TIS	Claim Key	Mileage
9L8Z	9E926	A	D50	42	########	1	498901	378
*	9E926	*	P67	33	3-Jun-10	1	597587	2380
9L8Z	9E926	A	E29	42	7-Jul-10	1	751320	824
9L8Z	9E926	A	E29	42	7-Jun-10	2	613727	1682
9L8Z	9E926	A	E29	42	1-Jul-10	1	720558	200
9L8Z	9E926	A	E29	42	12-Jul-10	1	782496	280
9L8Z	9E926	A	E29	42	########	1	422398	838

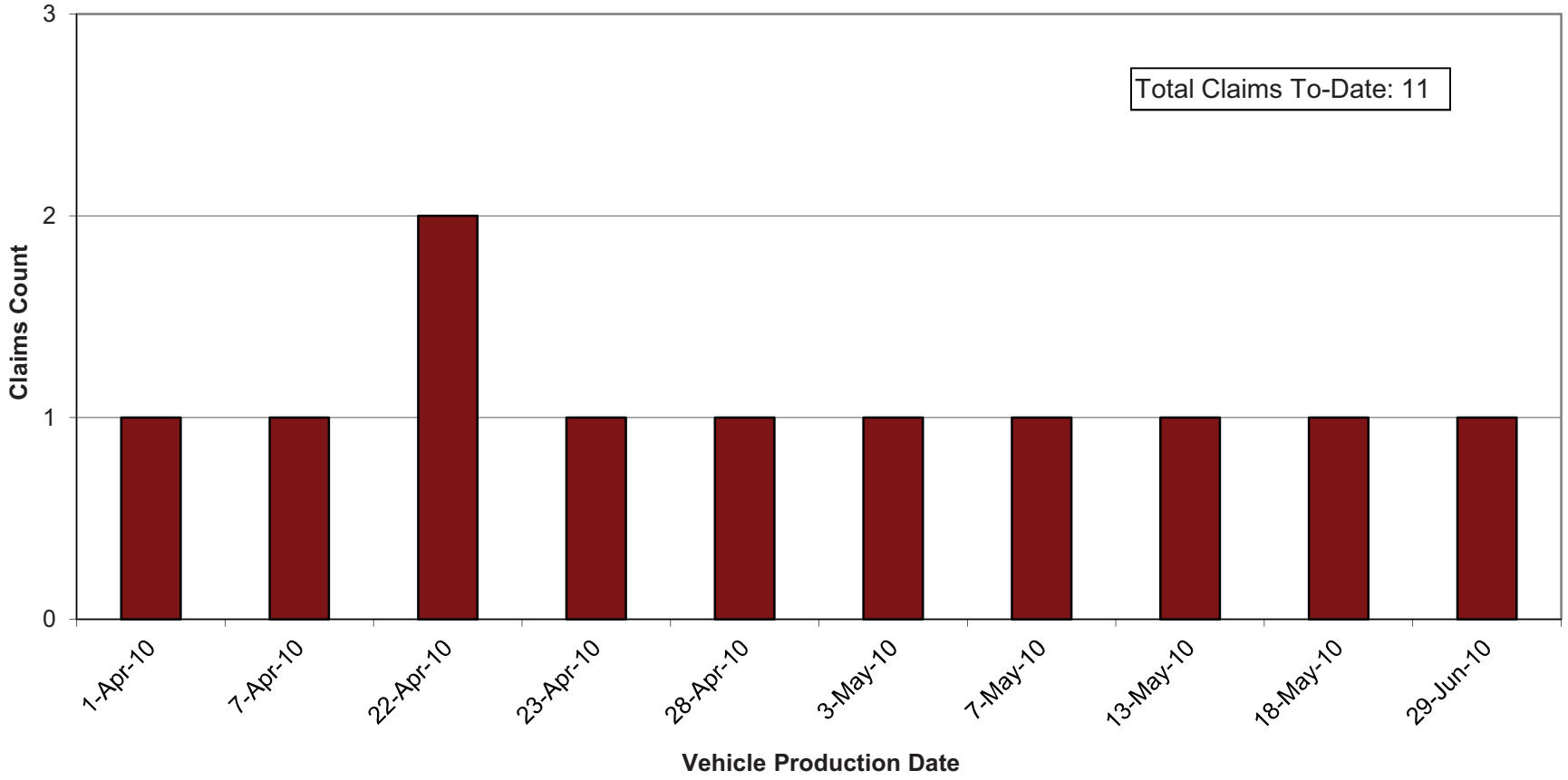
Material Cc	Total Cost	Labor Hou	Repair Dea	Repair Dea	Region Re	Repair Dea	Technician	Customer C
151.54	227.41	1	B1227	*	NA	ON	PERFORM	WHILE DR
0	88.19	1.3	5909	*	NA	WV	FOUND IN	AUTOMAT
136.72	247.92	1.2	4501	*	NA	MI	830 CC 42	E29 C S TH
136.72	212.36	0.9	797	*	NA	PA	CODE B16	CUSTOME
136.72	347.48	2	8811	*	NA	MA	200 INSTA	CUSTOME
136.72	242.39	1.3	2265	*	NA	OH	CHECK OU	CUSTOME
136.72	276.87	1.3	7777	*	NA	CA	EEC TEST	CUST STA

Repair Dea	Country Re	Sell Dealer	Transactio	Country Sc	VFG	Vehicle Lin	VRT	JLR VRT
905	CAN	4B1227	2	CAN	V44	M1	F04	S11
304	USA	144496	S07	USA	V48	M1	F04	S11
313	USA	148044	S07	USA	V29	M1	F04	S11
610	USA	141706	S07	USA	V29	DE	F04	S11
781	USA	312386	S07	USA	V29	MR	F04	S11
419	USA	318245	S07	USA	V29	ML	F04	S11
559	USA	172350	S07	USA	V29	DE	F04	S11

2.5L Fusion / Escape Throttle Body Claims - by Load Date
>/= April 1, 2010 Vehicle Production Dates
Through Load Date: 7-20-10



2.5L Fusion / Escape Throttle Body Claims - by Production Date
>/= April 1, 2010 Vehicle Production Dates
Through Load Date: 7-20-10



Base Part No: 9E926
>/= April 1, 2010 Production Date

Load Date	Grand Total
12-May-10	1
13-May-10	1
14-May-10	1
26-May-10	1
31-May-10	1
15-Jun-10	1
24-Jun-10	1
28-Jun-10	1
2-Jul-10	1
5-Jul-10	1
19-Jul-10	1
Grand Total	11

Production Date	Grand Total
1-Apr-10	1
7-Apr-10	1
22-Apr-10	2
23-Apr-10	1
28-Apr-10	1
3-May-10	1
7-May-10	1
13-May-10	1
18-May-10	1
29-Jun-10	1
Grand Total	11

Report Info	Status=Fin	Request Na	Description	Run Date A	Completior	Job Size=6	Execution T	Precalc Pro
Data Selec	Model Yea	Cost Categ	Region Bui	Part Num E	Load Date	Production	Engine [en] = 2.5L DOI	
Report Sel	Report Nar	Model Yea	Destination	Csv Name=	Order By=	Columns R	Maximum (	Logic=Corp

Model Yea	VIN	Labor Cost	Vehicle Lin	Market Der	Body/Cab T	Version/Se	Drive Type	Engine [EN
2010	3FAHP0JA	85.01	C/DE	F	C/FA	*	C/A	C/SB
2010	1FMCU0D1	89.29	T/M7	F	T/WE	T/EF	T/A	T/S7
2010	1FMCU0D1	102.23	T/M7	F	T/WE	T/EF	T/A	T/S7
2010	3FAHP0HA	161.92	C/DE	F	C/FA	*	C/A	C/SB
2010	1FMCU0D1	168.56	T/M7	F	T/WE	T/EF	T/A	T/S7
2010	1FMCU9D1	52	T/M7	F	T/WE	T/EF	T/F	T/S7
2010	3FADP0L3	118.34	C/DE	F	C/FA	*	C/A	C/S3
2010	3FAHP0HA	103.84	C/DE	F	C/FA	*	C/A	C/SB
2010	1FMCU0D1	85.01	T/M7	F	T/WE	T/EF	T/A	T/S7
2010	1FMCU0D1	87.89	T/M7	F	T/WE	T/EF	T/A	T/S7
2010	3FAHP0HA	104.13	C/DE	F	C/FA	*	C/A	C/SB

Cut Off Dat Load Date= Currency E> Generated By=MIMMONEN
HC PFI 170HP DURATEC HE[C/SB], 2.5L DOHC PFI 4 CYL GAS[T/S7], ATK-CYC 2.5 4V PFI I4 GAS/ELE
Tis Claims= Claims Ret Requested Reported C Requested D Reported D Description Default Claims (no Dat

Transmissi	Assembly F	Production I	Warranty St	Load Date	Repair Dea	Document	Repair Dea	WCC
C/W6	A3	28-Apr-10	16-May-10	31-May-10	CLASSIC F	9236301	2663000	2.00E+03
T/W6	AJ	3-May-10	28-Jun-10	5-Jul-10	MIKE RAIS	6763951	4479444	2.00E+03
T/W6	AJ	29-Jun-10		19-Jul-10	LANDERS	246863A	8543673	2.00E+03
C/W6	A3	7-Apr-10	22-Apr-10	14-May-10	BREDEMA	18118802	9984000	2.00E+03
T/W6	AJ	7-May-10	14-May-10	26-May-10	COURTES	45294701	6801200	2.00E+03
T/W6	AJ	23-Apr-10	8-May-10	15-Jun-10	HERTZ RA	33387501	*	2.00E+03
C/AI	A3	22-Apr-10	7-May-10	12-May-10	NORTH BA	25891601	4234550	2.00E+03
C/W6	A3	22-Apr-10	18-May-10	2-Jul-10	RUSSELL	826651	6634111	2.00E+03
T/W6	AJ	1-Apr-10	18-May-10	13-May-10	CLASSIC F	6954801	2663000	2.00E+03
T/W6	AJ	13-May-10	28-May-10	24-Jun-10	RIVERTOV	2672451	6537420	2.00E+03
C/W6	A3	18-May-10	2-Jun-10	28-Jun-10	BERGE FC	60177401	4971111	2.00E+03

:C[C/S3], ATK-CYC 2.5 4V PFI I4 GAS/ELEC[T/S3]
.e Filters)=Up to current cutoff date

Part Num F	Part Num E	Part Num S	Customer (	Condition C	Repair Dat	TIS	Claim Key	Mileage
9L8Z	9E926	A	E29	41	########	1	495689	190
9L8Z	9E926	A	E29	42	1-Jul-10	1	724731	337
9L8Z	9E926	A	D13	42	9-Jul-10	-1	798033	15
9L8Z	9E926	A	E29	42	########	1	419745	811
9L8Z	9E926	A	E29	42	########	1	470028	13
*	9E926	*	E29	42	########	1	611403	1108
9L8Z	9E926	A	E29	42	7-May-10	0	410602	168
9L8Z	9E926	A	D13	42	28-Jun-10	2	718949	4427
9L8Z	9E926	A	D42	42	########	0	414758	8
9L8Z	9E926	A	E29	42	18-Jun-10	1	667291	996
9L8Z	9E926	A	D50	42	17-Jun-10	1	688618	887

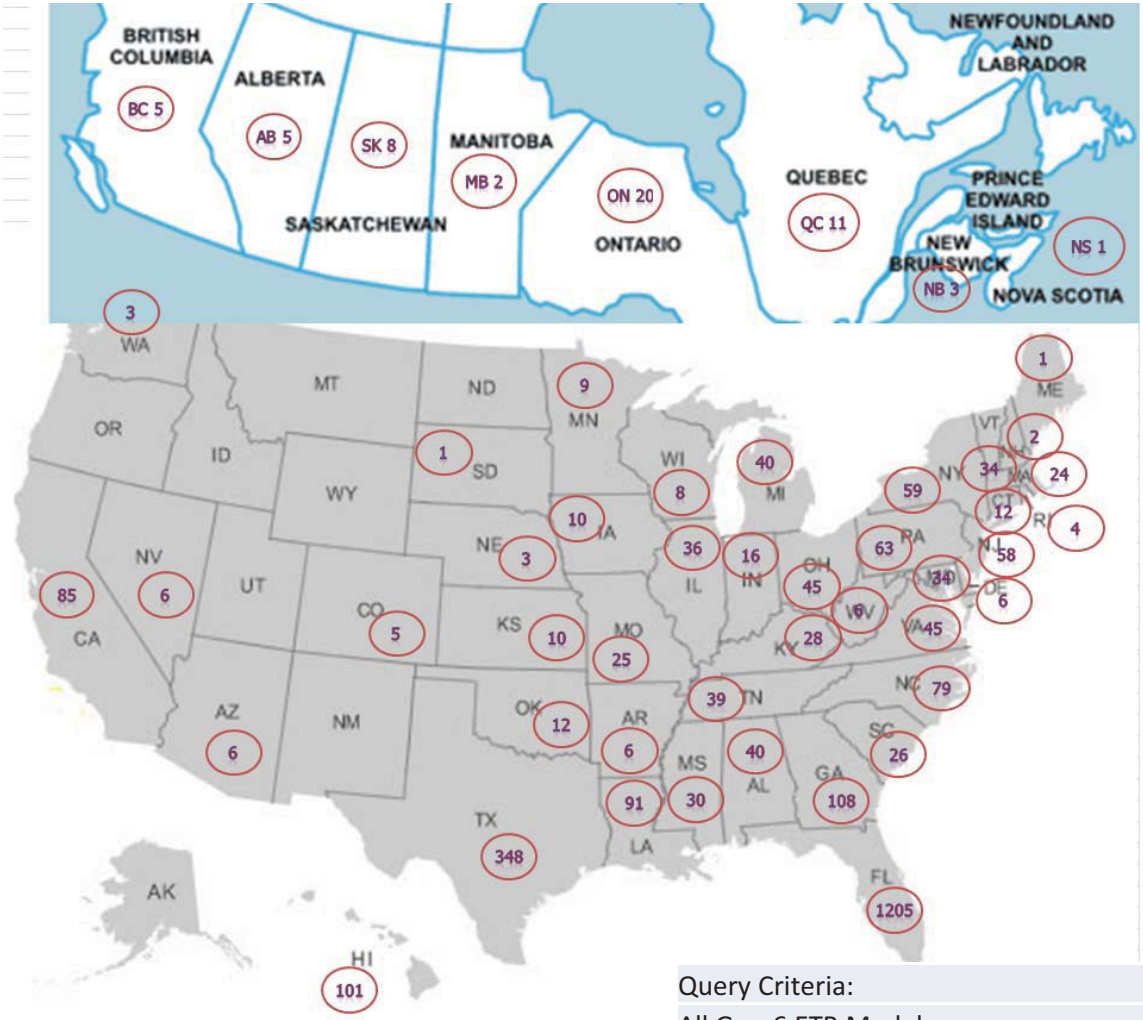
Material Cc	Total Cost	Labor Hou	Repair Dea	Repair Dea	Region Re	Repair Dea	Technician	Customer C
136.72	221.73	1	2917	*	NA	OH	THROTTLE	CUSTOME
146.49	235.78	1.1	4634	*	NA	IN	EEC TEST	CUSTOME
136.72	238.95	1.1	3820	*	NA	TN	VERIFIED	VEHICLE I
151.7	313.62	1.6	1554	*	NA	IL	WE HAVE	CHECK EN
151.54	320.11	2.1	A8044	*	NA	ON	DIAGNOSE	REPORT C
0	52	0.8	45274	*	NA	PA	INTAKE H(	CHECK EN
136.72	255.06	1.1	7888	*	NA	CA	INSPECTE	CHECK CA
136.72	240.56	1.2	4572	*	NA	TX	EEC TEST	ENGINE IS
136.72	271.73	1	2917	*	NA	OH	9E926 CC4	TOWED IN
146.49	234.38	1.1	4110	*	NA	GA	THOTTLE	C S WREN
136.72	240.85	1.1	20305	*	NA	AZ	FOUND FA	CUSTOME

	Repair Dea	Country Re	Sell Dealer	Transactio	Country Sc	VFG	Vehicle Lin	VRT	JLR VRT
	440	USA	144128	S07	USA	V29	DE	F04	S11
	765	USA	147059	S07	USA	V29	M1	F04	S11
	901	USA	123006	S07	USA	V40	M1	F04	S11
	847	USA	141893	S07	USA	V29	DE	F04	S11
	519	CAN	4A8044		1 CAN	V29	M1	F04	S11
*		USA	171327	S07	USA	V29	M1	F04	S11
	831	USA	141893	S07	USA	V29	DH	F04	S11
	713	USA	152026	S07	USA	V40	DE	F04	S11
	440	USA	144124	S07	USA	V52	M1	F04	S11
	706	USA	152789	S07	USA	V29	M1	F04	S11
	480	USA	152789	S07	USA	V44	DE	F04	S11

IG motor resistance related failures

Representation of claims by state for Delphi 60/68mm for Ford

Ford 60/68 single point failure claims



Query Criteria:
All Gen-6 ETB Models
2010 - 2012 Model Years
DTC's P2111-P2112 Only
Vehicle Production Dates 1/1/2010 - Present (Excludes Via Hole Issue)

From: Sant, David W <david.w.sant@delphi.com>
Sent: Monday, January 25, 2010 9:38 AM
To: Langley, Scott (C.S.)
Subject: P0122, P0222 Warranty Return Summary
Attachments: DTC Analysis.xls

Hi Scott,

Here is the 9L8E analysis for DTC's P0122 and P0222, per your request. Please review and let me know if you need any additional information.

Enjoy!

Dave Sant
Sr. Warranty Engineer
Engine Air Control Valves;
MPFI And GDi Fuel Systems

Address/Contact Info:
Delphi Powertrain Systems
5500 W. Henrietta Road
W. Henrietta, NY 14586
Mail Code: 515
Phone: 585-359-6925

DTC Code Group	Excludes P2135

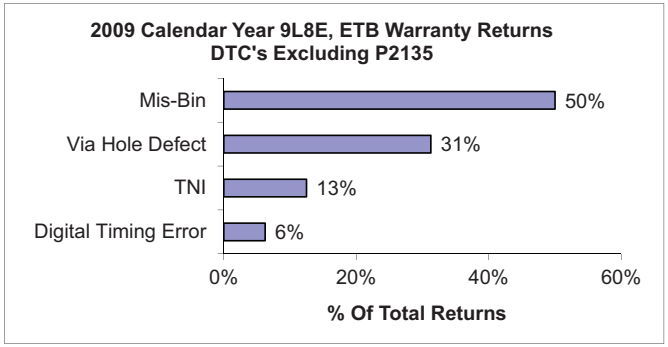
In-Process Warranty Returns Omitted

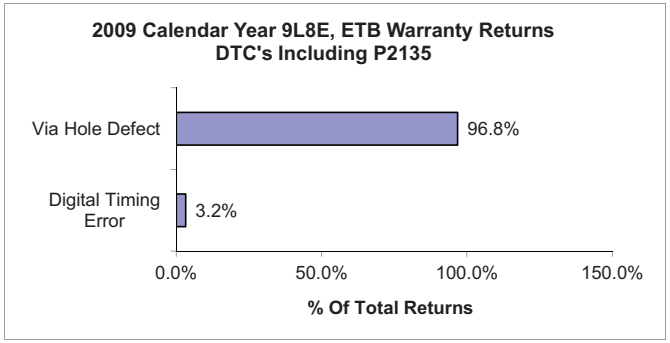
Count of Part Status	Build Month									
	1/1/2009	2/1/2009	3/1/2009	4/1/2009	5/1/2009	6/1/2009	7/1/2009	8/1/2009	Grand Total	% Of Total
Digital Timing Error	1								1	6%
TNI							1	1	2	13%
Via Hole Defect						1	2	2	5	31%
Mis-Bin	1	5	1				1		8	50%
Grand Total	2	5	1	0	0	1	4	3	16	

DTC Code Group	Includes P2135

In-Process Warranty Returns Omitted

Count of Part Status	Build Month									
	1/1/2009	2/1/2009	3/1/2009	4/1/2009	5/1/2009	6/1/2009	7/1/2009	8/1/2009	Grand Total	% Of Total
Digital Timing Error	1								1	3.2%
Via Hole Defect						3	15	12	30	96.8%
Grand Total	1	0	0	0	0	3	15	12	31	





Vin #	[redacted]	DTC Codes Present	DTC Code Group	Part Location
1FMCU0D79A		P2111,P2135	Includes P2135	MTC
3FAHP0HAXA		P2135	Includes P2135	MTC
1FMCU9DG7A		P2135, P2111	Includes P2135	SEC
1FMCU03789K		P2111P2135P1111	Includes P2135	TCR
1FMCU03749K		P2135, P2111	Includes P2135	SEC
1FMCU03G89		P1124, P2135	Includes P2135	MTC
3MEHM0JA3A		P2135	Includes P2135	
4M2CU39389K		P0122, P2111, P2135	Includes P2135	
1FMCU93789K		P2101, P2135, P0122	Includes P2135	
1FMCU04729K		P0122, P1128, P2135	Includes P2135	MTC
3FAHP0JA7AR		P2135	Includes P2135	TCR
3FAHP0HA4AR		P2135	Includes P2135	
3MEHM0HAXA		P1124, P2111, P2135	Includes P2135	
3FAHP0HA9AR		P2111, P2135	Includes P2135	
1FMCU937X9K		P2135	Includes P2135	
3FAHP0HA7AR		P2135	Includes P2135	
1FMCU93G29		P2111, P2135	Includes P2135	MTC
4M2CN8HG7A		P2111, P2135	Includes P2135	
3FADP0L34AR		P2135	Includes P2135	
3FAHP0HA5AR		P2135P2111	Includes P2135	
3MEHM0HAXA		P2111P2135	Includes P2135	
3FAHP0HA0AR		P0122,P2135	Includes P2135	MTC
3FAHP0JA3AR		P2135	Includes P2135	
3FAHP0HA2AR		P2135	Includes P2135	
3FAHP0HA7AR		P2111,P2135	Includes P2135	
3FAHP0JG6AR		P2111,P2135	Includes P2135	
3FAHP0HA2AR		P2111,P2135	Includes P2135	
1FMCU9DG5A		P1124P2135	Includes P2135	
1FMCU0DG3A		P1124, P2135	Includes P2135	
1FMCU0DG0A		P0122, P2111, P2135	Includes P2135	
3FAHP0HA6AR		P2135	Includes P2135	MTC
3FAHP0HA8AR		P2135, P2111	Includes P2135	MTC
3FAHP0HA2AR		P2135, P2111	Includes P2135	MTC
1FMCU9DG8A		P2135, P0122, P210, P2	Includes P2135	SEC
3FAHP0HA8AR		P2135	Includes P2135	SEC
1FMCU0EG1A		P2135	Includes P2135	MTC
1FMCU0D73A		P2111, P2135	Includes P2135	MTC
1FMCU9DG6A		P2135, P2111	Includes P2135	MTC
3FAHP0HA2AR		P0223, P2101, P2111, P	Includes P2135	MTC
1FMCU0DGXA		P2111, P2135	Includes P2135	SEC
4M2CN8HGXA		P2135	Includes P2135	SEC
1FMCU0DG1A		P2111, P2135	Includes P2135	MTC
3FADP0L36AR		P2135	Includes P2135	MTC
1FMCU9DG3A		P2135	Includes P2135	MTC
3FAHP0JG7AR		P2135	Includes P2135	SEC
1FMCU0DG5A		P0122, P2111, P2135	Includes P2135	MTC
1FMCU0E77A		P2135	Includes P2135	MTC
1FMCU0D79A		P2111, P2135	Includes P2135	MTC

3FAHP0HG3A	P2111, P2135	Includes P2135	MTC
3FAHP0HAXA	P2135, P0122, PO223, F	Includes P2135	MTC
3FAHP0HG9A	P2135	Includes P2135	MTC
1FMCU0C78AK	P2111, P2135	Includes P2135	MTC
3FAHP0HA6AR	P2135	Includes P2135	MTC
1FMCU9EG9A	P2135	Includes P2135	MTC
3FAHP0HA6AR	P2135	Includes P2135	
1FMCU0EGXA	P2135	Includes P2135	MTC
1FMCU9DG7A	P2111, P2135	Includes P2135	MTC
1FMCU0EG3A	P2135	Includes P2135	MTC
1FMCU0DG5A	P2135, P2111, P2106	Includes P2135	
1FMCU0DG3A	P1124, P2111, P2135	Includes P2135	
3FADP0L31AR	P0122, P0222, P2111, P	Includes P2135	MTC
1FMCU0DG0A	P0122, P0223, P2111, P	Includes P2135	
3FAHP0HA2AR	P2135	Includes P2135	MTC
3FAHP0HA2AR	P2135	Includes P2135	MTC
4M2CN8H78AK	P2135, P2111, P0302	Includes P2135	
3FAHP0GA1AR	P2135, P2111	Includes P2135	
1FMCU0EG0A	P2135, P0211	Includes P2135	MTC
1FMCU0DG0A	P2135	Includes P2135	MTC
1FMCU0DG5A	P2135, P2111	Includes P2135	SEC
3FAHP0HG8A	P2135	Includes P2135	MTC
1FMCU9EG6A	P2135	Includes P2135	MTC
1FMCU0D72AK	P2135, P2111	Includes P2135	MTC
1FMCU9D72AK	P2135, P2111	Includes P2135	MTC
3FAHP0HA0AR	P2135, P2111	Includes P2135	MTC
1FMCU9DGXA	P2135, P2111	Includes P2135	MTC
1FMCU9DG0A	P2135, P2111	Includes P2135	
3FAHP0HA8AR	P2135, P2111	Includes P2135	
3FAHP0HG9A	P2135	Includes P2135	
3MEHM0JA4A	P2135	Includes P2135	
1FMCU0DG3A	P2135, P2111	Includes P2135	
1FMCU0DG0A	P2111, P2135	Includes P2135	
3FAHP0HG9A	P2135	Includes P2135	
1FMCU0EG7A	P0122, P2111, P2135	Includes P2135	
3FAHP0HA0AR	P2135	Includes P2135	
1FMCU0EG9A	P2135	Includes P2135	
4M2CN8B76AK	P2135	Includes P2135	
1FMCU0E71AK	P2135	Includes P2135	
1FMCU9EG3A	P0505, P2135	Includes P2135	
1FMCU03G09K	P2101, P2111	Excludes P2135	Igarashi
1FMCU49359K	P0222	Excludes P2135	
4M2CU97G69K	P2111	Excludes P2135	Igarashi
4M2CU81G49K	P2111, P2122	Excludes P2135	
1FMCU03G99K	P2134	Excludes P2135	MTC
1FMCU02759K	P2112	Excludes P2135	SEC
1FMCU94G59K	P2112	Excludes P2135	Igarashi
1FMCU03719K	P0301	Excludes P2135	
1FMCU59349K	P0685	Excludes P2135	SEC
1FMCU59399K	P2107	Excludes P2135	SEC
1FMCU49339K	P2111, P1A0C, P0562	Excludes P2135	Igarashi

1FMCU04G89	P2105	Excludes P2135	MTC
4M2CU91G99	P2111, P2112	Excludes P2135	Igarashi
3FAHP0HA2A	P0222	Excludes P2135	
3FAHP0HA2A	P0222	Excludes P2135	
3FAHP0HA7A	P2107	Excludes P2135	
3FAHP0HA3A	P2122, P2127	Excludes P2135	
4M2CU81719K	P2111	Excludes P2135	Igarashi
3FAHP0HA1A	P2106	Excludes P2135	
1FMCU59309K	P1A0C	Excludes P2135	MTC
3FAHP0HG2A	P2107	Excludes P2135	
3FAHP0HA0A	P2107	Excludes P2135	
1FMCU593X9	P0222	Excludes P2135	MTC
3FAHP0HA4A	P0316,P2107	Excludes P2135	MTC
3MEHM0CG3A	P0404	Excludes P2135	MTC
3MEHM0HA9A	P0122	Excludes P2135	
1FMCU0DG8A	P0223, P2101,P2111	Excludes P2135	
1FMCU0DG3A	P0222	Excludes P2135	
3FAHP0HA8A	P2112	Excludes P2135	MTC
3FAHP0HA4A	P0122	Excludes P2135	MTC
3FAHP0HA3A	P1124	Excludes P2135	MTC
3FADP0L35AR	P0122	Excludes P2135	MTC
1FMCU0DGAK	P0122	Excludes P2135	SEC
3FAHP0HA2A	P0222	Excludes P2135	MTC
3FAHP0JA3AR	P1124	Excludes P2135	MTC
3FAHP0HA4A	P2111, P2112	Excludes P2135	MTC
1FMCU0D72A	P2195	Excludes P2135	MTC
1FMCU0EGXA	P0122	Excludes P2135	MTC
3FAHP0HA0A	P2106, P2111	Excludes P2135	MTC
1FMCU0DG3A	P1000	Excludes P2135	MTC
3FAHP0JA0AR	P2195,P1111	Excludes P2135	SEC
1FMCU0DGXA	P1124	Excludes P2135	MTC
1FMCU9EG9A	P0122	Excludes P2135	MTC
1FMCU0EG5A	P2107	Excludes P2135	MTC
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Part Status	ETB Build Date	Build Month	
Via Hole Defect			Omitted No
In-Process MTC			Bld Date
Via Hole Defect	7/31/2009	Jul-09	
In-Process TCR	5/15/2008	May-08	
Capacitor Internal Short	5/14/2008	May-08	
Insufficient PCB Solder	8/28/2008	Aug-08	
Via Hole Defect	6/29/2009	Jun-09	
In-Process SEC	1/15/2009	Jan-09	
In-Process SEC	6/3/2009	Jun-09	
Digital Timing Error	12/3/2008	Dec-08	
In-Process TCR	5/28/2009	May-09	
Via Hole Defect	7/14/2009	Jul-09	
Via Hole Defect	7/10/2009	Jul-09	
Via Hole Defect	7/16/2009	Jul-09	
Via Hole Defect	7/8/2009	Jul-09	
Via Hole Defect	7/28/2009	Jul-09	
Digital Timing Error	1/5/2009	Jan-09	
Via Hole Defect	7/25/2009	Jul-09	
Via Hole Defect	7/9/2009	Jul-09	
Via Hole Defect	7/9/2009	Jul-09	
Via Hole Defect	7/13/2009	Jul-09	
In-Process MTC	7/24/2009	Jul-09	
Via Hole Defect	8/4/2009	Aug-09	
Via Hole Defect	7/20/2009	Jul-09	
Via Hole Defect	8/20/2009	Aug-09	
Via Hole Defect	7/15/2009	Jul-09	
Via Hole Defect	6/30/2009	Jun-09	
Via Hole Defect	8/3/2009	Aug-09	
	8/3/2009	Aug-09	
Via Hole Defect	7/8/2009	Jul-09	
Via Hole Defect	6/19/2009	Jun-09	
Via Hole Defect	7/28/2009	Jul-09	
Via Hole Defect	8/5/2009	Aug-09	
Via Hole Defect	8/6/2009	Aug-09	
Via Hole Defect	8/25/2009	Aug-09	
In-Process MTC			
Via Hole Defect	8/24/2009	Aug-09	
In-Process MTC	39993	Jun-09	
Via Hole Defect	40024	Jul-09	
Via Hole Defect	40031	Aug-09	
In-Process MTC	40036	Aug-09	
In-Process MTC	40016	Jul-09	
Via Hole Defect	8/24/2009	Aug-09	
In-Process MTC	40024	Jul-09	
Via Hole Defect	8/24/2009	Aug-09	
In-Process MTC	40029	Aug-09	
In-Process MTC	8/25/2009	Aug-09	
In-Process MTC	8/26/2009	Aug-09	

In-Process MTC	8/12/2009	Aug-09
In-Process MTC	8/24/2009	Aug-09
In-Process MTC	40012	Jul-09
In-Process MTC	7/31/2009	Jul-09
In-Process MTC	40028	Aug-09
In-Process MTC	8/18/2009	Aug-09
	40021	Jul-09
In-Process MTC	8/6/2009	Aug-09
In-Process MTC	40036	Aug-09
In-Process MTC	8/5/2009	Aug-09
	8/4/2009	Aug-09
	7/8/2009	Jul-09
In-Process MTC	5/21/2009	May-09
	8/18/2009	Aug-09
In-Process MTC	7/15/2009	Jul-09
In-Process MTC	8/7/2009	Aug-09
Via Hole Defect	8/21/2009	Aug-09
	8/8/2009	Aug-09
In-Process MTC	8/5/2009	Aug-09
In-Process MTC	8/5/2009	Aug-09
Via Hole Defect	8/14/2009	Aug-09
In-Process MTC	8/19/2009	Aug-09
In-Process MTC	7/30/2009	Jul-09
In-Process MTC	8/21/2009	Aug-09
In-Process MTC	8/6/2009	Aug-09
In-Process MTC	8/20/2009	Aug-09
In-Process MTC	8/11/2009	Aug-09
	8/6/2009	Aug-09
	7/27/2009	Jul-09
	7/23/2009	Jul-09
	8/20/2009	Aug-09
	8/7/2009	Aug-09
	7/28/2009	Jul-09
	8/3/2009	Aug-09
	7/30/2009	Jul-09
	8/20/2009	Aug-09
	8/4/2009	Aug-09
	8/10/2009	Aug-09
	8/21/2009	Aug-09
	7/29/2009	Jul-09
In-Process Igarashi	6/25/2008	Jun-08
Non-wetting Issue	########	Oct-08
In-Process Igarashi	6/19/2008	Jun-08
Non-wetting Issue	9/13/2008	Sep-08
Insufficient PCB Solder	6/10/2008	Jun-08
Cracked Motor Brush	6/24/2008	Jun-08
In-Process Igarashi	6/10/2009	Jun-09
In-Process SEC	9/12/2008	Sep-08
Mis-Bin	########	Oct-08
Mis-Bin	9/8/2008	Sep-08
In-Process Igarashi	1/17/2009	Jan-09

In-Process MTC	6/16/2008	Jun-08
In-Process Igarashi	2/18/2009	Feb-09
Mis-Bin	2/11/2009	Feb-09
Mis-Bin	2/10/2009	Feb-09
Mis-Bin	3/12/2009	Mar-09
Mis-Bin	2/4/2009	Feb-09
In-Process Igarashi	5/29/2009	May-09
Mis-Bin	7/13/2009	Jul-09
In-Process MTC	9/5/2009	Sep-09
Mis-Bin	1/28/2009	Jan-09
Mis-Bin	2/25/2009	Feb-09
Digital Timing Error	39827	Jan-09
Mis-Bin	39869	Feb-09
Via Hole Defect	39981	Jun-09
TNI	40052	Aug-09
Via Hole Defect	40022	Jul-09
In-Process Melexis	40038	Aug-09
Via Hole Defect	40014	Jul-09
In-Process MTC	39977	Jun-09
In-Process MTC	40044	Aug-09
Via Hole Defect	40050	Aug-09
Via Hole Defect	40030	Aug-09
In-Process MTC	39869	Feb-09
TNI	40022	Jul-09
In-Process MTC	39912	Apr-09
In-Process MTC	40043	Aug-09
In-Process MTC	40020	Jul-09
In-Process MTC	40051	Aug-09
In-Process MTC	40005	Jul-09
In-Process SEC	40045	Aug-09
In-Process MTC	40037	Aug-09
In-Process MTC	40030	Aug-09
In-Process MTC	40024	Jul-09
		Jan-09
		Feb-09
		Mar-09
		Apr-09
		May-09
		Jun-09
		Jul-09
		Aug-09
		Sep-09
		Oct-09
		Nov-09
		Dec-09
		Jan-09
		Feb-09
		Mar-09
		Apr-09
		May-09
		Jun-09

Jul-09
Aug-09
Sep-09
Oct-09
Nov-09
Dec-09

Code Type	Contains P0122/P0222

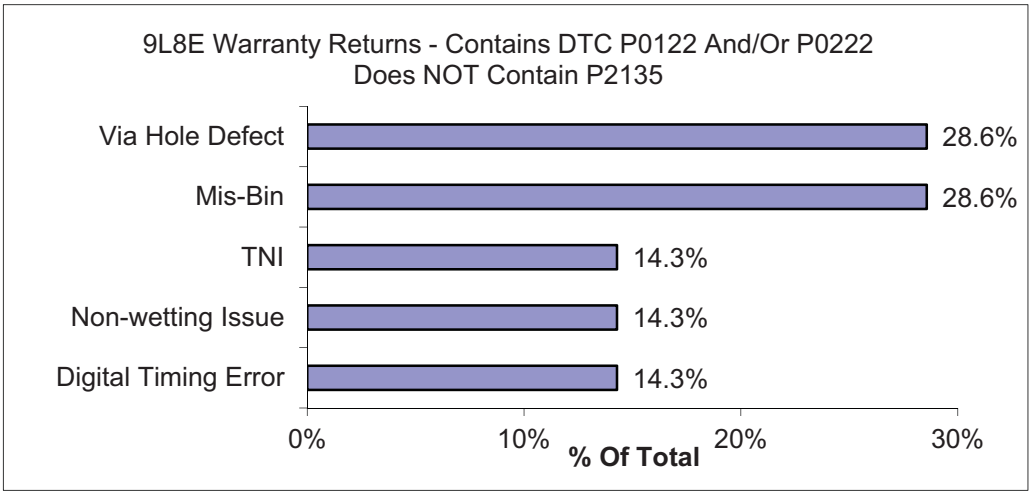
**In-Process **

Count of Part Status (will become Description)	ETC Build month				
Part Status (will become Description)	Oct-08	Jan-09	Feb-09	Aug-09	Grand Total
Digital Timing Error		1			1
Non-wetting Issue	1				1
TNI				1	1
Mis-Bin			2		2
Via Hole Defect				2	2
Grand Total	1	1	2	3	7

Code Type	Other DTC's Excluding P2135

**In-Process **

Count of Part Status (will become Description)	ETC Build month				
Part Status (will become Description)	Jun-08	Sep-08	Oct-08	Jan-09	Feb-09
Cracked Motor Brush	1				
Insufficient PCB Solder	1				
Non-wetting Issue		1			
TNI					
Via Hole Defect					
Mis-Bin		1	1	1	3
Grand Total	2	2	1	1	3

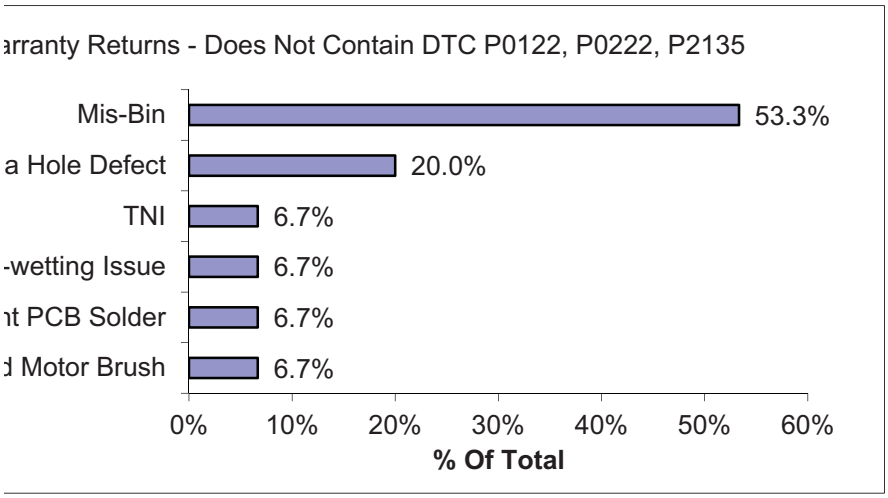


Narranty Returns Omitted

% Of Total
14%
14%
14%
29%
29%

Narranty Returns Omitted

Mar-09	Jun-09	Jul-09	Grand Total	% Of Total
			1	7%
			1	7%
			1	7%
		1	1	7%
	1	2	3	20%
1		1	8	53%
1	1	4	15	



Vin #	Miles	DTC Codes Present	Code Type
1FMCU0D79A		P2111,P2135	Contains P2135
3FAHP0HAXA		P2135	Contains P2135
1FMCU9DG7A		P2135, P2111	Contains P2135
1FMCU03G09	6296	P2101, P2111	Other DTC's
1FMCU03789K	349	P2111P2135P1111	Contains P2135
1FMCU49359K	653	P0222	Contains P0122/P0222
4M2CU97G69K	3	P2111	Other DTC's
4M2CU81G49K	653	P2111, P2122	Other DTC's
1FMCU03749K	5	P2135, P2111	Contains P2135
1FMCU03G99	18	P2134	Other DTC's
1FMCU03G89	9812	P1124, P2135	Contains P2135
3MEHM0JA3A	12	P2135	Contains P2135
1FMCU02759K	19197	P2112	Other DTC's
1FMCU94G59	14	P2112	Other DTC's
1FMCU03719K	526	P0301	Other DTC's
4M2CU39389K	85	P0122, P2111, P2135	Contains P2135
1FMCU93789K	13	P2101, P2135, P0122	Contains P2135
1FMCU59349K	6836	P0685	Other DTC's
1FMCU59399K	54	P2107	Other DTC's
1FMCU49339K	656	P2111, P1A0C, P0562	Other DTC's
1FMCU04G89	17857	P2105	Other DTC's
4M2CU91G99K	10360	P2111, P2112	Other DTC's
1FMCU04729K	5182	P0122, P1128, P2135	Contains P2135
3FAHP0JA7AR	27	P2135	Contains P2135
3FAHP0HA4AR	53	P2135	Contains P2135
3MEHM0HAXA	97	P1124, P2111, P2135	Contains P2135
3FAHP0HA2AR	5783	P0222	Contains P0122/P0222
3FAHP0HA2AR	1030	P0222	Contains P0122/P0222
3FAHP0HA7AR	7279	P2107	Other DTC's
3FAHP0HA3AR	5805	P2122, P2127	Other DTC's
4M2CU81719K	2451	P2111	Other DTC's
3FAHP0HA1AR	341	P2106	Other DTC's
3FAHP0HA9AR	670	P2111, P2135	Contains P2135
1FMCU937X9K	189	P2135	Contains P2135
3FAHP0HA7AR	4	P2135	Contains P2135
1FMCU59309K	18840	P1A0C	Other DTC's
3FAHP0HG2A	18759	P2107	Other DTC's
3FAHP0HA0AR	704	P2107	Other DTC's
1FMCU593X9K	3714	P0222	Contains P0122/P0222
1FMCU93G29	11697	P2111, P2135	Contains P2135
3FAHP0HA4AR	12352	P0316,P2107	Other DTC's
4M2CN8HG7A	11	P2111, P2135	Contains P2135
3MEHM0CG3A	10	P0404	Other DTC's
3FAHP0HA1AR	15586	P0122	Contains P0122/P0222
3MEHM0HA9A	2296	P0122	Contains P0122/P0222
3FADP0L34AR	153	P2135	Contains P2135
3FAHP0HA5AR	423	P2135P2111	Contains P2135
3MEHM0HAXA	356	P2111P2135	Contains P2135
1FMCU0DG8A	50	P0223, P2101,P2111	Other DTC's
3FAHP0HA0AR	647	P0122,P2135	Contains P2135

3FAHP0JA3AR	18	P2135	Contains P2135
3FAHP0HA2A	468	P2135	Contains P2135
3FAHP0HA7A	11	P2111,P2135	Contains P2135
3FAHP0JG6A	7	P2111,P2135	Contains P2135
3FAHP0HA2A	551	P2111,P2135	Contains P2135
1FMCU9DG5A	4	P1124P2135	Contains P2135
1FMCU0DG3A	4	P1124, P2135	Contains P2135
1FMCU0DG3A	4	P0222	Contains P0122/P0222
1FMCU0DG0A	334	P0122, P2111, P2135	Contains P2135
3FAHP0HA6A	669	P2135	Contains P2135
3FAHP0HA8A	1123	P2112	Other DTC's
3FAHP0HA8A	20	P2135, P2111	Contains P2135
3FAHP0HA2A	376	P2135, P2111	Contains P2135
3FAHP0HA4A	1646	P0122	Contains P0122/P0222
3FAHP0HA3A		P1124	Other DTC's
1FMCU9DG8A	9	P2135, P0122, P210, P2111	Contains P2135
3FADP0L35AR	14	P0122	Contains P0122/P0222
1FMCU0DGAK	20	P0122	Contains P0122/P0222
3FAHP0HA8A	764	P2135	Contains P2135
1FMCU0EG1A	131	P2135	Contains P2135
1FMCU0D73A	15	P2111, P2135	Contains P2135
1FMCU9DG6A	20	P2135, P2111	Contains P2135
3FAHP0HA2A	13230	P0222	Contains P0122/P0222
3FAHP0JA3AR	458	P1124	Other DTC's
3FAHP0HA2A	9	P0223, P2101, P2111, P2135	Contains P2135
1FMCU0DGXA	9	P2111, P2135	Contains P2135
4M2CN8HGXA	585	P2135	Contains P2135
1FMCU0DG1A	6	P2111, P2135	Contains P2135
3FADP0L36AR	395	P2135	Contains P2135
1FMCU9DG3A	512	P2135	Contains P2135
3FAHP0JG7A	307	P2135	Contains P2135
1FMCU0DG5A	8	P0122, P2111, P2135	Contains P2135
1FMCU0E77A	29	P2135	Contains P2135
1FMCU0D79A	379	P2111, P2135	Contains P2135
3FAHP0HG3A	55	P2111, P2135	Contains P2135
3FAHP0HA4A	12323	P2111, P2112	Other DTC's
3FAHP0HAXA	348	P2135, P0122, PO223, P2101	Contains P2135
3FAHP0HG9A	4570	P2135	Contains P2135
1FMCU0D72A	328	P2195	Other DTC's
4M2CN9BG2A	113	P0122, P0068	Contains P0122/P0222
1FMCU0C78A	552	P2111, P2135	Contains P2135
3FAHP0HA6A	22	P2135	Contains P2135
1FMCU9EG9A	1278	P2135	Contains P2135
3FAHP0HA6A	28	P2135	Contains P2135
1FMCU0EGXA	95	P0122	Contains P0122/P0222
1FMCU0EGXA	19	P2135	Contains P2135
1FMCU9DG7A	12	P2111, P2135	Contains P2135
3FAHP0HA0A	281	P2106, P2111	Other DTC's
1FMCU0EG3A	2	P2135	Contains P2135
1FMCU0DG5A	386	P2135, P2111, P2106	Contains P2135
1FMCU0DG3A	65	P1000	Other DTC's

1FMCU0DG3AK	1551	P1124, P2111, P2135	Contains P2135
3FADP0L31AR	417	P0122, P0222, P2111, P2135	Contains P2135
1FMCU0DG0AK	572	P0122, P0223, P2111, P2135	Contains P2135
3FAHP0HA2AR	1217	P2135	Contains P2135
3FAHP0JA0AR	26	P2195,P1111	Other DTC's
1FMCU0DGXA	798	P1124	Other DTC's
3FAHP0HA2AR	693	P2135	Contains P2135
4M2CN8H78AK	24	P2135, P2111, P0302	Contains P2135
3FAHP0GA1AR	1697	P2135, P2111	Contains P2135
1FMCU0EG0AK	220	P2135, P0211	Contains P2135
1FMCU0DG0AK	197	P2135	Contains P2135
1FMCU0DG5AK	1779	P2135, P2111	Contains P2135
3FAHP0HG8AR	2753	P2135	Contains P2135
3FAHP0HA1AR	16374	P0222	Contains P0122/P0222
1FMCU9EG6AK	345	P2135	Contains P2135
1FMCU0D72AK	1011	P2135, P2111	Contains P2135
1FMCU9EG9AK	242	P0122	Contains P0122/P0222
1FMCU9D72AK	1483	P2135, P2111	Contains P2135
3FAHP0HA0AR	948	P2135, P2111	Contains P2135
1FMCU9DGXA	401	P2135, P2111	Contains P2135
1FMCU9DG0AK	695	P2135, P2111	Contains P2135
3FAHP0HA8AR	3303	P2135, P2111	Contains P2135
1FMCU0EG5AK	315	P2107	Other DTC's
3FAHP0HA9AR	3720	P2107, P2111	Other DTC's
3FAHP0HG9AR	752	P2135	Contains P2135
3FADP0L38AR	215	P0401	Other DTC's
3FAHP0GA7AR	2425	P1124	Other DTC's
1FMCU0EG2AK	291	P2111	Other DTC's
1FMCU0D71AK	87	P2111	Other DTC's
3MEHM0JA4AR	500	P2135	Contains P2135
1FMCU0DG3AK	2408	P2135, P2111	Contains P2135
3FADP0L36AR	1016	P2112	Other DTC's
3FAHP0JA2AR	959	P0505, P1124, P2101	Other DTC's
3FAHP0HA9AR	10542	P0222	Contains P0122/P0222
1FMCU0DG0AK	73	P2111, P2135	Contains P2135
3FAHP0HG9AR	1805	P2135	Contains P2135
3MEHM0HAXA	10967	P0122, P0222,	Contains P0122/P0222
3FAHP0JG0AR	3293	P2107	Other DTC's
1FMCU0D78AK	27	P0122	Contains P0122/P0222
1FMCU0EG7AK	1349	P0122, P2111, P2135	Contains P2135
3FAHP0HA0AR	474	P2135	Contains P2135
1FMCU0EG9AK	184	P2135	Contains P2135
4M2CN8B76AK	637	P2135	Contains P2135
1FMCU0E71AK	61	P2135	Contains P2135
1FMCU9EG3AK	1453	P0505, P2135	Contains P2135
1FMCU9EG3AK	1453	P0505, P2135	Contains P2135
3FAHP0HG6AR	959	P2135	Contains P2135
3FADP0L32AR	11	P2135	Contains P2135
1FMCU0D72AK	2028	P2111, P2135	Contains P2135
3FAHP0HA8AR	1394	P2111, P2135, U0415	Contains P2135
3FAHP0JG3AR	31	P2111, P2135	Contains P2135

1FMCU0DG0A	866	P2111, P2135	Contains P2135
3FAHP0HA3AR	102	PA55 ??	Other DTC's
1FMCU9DG0A	3590	P2111, P2135	Contains P2135
1FMCU0DG0A	99	P2135	Contains P2135
3FAHP0JA9AR	6830	P0222	Contains P0122/P0222
1FMCU9DG9A	71	P2111, P2135	Contains P2135
3FAHP0HA5AR	13	P115E	Other DTC's

M/Y	ETB Build Date	TPS Date (	Part Status (will become Description)
2010		223/09	Via Hole Defect
2010		206/09	In-Process MTC
2010	7/31/2009	205/09	Via Hole Defect
2009	6/25/2008		In-Process Igarashi
2009	5/15/2008	1C134, 92/	In-Process TCR
2009	10/22/2008	1A141, 20⁴	Non-wetting Issue
2009	6/19/2008	39565	In-Process Igarashi
2009	9/13/2008	39639	Non-wetting Issue
2009	5/14/2008		Capacitor Internal Short
2009	6/10/2008		Insufficient PCB Solder
2009	8/28/2008		Insufficient PCB Solder
2010	6/29/2009	173/ 09	Via Hole Defect
2009	6/24/2008	115/ 08	Cracked Motor Brush
2009	6/10/2009	144/ 09	In-Process Igarashi
2009	9/12/2008	189/ 08	In-Process SEC
2009	1/15/2009	288/ 08	In-Process SEC
2009	6/3/2009	146/ 09	In-Process SEC
2009	10/23/2008	211/ 08	Mis-Bin
2009	9/8/2008	179/ 08	Mis-Bin
2009	1/17/2009	269/ 08	In-Process Igarashi
2009	6/16/2008	105/ 08	In-Process MTC
2009	2/18/2009	352/ 08	In-Process Igarashi
2009	12/3/2008	256/ 08	Digital Timing Error
2010	5/28/2009	135/ 09	In-Process TCR
2010	7/14/2009	189/ 09	Via Hole Defect
2010	7/10/2009	182/ 09	Via Hole Defect
2010	2/11/2009	347/ 08	Mis-Bin
2010	2/10/2009	006/ 09	Mis-Bin
2010	3/12/2009	024/ 09	Mis-Bin
2010	2/4/2009	173/ 08	Mis-Bin
2009	5/29/2009	136/ 09	In-Process Igarashi
2010	7/13/2009	188/ 09	Mis-Bin
2010	7/16/2009	189/ 09	Via Hole Defect
2009	7/8/2009	179/ 09	Via Hole Defect
2010	7/28/2009	199/ 09	Via Hole Defect
2009	9/5/2009	182/ 08	In-Process MTC
2010	1/28/2009	284/ 08	Mis-Bin
2010	2/25/2009	358/ 08	Mis-Bin
2009	1/14/2009	261/ 08	Digital Timing Error
2009	1/5/2009	269/ 08	Digital Timing Error
2010	2/25/2009	357/ 08	Mis-Bin
2010	7/25/2009	194/ 09	Via Hole Defect
2010	6/17/2009	159/ 09	Via Hole Defect
2010	2/10/2009	007/ 09	
2010	8/27/2009	127/ 08	TNI
2010	7/9/2009	179/ 09	Via Hole Defect
2010	7/9/2009	183/ 09	Via Hole Defect
2010	7/13/2009	187/ 09	Via Hole Defect
2010	7/28/2009	201/ 09	Via Hole Defect
2010	7/24/2009	196/ 09	In-Process MTC

2010	8/4/2009	206/ 09	Via Hole Defect
2010	7/20/2009	193/ 09	Via Hole Defect
2010	8/20/2009	222/ 09	Via Hole Defect
2010	7/15/2009	191/ 09	Via Hole Defect
2010	6/30/2009	172/ 09	Via Hole Defect
2010	8/3/2009	207/ 09	Via Hole Defect
2010	8/3/2009	207/ 09	
2010	8/13/2009	214/ 09	In-Process Melexis
2010	7/8/2009	181/ 09	Via Hole Defect
2010	6/19/2009	164/ 09	Via Hole Defect
2010	7/20/2009	193/ 09	Via Hole Defect
2010	7/28/2009	199/ 09	Via Hole Defect
2010	8/5/2009	206/ 09	Via Hole Defect
2010	6/13/2009	171/ 09	In-Process MTC
2010	8/19/2009	221/09	In-Process MTC
2010	8/6/2009	206/ 09	Via Hole Defect
2010	8/25/2009	222/ 09	Via Hole Defect
FALSE	8/5/2009	207/ 09	Via Hole Defect
2010	8/25/2009	225/09	Via Hole Defect
2010		179/ 09	In-Process MTC
2010	8/24/2009	220/ 09	Via Hole Defect
2010	6/29/2009	173/ 09	In-Process MTC
2010	2/25/2009	355/ 08	In-Process MTC
2010	7/28/2009	201/ 09	TNI
2010	7/30/2009	205/ 09	Via Hole Defect
2010	8/6/2009	207/ 09	Via Hole Defect
2010	8/11/2009	217/ 09	In-Process MTC
2010	7/22/2009	196/ 09	In-Process MTC
2010	8/24/2009	218/ 09	Via Hole Defect
2010	7/30/2009	199/ 09	In-Process MTC
2010	8/24/2009	222/ 09	Via Hole Defect
2010	8/4/2009	204/ 09	In-Process MTC
2010	8/25/2009	224/ 09	In-Process MTC
2010	8/26/2009	222/ 09	In-Process MTC
2010	8/12/2009	217/ 09	In-Process MTC
2010	4/9/2009	034/ 09	In-Process MTC
2010	8/24/2009	222/ 09	In-Process MTC
2010	7/18/2009	191/ 09	In-Process MTC
2010	8/18/2009	218/ 09	In-Process MTC
2010	8/4/2009	204/ 09	
2010	7/31/2009	205/ 09	In-Process MTC
2010	8/3/2009	207/ 09	In-Process MTC
2010	8/18/2009	218/ 09	In-Process MTC
2010	7/27/2009	192/ 09	In-Process SEC
2010	7/26/2009	199/ 09	In-Process MTC
2010	8/6/2009	208/ 09	In-Process MTC
2010	8/11/2009	216/ 09	In-Process MTC
2010	8/26/2009	224/ 09	In-Process MTC
2010	8/5/2009	206/ 09	In-Process MTC
2010	8/4/2009	204/ 09	
2010	7/11/2009	205/ 09	In-Process MTC

2010	7/8/2009	179/ 09	In-Process MTC
2010	5/21/2009	134/ 09	In-Process MTC
2010	8/18/2009	220/ 09	
2010	7/15/2009	188/ 09	In-Process MTC
2010	8/20/2009	224/ 09	In-Process SEC
2010	8/12/2009	217/ 09	In-Process MTC
2010	8/7/2009	212/ 09	In-Process MTC
2010	8/21/2009	225/ 09	Via Hole Defect
2010	8/8/2009	213/ 09	In-Process MTC
2010	8/5/2009	207/ 09	In-Process MTC
2010	8/5/2009	206/ 09	In-Process MTC
2010	8/14/2009	219/ 09	Via Hole Defect
2010	8/19/2009	222/ 09	In-Process MTC
2010	5/7/2009	115/ 09	
2010	7/30/2009	206/ 09	In-Process MTC
2010	8/21/2009	223/ 09	In-Process MTC
2010	8/5/2009	207/ 09	In-Process MTC
2010	8/6/2009	207/ 09	In-Process MTC
2010	8/20/2009	222/ 09	In-Process MTC
2010	8/11/2009	216/ 09	In-Process MTC
2010	8/6/2009	206/ 09	In-Process SEC
2010	7/27/2009	192/ 09	In-Process SEC
2010	7/30/2009	200/ 09	In-Process MTC
2010	2/26/2009	360/ 08	In-Process MTC
2010	7/23/2009	196/ 09	
2010	7/30/2009	205/ 09	
2010	8/8/2009	213/ 09	
2010	7/28/2009	201/ 09	
2010	8/3/2009	206/ 09	
2010	8/20/2009	223/ 09	
2010	8/7/2009	211/ 09	
2010	8/21/2009	226/ 09	
2010	7/27/2009	192/ 09	
2010	4/2/2009	019/ 09	
2010	7/28/2009	201/ 09	
2010	8/3/2009	203/ 09	
2010	2/11/2009	340/ 08	
2010	2/28/2009	045/ 09	
2010	8/20/2009	221/ 09	
2010	7/30/2009	206/ 09	
2010	8/20/2009	224/ 09	
2010	8/4/2009	204/ 09	
2010	8/10/2009	212/ 09	
2010	8/21/2009	225/ 09	
2010	7/29/2009	200/ 09	
2010	7/29/2009	200/ 09	
2010	7/24/2009	194/ 09	
2010	5/14/2009	121/ 09	
2010	8/19/2009	222/ 09	
2010	8/18/2009	218/ 09	
2010	8/19/2009	223/ 09	

2010	7/8/2009	180/ 09	
2010	8/20/2009	224/ 09	
2010	8/12/2009	205/ 09	
2010	8/4/2009	205/ 09	
2010	2/25/2009	357/ 08	
2010	10/8/2009	263/ 09	In-Process Melexis
2010	11/6/2009	300/ 09	In-Process MTC

From: Wagner, Glen (G.C.) <gwagner1@ford.com>
Sent: Friday, January 18, 2013 5:35 PM
To: Bandoske, Pete (P.F.); Balzer, Stacy (S.L.); Ricks, Kevin (K.J.)
Cc: Harmon, Derek (D.M.)
Subject: QSF Timing - Escape/Fusion No DTC w/ Drop in RPM

FYI - QSF 10420120025 (Escape/Fusion No DTC w/ Drop in RPM) will become Red on Feb 2 however it will not be closed until April 3.

As reported in our Thursday QSF/Emerging Review meetings, PD & SEO co-developed a TSB that met QSF timing however in the past week concerns surfaced regarding this solution.

Today the team agreed to close the QSF two months late instead of closing it sooner with a lower quality solution. Fortunately the vehicle failure occurs primarily in warm weather so the delay will have a minimal negative impact on dealers and customers

Our solution requires release of:

1) An IDS Tool function that will:

a) Interrogate PCM data that was stored at the time of the failure eliminating the need for dealerships to duplicate this very intermittent failure.

b) Provide technicians with repair direction.

c) Provide engineering with on-going feedback data regarding the failure.

2) A supporting TSB that advises Technicians when and how to utilize this new IDS function.

The April 3 timing is a stretch objective however we have high confidence in completing it on time.

I also want to recognize Steve Zilinskas and his team for going far above and beyond to enable this creative solution.

Glen Wagner
FCSD Commodity Program Manager, Fuel / Exhaust / Air Induction / Cooling / Controls / Calibration / Gas Engine Phone 313 32-26768

From: Langley, Scott (C.S.)
Sent: Tuesday, June 16, 2009 4:42 PM
To: 'O'Neill, Daniel P'
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: R/1000 for 9L8E

Dan,
I just did some quick calc's of total claims vs total sales. So, not a true plot by TIS.
I think Mike was pursuing the updated R/1000 stack chart. Mike?

'09 Esc/Mar: 115 claims/ 150,271 veh's sold = 0.76R/1000

'10 Fusion: 11 claims/ 25k sold (pure estimate) = 0.44 R/1000
(we might actually have 12 claims on this per Mike S. as of today)

Total = 126 claims/175,271 = 0.72 R/1000.

Regardless of method, it's too high.
There's more focus here on immediate claims than R/1000. I do like to have normalized data, though. It's just that the 3MIS+ R/1000 data really lags production.

There is a lot of interest in the projection of THIS non-contacting ETB vs. our contacting ETBs… so, that needs to be normalized. As you would expect, that concern is based on our strategy to switch to non-contacting on the BTP ETBs. When they look at this one, they aren't so comfortable.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Friday, August 14, 2009 12:27 AM
To: 'O'Neill, Daniel P'; Chabon, Michael (W.)
Cc: Godoy, Arquimedes ; Salvador, Nicte ; Zuniga, Ruben ; Parkinson, Tim (T.M.); Davis, Andrae (A.L.)
Subject: RE: Ford ETB/ TPS PCB Quality Issue - Contamination of vias hole

8D feedback
I was pulled away from our meeting today, so I apologize if this was covered in there...

We have been talking about 2111 and 2135, but I see the the "3rd ETB Return" shows a P0122... TP-A (TP1) circuit Low. I would actually consider that to be the "primary code." TP signal drops out low and that causes 2111 and 2135. Can we please find out ALL of the P-codes for each of the returns from the VO plant? We need to be very specific. It's critical for the risk evaluation. Let me know if you'd like our help to chase that down.

Do we have any warranty returns with a P0122 that have not yet been analyzed or were analyzed and have not firmly been determined to be the Chip timing error... on the chip removed from the board?

Page 6... PN shows 9W7E
Step 1 and Step 2 not specifically called out... starts with "Step 3" on page 6.

Please provide the full description of the "Melexis Application Test." within the 8D... Overclock Test, 2000 msec, 25 MHz, 2.9 V ?

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: O'Neill, Daniel P [mailto:daniel.p.o.neill@delphi.com]
Sent: Thursday, August 13, 2009 7:12 PM
To: Langley, Scott (C.S.); jgburger2003@yahoo.com; Chabon, Michael (W.)
Cc: Godoy, Arquimedes ; Salvador, Nicte ; Zuniga, Ruben
Subject: Ford ETB/ TPS PCB Quality Issue - Contamination of vias hole
Importance: High

Please find attached a copy of the 8D.

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems

Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623
Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: Zuniga, Ruben
Sent: Thursday, August 13, 2009 6:49 PM
To: O'Neill, Daniel P
Cc: Christian, James M
Subject: Ford ETB/ TPS Quality issues...
Importance: High

Rubén Zúñiga
GM Air Meter & Ford ETB
Customer Contact & Quality Engineer
Delphi Powertrain Systems
Plant 35 Cd. Juarez, Chihuahua, Mexico
USA Work Ph. (915) 612-2804
Mex. Work Ph. (656) 649-2804
USA Pager # (915) 983-6515
USA Fax # (915) 612-2998
e-mail: ruben.zuniga@delphi.com

From: Pulay, Kirk (K.)
Sent: Tuesday, January 18, 2011 4:55 PM
To: Sims, Ivan (I.D.)
Subject: RE: 11MY CD3 P2110-P2111

I performed an APR search a few weeks ago - I believe all 3.5L PFI apps are Gen 2.0 SW and stuck throttle logic will be the same, including error thresholds. This might be an interesting one.

Kirk

From: Sims, Ivan (I.D.)
Sent: Tuesday, January 18, 2011 4:48 PM
To: Pulay, Kirk (K.)
Subject: RE: 11MY CD3 P2110-P2111

Yes, sorry, I'm moving too fast today.

IVAN D. SIMS
Hardware/Controls Interface Section
Component Design C Department, LGDEE
Phone: 313-805-9971

From: Pulay, Kirk (K.)
Sent: Tuesday, January 18, 2011 4:46 PM
To: Sims, Ivan (I.D.)
Subject: RE: 11MY CD3 P2110-P2111

I'm already on this chain of notes. Scott L. warned me about this one a few weeks ago.

Kirk Pulay
Component C - Hardware/Controls Interface
Building 1, 2nd Floor, Cubical 12B098
Phone: (313) 805-9370
Fax: (313) 248-9026

From: Sims, Ivan (I.D.)
Sent: Tuesday, January 18, 2011 3:40 PM
To: Pulay, Kirk (K.)
Subject: FW: 11MY CD3 P2110-P2111

IVAN D. SIMS
Hardware/Controls Interface Section
Component Design C Department, LGDEE
Phone: 313-805-9971

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:40 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.); Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I just spoke with Scot… Kevin Oyafuso will be lead contact to the dealers as he's familiar with stepping dealers through pulling ETC FF data.
Please don't make separate inquiries to the dealer.

I will set up a meeting cadence to review our approach on these vehicles and to review any data.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:25 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Thanks Scot.

Yes, please… the folks in the CC: line, if that's not too many.
I expect Shapardanis, myself and Soper to take the lead when we do find one, if that makes sense to everyone.

And note, the concern should cover codes P2111 & P2112.
P2112 covers the majority of post 8/3 claims.
P2104 is a symptom… FMEM mode, but wouldn't hurt to include it.
Some claims only list that one.. I assume because they just stopped at first code.
I don't see any P2110 codes in our post 8/3 claims, but wouldn't hurt to include it.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:04 PM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.); Dixon, Mark (M.R.)
Subject: FW: 11MY CD3 P2110-P2111
Importance: High

Any other Engineering contacts you want included in the Find a Vehicle(FAV) request ?

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:03 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I'm familiar with the outgassing TSB. According to AWS data we are seeing ETB replacements on 3.5L >8/3/10 build date in TSB 10-21-6

<< File: 11MY_CD3_ETB-DTCs.xls >>

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Tuesday, January 18, 2011 2:49 PM
To: McDonagh, Scot (S.M.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

Scot,

We already have a TSB to cover some of these issues on 2011 CD3XX. Is there an Specific TGW Built date range that your are looking for?

<< File: tsb10-21-06[1].pdf >>

ETB Gasket Failure.

Regards,

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(91-313)322-7062)

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 2:42 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)

Subject: 11MY CD3 P2110-P2111
Importance: High

Hi Jose- Need to initiate an FAV for 2011MY CD3 3.5L with DTC P2110 And/Or P2111. ETB returns to date are TNI/NPF. Engineering management would like to investigate further. Please route the FAV to Kevin Oyafuso. Let me know if you need more detail. Thanks

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Arbanas, Kelly (K.M.)
Sent: Thursday, January 20, 2011 12:05 PM
To: Pulay, Kirk (K.)
Subject: RE: 11MY CD3 P2110-P2111

Hmm, I can't think of why the 3.5L would be worse than others. The Gen4 stuck throttle diagnostic software does have some additional robustness added. Maybe that's the difference?

Regards,
Kelly M. Arbanas
ETC Monitor Calibration
(313)805-7149

From: Pulay, Kirk (K.)
Sent: Tuesday, January 18, 2011 4:40 PM
To: Arbanas, Kelly (K.M.)
Subject: FW: 11MY CD3 P2110-P2111

Heard about this one yet? RFR stuck throttle codes are much higher than other apps with same throttle. I think most 3.5 apps are still Gen 2.0 ETC.

Kirk Pulay
Component C - Hardware/Controls Interface
Building 1, 2nd Floor, Cubical 12B098
Phone: (313) 805-9370
Fax: (313) 248-9026

From: Dixon, Mark (M.R.)
Sent: Tuesday, January 18, 2011 3:40 PM
To: Langley, Scott (C.S.); McDonagh, Scot (S.M.); Boerger, Jim (J.G.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Looks like this is by far our #1 ETC issue since the silicone gasket outgassing fix. Attached are are claims counts.

<< File: Top ETC Codes.ppt >>

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:25 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Thanks Scot.

Yes, please… the folks in the CC: line, if that's not too many.
I expect Shapardanis, myself and Soper to take the lead when we do find one, if that makes sense to everyone.

And note, the concern should cover codes P2111 & P2112.
P2112 covers the majority of post 8/3 claims.
P2104 is a symptom… FMEM mode, but wouldn't hurt to include it.
Some claims only list that one.. I assume because they just stopped at first code.

I don't see any P2110 codes in our post 8/3 claims, but wouldn't hurt to include it.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:04 PM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.); Dixon, Mark (M.R.)
Subject: FW: 11MY CD3 P2110-P2111
Importance: High

Any other Engineering contacts you want included in the Find a Vehicle(FAV) request ?

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:03 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I'm familiar with the outgassing TSB. According to AWS data we are seeing ETB replacements on 3.5L >8/3/10 build date in TSB 10-21-6

<< File: 11MY_CD3_ETB-DTCs.xls >>

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Tuesday, January 18, 2011 2:49 PM
To: McDonagh, Scot (S.M.)
Cc: Oyafuso, Kevin (K.G.)

Subject: RE: 11MY CD3 P2110-P2111

Scot,

We already have a TSB to cover some of these issues on 2011 CD3XX. Is there an Specific TGW Built date range that your are looking for?

<< File: tsb10-21-06[1].pdf >>

ETB Gasket Failure.

Regards,

José Chacón

Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(91-313)322-7062)

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 2:42 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: 11MY CD3 P2110-P2111
Importance: High

Hi Jose- Need to initiate an FAV for 2011MY CD3 3.5L with DTC P2110 And/Or P2111. ETB returns to date are TNI/NPF. Engineering management would like to investigate further. Please route the FAV to Kevin Oyafuso. Let me know if you need more detail. Thanks

Scot G. McDonagh

PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Langley, Scott (C.S.)
Sent: Monday, October 01, 2012 1:33 PM
To: Selthofer, Adam (A.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.); Pulay, Kirk (K.)
Cc: Hwang, Sheng-Jiaw (S.J.); Chabon, Michael (W.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

Categories: Red Category

LOTS of data!

It could be related to SA issue… note, we've known that issue effects NA too. BUT, it's usually P2111/2 DTC.
And, we have a couple of experiences with "stalls-no codes" here in NA where the customer came back in for a vapor management valve or similar.
But, note that the FCSD concern engineer, Derek Harmon, did have a direct personal experience where a TB issue caused a stall with no DTC.

If it's cleaning that's needed, it would be evident in checking the ETCTRIM PID.

Now, I'm going to put my head back in the ignition sand pile!

Sincerely,

Scott Langley
Ignition PD Supervisor - Component C
& Rawsonville Resident Engineer (for Engine Components)
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Selthofer, Adam (A.)
Sent: Monday, October 01, 2012 1:27 PM
To: Davis, Andrae (A.L.); Shapardanis, Michael (M.S.); Langley, Scott (C.S.); Pulay, Kirk (K.)
Subject: FW: 2.5L/3.0L loss of RPM- No Codes

Do you guys have any data around higher mileage 3.0L ETB returns? FCSD is wanting to open a QSF because of Hotline call volume for drivability concerns with no codes. Any chance it's related to the South America stuff? Any other ideas? Thank you

---

From: Osepchook, William (W.R.)
Sent: Monday, October 01, 2012 11:11 AM
To: Harmon, Derek (D.M.)
Cc: Selthofer, Adam (A.); Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

<< OLE Object: Unknown >>

From: Osepchook, William (W.R.)
Sent: Monday, October 01, 2012 10:32 AM
To: Harmon, Derek (D.M.)
Cc: Selthofer, Adam (A.); Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

Higher mileage seems to be the common denominator. Claims increase as mileage increases.

Clean them?

<< OLE Object: Minitab Graph >>

<< OLE Object: Minitab Graph >>

From: Harmon, Derek (D.M.)
Sent: Monday, October 01, 2012 9:25 AM
To: Osepchook, William (W.R.)
Subject: 2.5L/3.0L loss of RPM

<< File: 2.5L-3.0L no DTC stall.xlsx >>

Derek M. Harmon
Ford Customer Service Division
Powertrain Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: Harmon, Derek (D.M.)
Sent: Tuesday, October 02, 2012 3:41 PM
To: Shapardanis, Michael (M.S.); Osepchook, William (W.R.); Hwang, Sheng-Jiaw (S.J.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

Those VIN's were gathered using GCQIS and I bounced those VIN's off AWS to see if the customer complained of a stall after the last complaint. The customer probably complained to the dealership about the problem at 63,978 miles and the dealership drove it to 64,198 trying to duplicate the problem.

Derek M. Harmon
Ford Customer Service Division
Powertrain Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: Shapardanis, Michael (M.S.)
Sent: Tuesday, October 02, 2012 3:25 PM
To: Osepchook, William (W.R.); Hwang, Sheng-Jiaw (S.J.)
Cc: Harmon, Derek (D.M.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

Bill,

Most of these VIN's with the mileage shown do not show up in the AWS Claim Detail Report, an example is VIN 1FMCU94G79K[redacted] it does not have a claim detal report that matches the 63978 miles on the matrix. The claim detail reports are there for 64198 and 61492 miles.

What database was used to generate the matrix?

Mike Shapardanis
V- Engine Engineering
Air Metering
Ford Motor Company
Cell: (313) 805-8801
Email: mshapard@ford.com

From: Osepchook, William (W.R.)
Sent: Tuesday, October 02, 2012 8:53 AM
To: Shapardanis, Michael (M.S.); Hwang, Sheng-Jiaw (S.J.)
Subject: FW: 2.5L/3.0L loss of RPM- No Codes

<< File: Copy of 2 5L-3 0L no DTC stall.xlsx >>

From: Osepchook, William (W.R.)
Sent: Monday, October 01, 2012 10:32 AM

To: Harmon, Derek (D.M.)
Cc: Selthofer, Adam (A.); Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

Higher mileage seems to be the common denominator. Claims increase as mileage increases.

Clean them?
<< OLE Object: Unknown >>

<< OLE Object: Unknown >>

<< OLE Object: Unknown >>

From: Harmon, Derek (D.M.)
Sent: Monday, October 01, 2012 9:25 AM
To: Osepchook, William (W.R.)
Subject: 2.5L/3.0L loss of RPM

<< File: 2.5L-3.0L no DTC stall.xlsx >>

Derek M. Harmon
Ford Customer Service Division
Powertrain Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: Shapardanis, Michael (M.S.)
Sent: Friday, January 18, 2013 2:25 PM
To: Londy, George (G.L.); Hwang, Sheng-Jiaw (S.J.)
Cc: Fuher, Michael (M.J.)
Subject: RE: 2010 CALIFORNIA 30L FUSION-MILAN THROTTLE BODY PART ANALYSIS

George,
The response to CARB looks good and we will keep you updated on any future service actions.

Mike Shapardanis
Component C Current Quality
Air Metering
Ford Motor Company Building 1
Cell (313) 805- 8801
Email: mshapard@ford.com

From: Londy, George (G.L.)
Sent: Friday, January 18, 2013 1:39 PM
To: Shapardanis, Michael (M.S.); Hwang, Sheng-Jiaw (S.J.)
Cc: Fuher, Michael (M.J.)
Subject: RE: 2010 CALIFORNIA 30L FUSION-MILAN THROTTLE BODY PART ANALYSIS

Mike/Joe,
I've added some information to our response to the CARB on the 2010 3.0L Fusion/Milan Throttle Body replacements. Here is what we would like say;

-Regarding the Throttle Body on the 2010 3.0L Fusion and Milan passenger cars, we are still in the process of an in depth analysis of parts that passed testing when returned from California. The current results show that 3 parts pass and 12 parts fail due a high resistance spot on the throttle body motor commutator. The root cause of the high resistance spot on the throttle body motor commutator is ongoing and corrective actions are being developed to prevent the high resistance spots from occurring. Depending on what throttle angle is commanded by the driver and how fast the high resistance spot is passed determines what action the vehicles diagnostic systems take. The wrench light may be illuminated, the MIL may be illuminated, or the vehicle may enter the limp home mode and inform the vehicle operator the service is required. Based on this latest test data we anticipate that an EIR would be required for the 3rd quarter of 2012 (due March 2013).

Is all this correct? Any more test data?

Regards,
George Londy
Vehicle Environmental Engineering
Compliance & Reporting Dept.
Ford Motor Company
3W-200 Cube 3BL05, Allen Park Test Lab (APTL)
313-32-23049

From: Londy, George (G.L.)
Sent: Monday, January 14, 2013 10:16 AM
To: Shapardanis, Michael (M.S.); Hwang, Sheng-Jiaw (S.J.)
Cc: Fuher, Michael (M.J.)
Subject: 2010 CALIFORNIA 30L FUSION-MILAN THROTTLE BODY PART ANALYSIS

Mike/Joe,
Can you look over the part analysis description (attached) I have put together to answer the California ARB questions on the 3.0L Fusion/Milan throttle body replacements?

Do you have any updates to the testing?

Also, can you give me the VIN and claim dates for the parts you have investigated? Thanks.

Regards,
George Londy
Vehicle Environmental Engineering
Compliance & Reporting Dept.
Ford Motor Company
3W-200 Cube 3BL05, Allen Park Test Lab (APTL)
313-32-23049

<< File: 10-FusMln-TB-Anlyss-R00.docx >>

From: Bos, Ed (E.A.)
Sent: Friday, June 26, 2009 3:39 PM
To: Langley, Scott (C.S.)
Subject: RE: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

Getting a little deep. I think this is beyond the capability of a technician to be messing around with at the dealership. Is there a precedent for this that you know of?

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Thursday, June 25, 2009 4:33 PM
To: Bos, Ed (E.A.)
Subject: RE: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

They're looking at the diagnosis at the dealership... try to confirm conclusively that it is the ETB.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bos, Ed (E.A.)
Sent: Wednesday, June 24, 2009 1:49 PM
To: Langley, Scott (C.S.)
Subject: RE: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

Scott,

The answer to your diagnostics question of a few days ago to Kirk and I is below... If Delphi was screening TPS with locked asics as indicated below, then there is a possibility for a screening test here within Ford.

Why would we need this capability?

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Wednesday, June 24, 2009 1:39 PM
To: Boerger, Jim (J.G.)
Cc: Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Chabon, Michael (W.); O'Neill, Daniel P; Shapardanis, Michael (M.S.)
Subject: FW: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

Jim,
We're going to need some help from the two Engine plants and VO if we need to nail down the vehicle clean date.
Let me know if I need to chase that, but I suspect JD has better info.

Based on ETB build dates...

ICA = ETB build date of 5/27/09
100% screening of parts built with the PVD1 chip.

PCA = Estimated ETB build date of ~7/6... JD had a date of 7/10 at VO. That's going to be close, but probably not that far off!
PCA = 100% usage of parts built with the PVD2 chip.
Delphi did switch back into PVD2 yesterday afternoon, but won't sustain that in order to maintain supply to engine. They will switch back into PVD1 until about 7/6.
(note, they will continue the screening check on the PVD2 parts.)

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Rosales, Martin [mailto:martin.rosales@delphi.com]
Sent: Tuesday, June 23, 2009 7:02 PM
To: Langley, Scott (C.S.); O'Neill, Daniel P
Subject: RE: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

Scott: I hope the following information answers your questions:

First: we only screened engines from CHEP; a total of 986 engines were screened using the Melexis revised software and zero defects found.

Based on conversation with PCL, still 923 TPS's pending to be received from Igarashi to complete the total quantity of 20K approved by the Ford alert.
Becky Chavez; Delphi PCL Manager still investigating when parts is expecting to arrive at El Paso, we believe if the parts arrive late next week and produce all remaining PVD1's, I estimate that the 100% clean point for ONLY PVD2 would be July 6th. .

Should you have any questions or comments please do not hesitate to let me know

Martin Rosales
Delphi Powertrain- Juarez
Quality/SQE Superintendent
mobile phone 52-1-656-311-4909
office phone (Mex) 656-649-2833
(USA) 915-612-2833
email:martin.rosales@delphi.com
VME node 5216442833

From: Langley, Scott (C.S.) [mailto:slangle1@ford.com]
Sent: Tuesday, June 23, 2009 2:28 PM
To: O'Neill, Daniel P; Rosales, Martin
Subject: FW: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

Dan, Martin,

Need some clarification of the Effective date for Screening of PVD1's… we're clear on date at Delphi, not so clear on what got screened on engines.

Need some estimate of the effective date for the PCA => utilization of PVD2 parts only. Estimate of when we'll make the switch 100%.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, June 23, 2009 4:26 PM
To: Boerger, Jim (J.G.)
Subject: RE: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

The BSAQ states 5/19 for engines …. Engines built and shipped on that date… that's based on screening engines at Engine plant.

Need to clarify whether that's both Engine Plants or not.

The ICA for Delphi ETB build date is 5/27/09…. That's based on a screening test of PVD1 parts at Delphi.

PCA = utilize PVD2 chips only.
The PCA Timing is still TBD based on my contacts at Delphi. The plant personnel may have better dates.
But, my contact is going to try to identify that day to change over 100%.
They're using PVD2's today, but the flow through the pipeline is not large enough for this to be the 100% clean date.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Boerger, Jim (J.G.)
Sent: Tuesday, June 23, 2009 2:16 PM
To: Langley, Scott (C.S.)
Subject: FW: 2010 CD3 Early Claims Binning, Follow Up on note from CNE to Barb

I just talked to J D Shanahan on this - I told him I would verify the 6/14 ICA data prior to his meeting with Derrick Kuzak tomorrow … Jim

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

****

**********USMITRY-MX05**********

From: Langley, Scott (C.S.)
Sent: Thursday, June 25, 2009 11:27 AM
To: 'O'Neill, Daniel P'
Cc: Rose, John A; Parkinson, Tim (T.M.); Cook, Dale K; Davis, Andrae (A.L.)
Subject: RE: 2010 Fusion Matrix

John has (3) parts on his desk...
(2) are Fusion
3FA...AR[redacted]
3FA...AR[redacted] - this is the one that the customer "requested a new t/body."
(1) is Escape
1FM...K[redacted]

Mike S. has one on his desk.
(1) Fusion
3FA...AR[redacted]
Not sure why we're holding it.
We should have John ship that one also upon his return.

Andrae or Tim,
Could you help to ensure this happens on the first day back?
If we thought there would be somebody to accept the delivery, we should ship them today or tomorrow.
Just gather relevant info first!... build dates, etc.
Thanks.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: O'Neill, Daniel P [mailto:daniel.p.o.neill@delphi.com]
Sent: Wednesday, June 24, 2009 10:06 PM
To: Langley, Scott (C.S.)
Cc: Rose, John A; Parkinson, Tim (T.M.); Cook, Dale K
Subject: RE: 2010 Fusion Matrix

Scott/Mike I cannot find the five of the six parts that were given to John on Friday afternoon. The are VIN ending in KJ14219, KA65058, KA21527, KA19395 & KB65458

I could find this one:
R120070

It's last 7 digits of the VIN are not familiar to me. Is it a 9L8E.

John did say he shipped out 6 parts on Friday. Could the 7th part be on John's desk at Ford? He has been out this week on TLO

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623
Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

From: Langley, Scott (C.S.) [mailto:slangle1@ford.com]
Sent: Wednesday, June 24, 2009 11:53 AM
To: O'Neill, Daniel P
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.)
Subject: FW: 2010 Fusion Matrix

Dan,
Look in the attached Excel file in Mike's email. The column "location" indicates what's been sent to Delphi.

Mike,
What are we doing with the one with a location of "Dearborn?"

<<Locating the 7 parts referenced in the CHep presentation on June 23, 2009>>

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Shapardanis, Michael (M.S.)
Sent: Tuesday, June 23, 2009 2:32 PM
To: Langley, Scott (C.S.)
Subject: 2010 Fusion Matrix

Scott,
Attached is the 2010 Fusion warranty claims matrix.

<<2010 Fusion ETB Claims 6-22.xls>>

Mike Shapardanis
V- Engine Engineering
Air Metering
Ford Motor Company

Cell: (313) 805-8801
Email: mshapard@ford.com

****
Note: If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the message and deleting it from your computer. Thank you.
****

From: Hwang, Sheng-Jiaw (S.J.)
Sent: Tuesday, October 02, 2012 10:53 AM
To: Harmon, Derek (D.M.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Bandoske, Pete (P.F.); Wagner, Glen (G.C.); Ricks, Kevin (K.J.); Meier, Kenneth (K.W.); Garant, Dan (DCG.); Watson, Joseph (J.W.); Langley, Scott (C.S.); Shapardanis, Michael (M.S.); Osepchook, William (W.R.)
Subject: RE: 2010-2012 Fusion/Escape no DTC loss of RPM

Derek
We are working on the investigation of those 83 claims (w/o DTC code issues):
(note from the preliminary data shows ~90% were high-mileage issues &
those build dates were spreading around 3Q2009-3Q2010.)

The 1st thing is to get the warranty parts back from fleet vehicles for the in vehicle testing to identify the root causes.
Bill Osepchook is working on the ETB tested on vehicle using IDS.

Secondly, we are analyzing those claims to sort out how many were related to ETB.
Mike Shapardanis is processing the data & Andrea Davis is working w/Delphi to check their warranty data for the similar issues.

I will keep you all posted. Let me know if you have any questions.

Regards,
Sheng-Jiaw (Joe) Hwang

PD Supervisor - Component C Current Quality
Global Engine Engineering
Phone: 313-806-3749
eMail: shwang@ford.com

From: Harmon, Derek (D.M.)
Sent: Wednesday, September 26, 2012 2:19 PM
To: Langley, Scott (C.S.); Hwang, Sheng-Jiaw (S.J.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Bandoske, Pete (P.F.); Wagner, Glen (G.C.); Ricks, Kevin (K.J.); Meier, Kenneth (K.W.); Garant, Dan (DCG.); Watson, Joseph (J.W.)
Subject: 2010-2012 Fusion/Escape no DTC loss of RPM

The intermittent no DTC loss or RPM problem is getting so much attention on the 10-12 Escape/Fusion I've now put this on the QSF emerging deck. We've gotten too many phone calls from dealership technicians needing help and fleet confidence concerns about this, it is time to monitor this closer and help our technician and customers. The attachment is a chat board between our dealership technicians.

Derek M. Harmon
Ford Customer Service Division
Powertrain Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: Cardoso, Jesus (Chuy.)
Sent: Wednesday, October 14, 2009 11:35 AM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: 3FADP0L33AR[redacted] - TB Replacement

My apologies I sent you the wrong VIN. I was referring to the one below. Thank you.

ECB Report, 3FADP0L35AR[redacted] - Throttle Body Replacement, before or after ICA/PCA ?

Regards,

Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Langley, Scott (C.S.)
Sent: Wednesday, October 14, 2009 8:34 AM
To: Cardoso, Jesus (Chuy.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: 3FADP0L33AR[redacted] - TB Replacement

Yes… that was my initial response in my email...3FADP0L33AR[redacted] is before the PCA date.

Production Date : 17-SEP-2009
PCA date at VO is estimated at 10/1/09.

Would the associated HEV 2.5 follow the same pipeline as the normal non-HEV 2.5?

For both parts, we'll keep you updated as we receive and analyze them.

- Scott

From: Cardoso, Jesus (Chuy.)
Sent: Wednesday, October 14, 2009 11:16 AM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: 3FADP0L33AR216967 - TB Replacement

Thanks Scott. Can you also send me a update for this other vehicle. Thank you.

ECB Report, 3FADP0L33AR[redacted] - Throttle Body Replacement, before or after ICA/PCA ?

Regards,

Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Langley, Scott (C.S.)
Sent: Wednesday, October 14, 2009 7:30 AM
To: Cardoso, Jesus (Chuy.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: 3FADP0L33AR216967 - TB Replacement

Jesus,
This is definitely before the PCA date.
PCA at Vehicle Assembly is ~9/28 to 10/1 for 2.5 and 3.0 depending on the plant and the engine.
I am not as sure on the pipeline and timing for the HEV… would the associated HEV gas 2.5 follow the same pipeline as the normal 2.5?

Ultimately, we will verify when we receive the part and confirm root cause.

Mike is checking on the VIN that was at the bottom of your agenda for today's CTMT meeting…3FADP0L39AR[redacted]
I'd like to provide you an email update on that in lieu of attending the meeting if that's okay.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Cardoso, Jesus (Chuy.)
Sent: Wednesday, October 14, 2009 10:10 AM
To: Langley, Scott (C.S.)
Subject: 3FADP0L33AR216967 - TB Replacement

Good Morning Scott, below is the latest TB replacement which hit ECB this morning. When your team gets a chance I would like confirmation whether it is before or after the PCA. Thank you.

VIN Code : 3FADP0L33AR[redacted]
Model Year : 2010
Vehicle Line : DH - FUSION HYBRID (NA-HSAP)
Production Date : 17-SEP-2009
Arrival Date : 28-SEP-2009
Warranty Start Date :
Body/Cab Style : C/FA - 4 DOOR SEDAN-4 LITE
Engine : C/S3 - ATK-CYC 2.5 4V PFI I4 GAS/ELEC
Transmission : C/AI - CVT AUTO TRANS*PWR SPLT ELECTR
Interior Trim Code : 000DW
External Paint Color : PN2AQ - LIGHT ICE BLUE METALLIC C/C
Drive Code : C/A - 2 WHL L/H FRONT DRIVE
Version Series Code : * - [N/A]

Wheel Size : 17 X 7.5 MACHINED ALUM
Tire Brand : MICHELIN
Tire Size : P225/50VR 17

Part Description : BODY ASY-AIR CHARGE
Part Number : 9L8Z - 9E926 - A
Mileage : 12
Time in Service : -1
Repair Date : 02-OCT-2009
AWS Load Date : 13-OCT-2009
VRT : F04 - POWERTRAIN
VFG : V29 - CHECK ENGINE LIGHT
CCC : E29 - CHECK ENGINE LIGHT TROUBLE

Regards,
Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Pulay, Kirk (K.)
Sent: Wednesday, January 19, 2011 11:59 AM
To: Chabon, Michael (W.)
Subject: RE: 7T4E ETC SYSTEM COMPARSION MATRIX DRAFT

4.6L 2V is Gen 4.0 application.
3.5/3.7L TiVCT with 2 track pedal will be Gen 4 or later but there are no TiVCT's on your list (not relevant - different throttle).

Kirk Pulay
Component C - Hardware/Controls Interface
Building 1, 2nd Floor, Cubical 12B098
Phone: (313) 805-9370
Fax: (313) 248-9026

From: Chabon, Michael (W.)
Sent: Wednesday, January 19, 2011 11:09 AM
To: Langley, Scott (C.S.); McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Oyafuso, Kevin (K.G.)
Subject: 7T4E ETC SYSTEM COMPARSION MATRIX DRAFT

Team, please find attached a draft of the system comparison matrix for our ongoing investigation, please fill out as much as you know (and add as necessary) and we will consolidate in our kickoff meeting, thanks.

<< File: 7T4E ETB SYSTEM COMPS.xls >>

Michael W. Chabon

Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:40 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.); Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I just spoke with Scot… Kevin Oyafuso will be lead contact to the dealers as he's familiar with stepping dealers through pulling ETC FF data.
Please don't make separate inquiries to the dealer.

I will set up a meeting cadence to review our approach on these vehicles and to review any data.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1

cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:25 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Thanks Scot.

Yes, please… the folks in the CC: line, if that's not too many.
I expect Shapardanis, myself and Soper to take the lead when we do find one, if that makes sense to everyone.

And note, the concern should cover codes P2111 & P2112.
P2112 covers the majority of post 8/3 claims.
P2104 is a symptom… FMEM mode, but wouldn't hurt to include it.
Some claims only list that one.. I assume because they just stopped at first code.
I don't see any P2110 codes in our post 8/3 claims, but wouldn't hurt to include it.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:04 PM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.); Dixon, Mark (M.R.)
Subject: FW: 11MY CD3 P2110-P2111
Importance: High

Any other Engineering contacts you want included in the Find a Vehicle(FAV) request ?

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:03 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I'm familiar with the outgassing TSB. According to AWS data we are seeing ETB replacements on 3.5L >8/3/10 build date in TSB 10-21-6

<< File: 11MY_CD3_ETB-DTCs.xls >>

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Tuesday, January 18, 2011 2:49 PM
To: McDonagh, Scot (S.M.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

Scot,

We already have a TSB to cover some of these issues on 2011 CD3XX. Is there an Specific TGW Built date range that your are looking for?

<< File: tsb10-21-06[1].pdf >>

ETB Gasket Failure.

Regards,

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(91-313)322-7062)

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 2:42 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: 11MY CD3 P2110-P2111
Importance: High

Hi Jose- Need to initiate an FAV for 2011MY CD3 3.5L with DTC P2110 And/Or P2111. ETB returns to date are TNI/NPF. Engineering management would like to investigate further. Please route the FAV to Kevin Oyafuso. Let me know if you need more detail. Thanks

Scot G. McDonagh
PT Quality Engineering

Phone: (313)337-8091
smcdonag@ford.com

From: Van Nortwick, Kelvin (K.L.)
Sent: Monday, August 03, 2009 10:26 AM
To: 'Zuniga, Ruben '
Cc: Rosales, Martin; Solis, Silvia Ivonne; De Luna, Luis ; Chacon, Araceli; Contreras, Claudia Judith; Gonzaga, Eugenio; Picado, Evers S; Herrera, Jesus ; Langley, Scott (C.S.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897
Attachments: QCN Request Form.xls

Delphi Team

I have completed the QCN form for the return of the stock to your facility for review and testing. Please review the information on the attached form and verify it is correct. Once I have verification from your team, I will submit it to our IQ team which will then co-ordinate the return of the stock for your review. Please note, this will result in a Quality Reject to your site. The amount of the reject can be reduced based on the analysis done by your team and reduced to the amount of parts that your team verifies as defective. You will need to provide me that amount.

Again, review the form attached and verifiy the information is correct and let me know asap.

Kelvin Van Nortwick
FCSD STA Quality Engineer
KVannort@Ford.com
Phone: 313-390-3863
Fax Number: 313-390-0448
Regent Court Building 3N115
16800 Executive Plaza Drive
Dearborn, Michigan 48126

From: Zuniga, Ruben [mailto:ruben.zuniga@delphi.com]
Sent: Friday, July 31, 2009 1:08 PM
To: Van Nortwick, Kelvin (K.L.)
Cc: Rosales, Martin; Solis, Silvia Ivonne; De Luna, Luis ; Chacon, Araceli; Contreras, Claudia Judith; Gonzaga, Eugenio; Picado, Evers S; Herrera, Jesus
Subject: FW: 9L8E 9F991 BC - NEW LEVEL - SSM 20897
Importance: High

Hi Kelvin,

According with the VME I have just left on your cell phone concerning to the 9L8Z service Electronic Throttle Body that failed, I will do you appreciate to please (using the same RMA already provided) proceed to return this part back to us for its immediate analysis as per the following shipping information:

- Delphi Plant 35 FedEx acct # : 161212962
- Adress:

El Paso Distribution Center (EPDC)
32 Celerity Wagon
79906
El Paso, TX
USA

Feel free to contact me if any questions and let us know if anything else we can help do help you with.

Kind regards,

Rubén Zúñiga
GM Air Meter & Ford ETB
Customer Contact & Quality Engineer
Delphi Powertrain Systems
Plant 35 Cd. Juarez, Chihuahua, Mexico
USA Work Ph. (915) 612-2804
Mex. Work Ph. (656) 649-2804
USA Pager # (915) 983-6515
USA Fax # (915) 612-2998
e-mail: ruben.zuniga@delphi.com

From: Rosales, Martin
Sent: Friday, July 31, 2009 8:01 AM
To: Van Nortwick, Kelvin (K.L.); Langley, Scott (C.S.); Chacon, Jose (A.); Cazares, Javier ; Melendez, Manuel G; Solis, Silvia Ivonne; De Luna, Luis
Cc: Dan, Thomas (G.); Ruiz, Jose J.
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

To all:

I am the Plant Quality Superintendent for the Manufacturing site located in Juarez, Mexico.

This product and part number is being manufacturing in this location and supply to FCSD.

I read all the traffic email and I can be able to support everyone on this concern related with ETB.

What I can do is to authorize under RMA# 242276; the 190 pcs. to be return back to Juarez for 100% inspection for the digital timing issue and any others concerns.

Silvia: what transportation mode needs to be use to returns these parts back to El Paso??

Kelvin: do you need an immediate replacement for the same amount of parts?? Please advice.

Thanks

Martin Rosales
Delphi Powertrain- Juarez
Quality/SQE Superintendent
mobile phone 52-1-656-311-4909
office phone (Mex) 656-649-2833
(USA) 915-612-2833
email:martin.rosales@delphi.com
VME node 5216442833

From: Van Nortwick, Kelvin (K.L.) [mailto:kvannort@ford.com]
Sent: Friday, July 31, 2009 6:20 AM
To: Langley, Scott (C.S.); Chacon, Jose (A.); Cazares, Javier ; Melendez, Manuel G; Rosales, Martin
Cc: Dan, Thomas (G.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Scott & Jose,

Trying to identify the correct contact for this part coming from Delphi so I can make sure they are in the loop, I show the part in IMS2 as coming from the warehouse on the US Border, but not sure which of the 3 manufacturing sites it is actually coming from. Need to identify that contact. Normally issues of this type are handled with a QCN issued by the

supplier to allow the stock to be returned for review and testing at the supplier. They provide an RMA #, carrier and account number along with information on the parts. I can send them a copy of the form for them to complete but just need to know who is the correct contact for this one. I have included the 3 Delphi QC Mgrs on this note as again, 3 sites are listed as shipping to the warehouse.

Delphi Team, need you to identify the correct contact and complete the QCN form which I have attached so the stock at FCSD can be returned and reviewed for the suspect issue ASAP

Kelvin Van Nortwick
FCSD STA Quality Engineer
KVannort@Ford.com
Phone: 313-390-3863
Fax Number: 313-390-0448
Regent Court Building 3N115
16800 Executive Plaza Drive
Dearborn, Michigan 48126

From: Dan, Thomas (G.)
Sent: Thursday, July 30, 2009 9:27 AM
To: Van Nortwick, Kelvin (K.L.)
Subject: FW: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Kelvin

Please look into this:

> **From:** Chacon, Jose (A.)
> **Sent:** Monday, July 27, 2009 11:08 AM
> **To:** McDonagh, Scot (S.M.)
> **Cc:** Langley, Scott (C.S.); Dan, Thomas (G.)
> **Subject:** RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897
>
> Thanks Scot for the update.
>
> If an STA is needed to quarantine these parts the point of contact is Thomas Dan for FCSD parts quality review. I don't want to see 190 customers have the ETC replaced, and find out the part is no good. Any information is welcome.
>
> Current service stock 190 pieces.
>
> Regards.
>
> *José Chacón*
> ***Product Concern Engineer***
> ***Fusion/Milan/Zephyr/MKZ***
> ***Ford Customer Service Division***

Thomas Dan

NA Service STA Manager
Part Supply and Logistics Quality Office - FCSD
313 390 3164 Tdan1@Ford.com

Results will change when the process improves.

Process improves when the work culture promotes teamwork and continuous improvement.

From: McDonagh, Scot (S.M.)
Sent: Tuesday, July 28, 2009 7:27 AM
To: Langley, Scott (C.S.); Pulay, Kirk (K.); Querio, Jennifer (J.); Chacon, Jose (A.); Post, Kyle (K.R.)
Cc: Bushman, Thomas (T.S.); Dixon, Mark (M.R.); Davis, Andrae (A.L.); Bos, Ed (E.A.); Dan, Thomas (G.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Thanks Scott- I interpreted Kirk's input on 6/25(below) to mean that techs would be able to diagnose the TB Chip concern with current PPT DV diagnostics. Will wait for feedback from Mr. Dan on how to handle existing service stock.

Scot,
PCED procedure looks OK and will lead tech to throttle after checking open and closed TP voltages, obstruction, VREF at the throttle connector, sensor resistance / diode check. Other routes lead the techs through harness open/short check. The current PCED diagnostics for out of range codes seem thorough and robust.

Scot G. McDonagh

Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, July 28, 2009 12:50 AM
To: Pulay, Kirk (K.); McDonagh, Scot (S.M.); Querio, Jennifer (J.); Chacon, Jose (A.); Post, Kyle (K.R.)
Cc: Bushman, Thomas (T.S.); Dixon, Mark (M.R.); Davis, Andrae (A.L.); Bos, Ed (E.A.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

The "screening Test" that I was mentioning below was relative to Service Stock... sending parts from Service Stock back to Delphi or to us here in Dearborn to screen the parts.

Hopefully, I did not give any indication that the PPT would properly identify the chip issues in the field. I had consulted with Kirk prior to my feedback on the SSM wording.
NOTE that P0122 and P0222 should also point to wire harness issues! I would estimate that that's the next biggest cause after the chip timing issue and will be the biggest cause in the future. And, that's why I had asked for the wording to be: "If root cause is undetermined following diagnostic routines, including the verification of associated wire harness connections, replace Electronic Throttle Body(ETB)."

Also note, the chip timing issue should not be more than a 173ppm issue by our calculations! Not acceptable performance, but doesn't yield high odds of having multiple failures within a small batch of service stock.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Pulay, Kirk (K.)
Sent: Monday, July 27, 2009 3:05 PM
To: McDonagh, Scot (S.M.); Querio, Jennifer (J.); Chacon, Jose (A.); Langley, Scott (C.S.); Post, Kyle (K.R.)
Cc: Bushman, Thomas (T.S.); Dixon, Mark (M.R.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

The PCED procedure will only identify TPS if the issue is present during the diagnostic test. Unless we released a TPS programming tool to each dealer we cannot identify the suspect parts by monitoring the outputs unless it is in continuous reset mode in which case the output will most likely read 0V.

What was the final fix for the two cars mentioned below? Did the dealer install a second new ETB?

Thanks,

Kirk Pulay
Component C - Hardware/Controls Interface
Building 1, 2nd Floor, Cubical 12G102
☎ Phone: (313) 805-9370
Fax: (313) 248-9026

From: McDonagh, Scot (S.M.)
Sent: Monday, July 27, 2009 2:39 PM
To: Querio, Jennifer (J.); Chacon, Jose (A.); Langley, Scott (C.S.); Pulay, Kirk (K.); Post, Kyle (K.R.)
Cc: Bushman, Thomas (T.S.); Dixon, Mark (M.R.)
Subject: FW: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Are Techs performing PCED PPT DV ? Engineering was confident that the PPT would properly identify TB chip failures.

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Querio, Jennifer (J.)
Sent: Monday, July 27, 2009 2:25 PM
To: McDonagh, Scot (S.M.)
Cc: Chacon, Jose (A.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Scott,
I've got at least 2 reports to hotline of which ETB was replaced for P0122/P0222 and codes came back plus additional codes. The bad service stock is driving PCM & accel pedal replacement as next steps to fix.

What's the timeline confirmed good service stock? Should this be a TSB since it's is a known ETB supplier quality issue?

From: Chacon, Jose (A.)
Sent: Monday, July 27, 2009 2:06 PM
To: Querio, Jennifer (J.)
Subject: FW: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Scot to work with STA.

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(313) 317-7047

From: McDonagh, Scot (S.M.)
Sent: Monday, July 27, 2009 1:59 PM
To: Langley, Scott (C.S.); Boerger, Jim (J.G.)
Cc: Dan, Thomas (G.); Dixon, Mark (M.R.); Ickes, Bill (B.K.); Chacon, Jose (A.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Thanks Scott- Will work with FCSD and STA on service parts

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Langley, Scott (C.S.)
Sent: Monday, July 27, 2009 1:06 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.)
Cc: Dan, Thomas (G.); Dixon, Mark (M.R.); Ickes, Bill (B.K.); Chacon, Jose (A.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

See my previous email response... They can be screened for the Chip timing issue. Those that fail can be scrapped or reworked per Delphi's normal process.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: McDonagh, Scot (S.M.)
Sent: Monday, July 27, 2009 12:24 PM
To: Langley, Scott (C.S.); Boerger, Jim (J.G.)
Cc: Dan, Thomas (G.); Dixon, Mark (M.R.); Ickes, Bill (B.K.); Chacon, Jose (A.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Can these (190) service components be reworked by the supplier ?

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Monday, July 27, 2009 11:08 AM
To: McDonagh, Scot (S.M.)
Cc: Langley, Scott (C.S.); Dan, Thomas (G.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Thanks Scot for the update.

If an STA is needed to quarantine these parts the point of contact is Thomas Dan for FCSD parts quality review. I don't want to see 190 customers have the ETC replaced, and find out the part is no good. Any information is welcome.

Current service stock 190 pieces.

Regards.

José Chacón

Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(313) 317-7047

From: McDonagh, Scot (S.M.)
Sent: Monday, July 27, 2009 10:57 AM
To: Chacon, Jose (A.); Langley, Scott (C.S.)
Subject: RE: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Jose- 6 panel enclosed. Not aware of any action to supersede existing service part stock. Will ask Mr. Langley to advise

Scot G. McDonagh

Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Monday, July 27, 2009 10:44 AM
To: McDonagh, Scot (S.M.)
Subject: 9L8E 9F991 BC - NEW LEVEL - SSM 20897

Scot,

Good morning. Do you know if there are going to be provisions to clean service stock parts with a new level part. Do you have a 6Panel on the internal containments made by Delphi? This is regarding SSM 20897.

SERVICE PART: 9L8Z- 9E926-A____ THROTTLE BODY AND MOTOR ASY

ENGINEERING PART: 9L8E 9F991 BC_____ ORIGIN: WERS

CURRENT STOCK PARTS: 190

OASIS SPECIAL SERVICE MESSAGE NUMBER: 20897

MESSAGE TITLE: 2009 ESCAPE/MARINER, ESCAPE/MARINER HEV, AND 2010 FUSION/MILAN, FUSION/MILAN HYBRIDS BUILT BEFORE 06/15/09 - DIAGNOSTIC TROUBLE CODES

APPLICABLE VEHICLES :
2010 CAR : 00170 FUSION
2010 CAR : 00171 MILAN

2009 - 2010 TRUCK : 00130 ESCAPE
2009 - 2010 TRUCK : 00163 MARINER

OASIS MESSAGE :
SOME 2009 ESCAPE/MARINER/HYBRID AND 2010 FUSION/MILAN/HYBRID VEHICLES, EXCLUDING THE 3.5L ENGINE, BUILT PRIOR TO 6/15/2009, MAY EXHIBIT A MALFUNCTION INDICATOR LIGHT(MIL) AND/OR LACKS POWER CONDITION WITH DIAGNOSTIC TROUBLE CODES P0122 AND/OR P0222. TO PROPERLY DIAGNOSE THIS CONDITION, PERFORM PC/ED PINPOINT TEST DV DIAGNOSTIC SUBROUTINE, INCLUDING CHECKING THE WIRING HARNESS CONNECTIONS FOR PROPER SEATING. IF THE ROOT CAUSE IS UNDETERMINED, REPLACE THE ELECTRONIC THROTTLE BODY.

APPLICABLE SYMPTOM CODES :
P0122 DIAGNOSTIC TROUBLE CODE (DTC)
P0222 DIAGNOSTIC TROUBLE CODE (DTC)
698298 DRIVEABILITY MALFUNCTION INDICATOR LAMP - MIL
800000 GENERAL-PREDELIVERY RUNNING CHANGES
804000 PRE-DELIVERY

Regards,

José Chacón

Product Concern Engineer

Fusion/Milan/Zephyr/MKZ

Ford Customer Service Division

(313) 317-7047

Note: If the reader of this message is not the intended recipient, or an employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by replying to the message and deleting it from your computer. Thank you.

https://web.purinfo.ford.com/

QCN Request Form (One form per RMA#)

Completing this form does not exempt you from providing disposition from any subsequent rejects in DDL

Site Code: G27#N

Supplier Name: Delphi Plant 35

RMA#: 242276

QC Alert #:

Charge Code: S Supplier

Disposition: I I = Return to Supplier - in remarks indicate address where to ship defective stock

Disposition Codes (S = Scrap, R = Rework, I = Return to Supplier indicate address where to ship the defective stock, H = Hold (in remarks, please indicate the reason for holding the material)

Reason/Description for QCN: (Provide description of problem along with detailed background as necessary)
Return stock to supplier for review and 100% testing of parts to verify that parts sent to FCSD are defect free - 190 pcs

Special Instructions: If Any

	Service Part Number	Part Name	Shipping or Packaging Date Code
1	9L8Z-9E926-A	ETB	
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Ford STA Engineer List: Van Nortwick, Kelvin

Name: Van Nortwick, Kelvin
E-Mail: kvannort@ford.com
Phone #: 313-390-3863

Supplier Information
Name: Ruben Zuniga
E-Mail: ruben.zuniga@delphi.com
Phone #: 915-612-2804

Carrier: Fed Ex
Carrier Acct#: 161212962
Ship to Address Info: EPDC 32 Celerity Wagon
Attn: Ruben Zuniga
City: El Paso
State: Texas
Zip Code: 79906

From: Bushman, Thomas (T.S.)
Sent: Wednesday, January 19, 2011 2:01 PM
To: Langley, Scott (C.S.); Shapardanis, Michael (M.S.); Chabon, Michael (W.)
Cc: Rodriguez, Cynthia (C.R.); Quijada, Jorge (J.); Crudo, Frank (F.J.); Dixon, Mark (M.R.); Pulizzi, Pietro (P.G.); Parkinson, Tim (T.M.)
Subject: RE: 9L8E- BC Returns -- Need Additional eBSAQ Project(s) for ETB

Scott / Mike / Mike -

SAQ2011160262 is now in the system. It is applicable to both U377 and CD3. We just need the Work Plan populated with Root Cause, ICA & PCA to get us started.

Thanks for your help on this.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Langley, Scott (C.S.)
Sent: Wednesday, January 19, 2011 11:44 AM
To: Bushman, Thomas (T.S.); Shapardanis, Michael (M.S.); Chabon, Michael (W.)
Cc: Rodriguez, Cynthia (C.R.); Quijada, Jorge (J.); Crudo, Frank (F.J.); Dixon, Mark (M.R.); Pulizzi, Pietro (P.G.); Parkinson, Tim (T.M.)
Subject: RE: 9L8E- BC Returns -- Need Additional eBSAQ Project(s) for ETB

Tom,
Can you initiate the project and then we can fill out the workplan?

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg (for Engine Components)
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com
<< OLE Object: Picture (Metafile) >>

From: Bushman, Thomas (T.S.)
Sent: Wednesday, January 19, 2011 10:28 AM
To: Shapardanis, Michael (M.S.); Langley, Scott (C.S.); Chabon, Michael (W.)
Cc: Rodriguez, Cynthia (C.R.); Quijada, Jorge (J.); Crudo, Frank (F.J.); Dixon, Mark (M.R.); Pulizzi, Pietro (P.G.)
Subject: RE: 9L8E- BC Returns -- Need Additional eBSAQ Project(s) for ETB

Mike / Scott / Mike --

Do we have any updates from Delphi on their containment actions for the P2111 issue found on the ETB returned last week? We are currently showing RED with Leakage on our P/T Form-4 because of this issue. We need these most recent actions that Delphi will take documented in eBSAQ so we can show action being taken and turn the issue YELLOW.

Please reply to all with the status and the next steps timing.

Thanks.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Bushman, Thomas (T.S.)
Sent: Thursday, January 13, 2011 2:39 PM
To: Shapardanis, Michael (M.S.)
Cc: Langley, Scott (C.S.); Chabon, Michael (W.); Rodriguez, Cynthia (C.R.); Quijada, Jorge (J.); Crudo, Frank (F.J.)
Subject: RE: 9L8E- BC Returns

Mike - thanks for the update on these two ETBs. Glad you were able to see a failure in the one ETB I tested here, and failed as well.

Hopefully Delphi will be able to figure out a root cause and put containment in the system. When they do can you please put an eBSAQ project into the system to document?

Thanks.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Shapardanis, Michael (M.S.)
Sent: Thursday, January 13, 2011 1:33 PM
To: Bushman, Thomas (T.S.)
Cc: Langley, Scott (C.S.); Chabon, Michael (W.)
Subject: 9L8E- BC Returns

Tom,
We received the 2 9L8E-BC ETB's on 1/7/2011.
The ETB from VIN 1FMCU0D71BK[redacted] had no issues on our bench test and was sent to Delphi on 1/10/2011additional analysis.

The ETB from VIN 1FMCU9DG0BK[redacted] this is the ETB that you were able to duplicate and set the P2111 DTC. This part failed at -40C, the motor would not cycle. When the ETB the throttle plate was manually cycled TP1 and TP2 followed the encoder, this does not appear to be a TPS issue.
This part was sent to Delphi on 1/12/2010 for further analysis.

Mike Shapardanis
V- Engine Engineering
Air Metering
Ford Motor Company
Cell: (313) 805-8801
Email: mshapard@ford.com

From: Bos, Ed (E.A.)
Sent: Tuesday, June 23, 2009 2:44 PM
To: Langley, Scott (C.S.)
Cc: Pulay, Kirk (K.)
Subject: RE: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Scott,

MLX has written some software to test parts that have not been locked. They have not sent me this code. There is a way to unlock the MLX part, but since this has been a closely gaurded secret by MLX I don't know what is involved.

I will ask MLX what is possible on this.

I don't think there is anything on the Ford side we can do other than working with MLX on this.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, June 23, 2009 2:36 PM
To: Bos, Ed (E.A.); Pulay, Kirk (K.)
Cc: McDonagh, Scot (S.M.); McCoy, Jim (D.); Chabon, Michael (W.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Dixon, Mark (M.R.); McRoy, Gitanjli (G.)
Subject: RE: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Kirk, Ed,
Probably need your combined input here….

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Dixon, Mark (M.R.)
Sent: Tuesday, June 23, 2009 1:12 PM
To: Langley, Scott (C.S.)
Cc: McDonagh, Scot (S.M.); McCoy, Jim (D.)
Subject: FW: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar
Importance: High

Scott, is there any diagnostic we can run to determine whether the vehicles with the TP circuit DTCs have the Delphi chip concern?

Mark Dixon
Powertrain Quality
Ford Motor Company
Building 2 / 24K36
mailto:mdixon@ford.com
Tel: (313) 805-7051

From: McDonagh, Scot (S.M.)
Sent: Tuesday, June 23, 2009 1:05 PM
To: Dixon, Mark (M.R.); Langley, Scott (C.S.); Cowher, Terry (T.); Post, Kyle (K.R.); Wagers, Sue (S.K.); Shapardanis, Michael (M.S.)
Subject: RE: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar
Importance: High

Please review below SSM draft and provide feedback ASAP. I will forward to FCSD PCEs for release when you have approved. Thanks

SSM Draft: 2009MY Escape/Mariner and 2010MY Fusion
Some 2009 Model Year Escape/Mariner and 2010MY Fusion equipped with 2.5L and 3.0L Engines may exhibit MIL light ON and Electronic Throttle Body, Throttle Position Sensor Diagnostic Trouble Codes P0122(Throttle/Pedal Position Sensor A- Circuit Low) and/or P0222(Throttle/Pedal Position Switch B- Circuit Low). Perform normal PCED Diagnostic Subroutines. If root cause is undetermined following normal diagnostics, DO NOT replace the Powertrain Control Module. This concern is under investigation. Monitor OASIS for updates. (6/23/09)

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Dixon, Mark (M.R.)
Sent: Tuesday, June 23, 2009 12:37 PM
To: McDonagh, Scot (S.M.)
Subject: FW: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Info

Mark Dixon
Powertrain Quality
Ford Motor Company
Building 2 / 24K36
mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Langley, Scott (C.S.)
Sent: Monday, June 22, 2009 11:08 PM
To: Dixon, Mark (M.R.)
Cc: Cowher, Terry (T.); Bos, Ed (E.A.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.); Chabon, Michael (W.); Hall, Brent (A.)

Subject: RE: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Mark,
Based on what I've seen so far, those claims you mention would not appear to be due to the ETB Chip timing error.

Of the Nine total confirmed failures for this Chip timing issue, all but one have one of the TPS circuit codes… either P0122 or P0222.

The one confirmed chip timing failure that doesn't have a TPS circuit code has no codes recorded, but the customer comments are "CUSTOMER REPORTS THAT WRENCH SYMBOL HAD DISPLAYED 1 DAY FOR 1 DRIVE CYCLE, CUSTOMER IS TAKING VEHICLE ON TRIP. ON ROAD TEST UNABLE TO CONFIRM CONCERN. INSPECT AND DO IDS TEST. NO CODE. SYS"

Of the (8) with a TPS circuit code:
- (2) also have the P0505 (idle speed?) code. One of those also has P2127, P2128, P2100
- (1) also has a P2135 and a P1125.
- (1) also has a P1000
- (1) also has a P1111

The Chip timing issue has not acted intermittently once it has shown up. That seems to be consistent with the mechanics of the failure.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Dixon, Mark (M.R.)
Sent: Monday, June 22, 2009 4:19 PM
To: Langley, Scott (C.S.)
Cc: Cowher, Terry (T.)
Subject: RE: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Scott, have you seen any other DTCs than the TPS circuit codes that the ones you mention below? We have one PCM replacement with a P2107 DTC, several more with no start complants, and some with misfire codes.

I am assuming none of these are related to this ETB chip concern?

Mark Dixon
Powertrain Quality
Ford Motor Company
Building 2 / 24K36
mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Crudo, Frank (F.J.)
Sent: Monday, June 22, 2009 4:04 PM
To: Dixon, Mark (M.R.)
Subject: FW: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Frank J. Crudo

V-Engine Reliability Q Back
Building 1 cube 13F002
313-322-5979

From: Langley, Scott (C.S.)
Sent: Monday, June 22, 2009 1:42 PM
To: Crudo, Frank (F.J.)
Cc: Davis, Andrae (A.L.); Chabon, Michael (W.); Hall, Brent (A.); Boerger, Jim (J.G.); Bos, Ed (E.A.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: 9L8E ETB presentation - effects '10 Fusion & '09 Esc/Mar

Frank,
Per our conversation…

- Chip timing issue associated with the Physical Vapor Depostion process at the wafer level. Chip supplier, Melexis is Tier 4.
- Two processes… PVD1 & PVD2. There are differences between the processes. PVD1 has been the issue.
- The revised screening test of 5/27 should really be identified as the ICA. (date might be earlier at VO… ~5/17… some were screened on engines.)
- The PCA is to switch to PVD2. We will continue screening, even with PVD2.
- There have already been parts supplied using PVD2. So Far, no field failures with PVD2.
- We're working with Delphi to improve their Paynter chart… needs better delineation between ICA & PCA.
- We're working with Delphi and Melexis almost daily.
- Having regular (now at 1x per week) discussions with Bruce Garrett for Esc/Mar at KCAP. I believe he also covers Fusion.

- Note, not all parts are this chip timing issue. But, those that show the TPS circ codes (P0122/3, P0222/3) are likely this issue.

- We're doing pretty well at getting Fusion parts back for analysis. Of the 13 or 14 claims, we have (10) back or on the way back.

- Note, the original focus of this presentation was on Veh Prod dates of January '09 and later. That was per request of KCAP and because we had previous clean dates back in the fall.

<< File: 09MY 9L8E ETB Warranty_20090616.ppt >>

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Boerger, Jim (J.G.)
Sent: Friday, January 13, 2012 1:12 PM
To: Langley, Scott (C.S.); Lardizabal, Sergio (S.)
Cc: Chabon, Michael (W.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Makowski, Scott (S.A.); Bos, Ed (E.A.); Schiltges, Dave (D.)
Subject: RE: Alert A12506316 - Debounce bit on ETB TPS... Immediate implementation at Delphi?

Agreed. The debounce implementation will be common across a number of vehicle lines and has previously been trialed in other VO plants. This is also an important ETB quality enabler. Please approve the alert right away, thanks, Jim

Jim Boerger
Manager - Component Design C Department
Global Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

Share the Ford story at http://www.thefordstory.com

From: Langley, Scott (C.S.)
Sent: Friday, January 13, 2012 12:37 PM
To: Lardizabal, Sergio (S.); Boerger, Jim (J.G.)
Cc: Chabon, Michael (W.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Makowski, Scott (S.A.); Bos, Ed (E.A.); Schiltges, Dave (D.)
Subject: RE: Alert A12506316 - Debounce bit on ETB TPS... Immediate implementation at Delphi?

I will let Jim answer for himself, but we are confident that this does not need to be evaluated at VO.
This is based on:

- Our understanding of the function of this feature.
- Our bench testing of this feature
- We have evaluated vehicles here.
- The functionals conducted now at LEP & CEP.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg (for Engine Components)
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Lardizabal, Sergio (S.)
Sent: Friday, January 13, 2012 12:04 PM
To: Boerger, Jim (J.G.)
Cc: Langley, Scott (C.S.); Chabon, Michael (W.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Makowski, Scott (S.A.); Bos, Ed (E.A.); Schiltges, Dave (D.)
Subject: FW: Alert A12506316 - Debounce bit on ETB TPS... Immediate implementation at Delphi?
Importance: High

Jim,
We finished the trial of this part at CHEP last night but I am being questioned if this is a pass through for the engine plant and should be evaluated at VO. Can you please confirm that you are comfortable and there is no risk to start production without an in vehicle trial. I f you agree I will approve the alert right away.

Regards,

From: Langley, Scott (C.S.)
Sent: martes, 10 de enero de 2012 02:12 p.m.
To: Marinelarena, Juan (J.)
Cc: Lardizabal, Sergio (S.); Aldana, Oswaldo (OA.); Chabon, Michael (W.); Parkinson, Tim (T.M.); Bos, Ed (E.A.); Davis, Andrae (A.L.); Schiltges, Dave (D.)
Subject: Alert A12506316 - Debounce bit on ETB TPS... Immediate implementation at Delphi?

Juan,
Happy New Year!
Per our brief phone call earlier… Please read my latest entry in the subject alert. Then, if you agree with my proposal could you just enter your agreement in the D screen and disposition the Approval screen again?

Delphi has apparently sent functional samples with this feature for you to run.
But, regardless of the status of those functionals we would like to give Delphi the go-ahead to switch their production immediately.
This is for the following reasons:
- This feature acts as a filter against electrical noise coupled onto the TP circuit.
- We have direct evidence just in the last week on two 3.0l Fusion customer vehicles that the UEGO circuit is inducing electrical noise on the TP circuit causing the chip in the TPS to go into reset mode. (The 3.0l and 2.5l share the same ETB… used to be 9L8E, now is DS7E).
- The Debounce feature is just a mode to be turned on in the TPS chip that will filter out this noise (in the 7 to 9 V range) but allows the chip and TPS to operate normally at the normal supply voltage range (5.0 +/- 0.25 V)
- Lima Engine Plant and CEP 1 have run successful trials of about 400 pcs each of ETBs with this debounce feature.
- Our engineering evaluation of this change says that it will have no effect on vehicle or testing operations.
- We have run parts and are still running samples with this feature on vehicles here in Dearborn.
- Every day delay is more and more parts that could be susceptible to this issue for customers.
- Even if Delphi changes their production over today, that functional sample gives you a "head-start" to sample those before the production changeover stock reaches your line.

Delphi would like to continue running this under alert to ensure that they don't have any fallout…. Less than 45 days. So far, they have had no fallout.
There is a slight spec update for this revision. But, it would be managed under record revision to eliminate the alert.
We are asking them to address the spec immediately.

Thanks for your attention to this, Juan!

To the entire team, please feel free to call me about this. The rest of my afternoon schedule is very open today.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg (for Engine Components)
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Tedone, Damian (D.J.)
Sent: Thursday, October 29, 2009 9:23 AM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.)
Subject: RE: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

I just called the dealer and they did not send it back through the HOT process as requested so it is coming back through the normal 700 Tag process. So I suspect you will receive it directly through your normal process. However from reading the comments later in the report the throttle body might not have fixed the issue. See attached.

Have a Blessed Day
Damian Tedone
HEV Controls Applications & Torque Monitor Supv.
Integrated Six Sigma Master Black Belt
Sustain Mobility Tech Lab – II Cube 2AB04
15000 Commerce Drive North Dearborn, MI 48120
Ford Motor Company
- dtedone@ford.com <mailto:dtedone@ford.com>
(PHONE 313-594-7606

From: Langley, Scott (C.S.)
Sent: Wednesday, October 28, 2009 4:23 PM
To: Tedone, Damian (D.J.)
Cc: Shapardanis, Michael (M.S.)
Subject: RE: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

Thanks Damian.
If you'd prefer, you can have it sent back to the attention of Mike Shapardanis.
He'll then do some initial testing here with our Delphi on-site, then return to the Delphi for further analysis.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Tedone, Damian (D.J.)
Sent: Wednesday, October 28, 2009 4:08 PM
To: Langley, Scott (C.S.)
Subject: RE: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

No I have not received it as of yet. I will call the dealer tomorrow.

Have a Blessed Day
Damian Tedone
HEV Controls Applications & Torque Monitor Supv.
Integrated Six Sigma Master Black Belt
Sustain Mobility Tech Lab – II Cube 2AB04
15000 Commerce Drive North Dearborn, MI 48120
Ford Motor Company
- dtedone@ford.com <mailto:dtedone@ford.com>
(PHONE 313-594-7606

From: Langley, Scott (C.S.)
Sent: Wednesday, October 28, 2009 4:01 PM
To: Cardoso, Jesus (Chuy.); Shapardanis, Michael (M.S.); Tedone, Damian (D.J.)
Subject: RE: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

Damian,
Do you have this throttle body?...

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Cardoso, Jesus (Chuy.)
Sent: Wednesday, October 28, 2009 2:14 PM
To: Shapardanis, Michael (M.S.)
Cc: Langley, Scott (C.S.)
Subject: RE: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

Thank you for the update Mike.

No. 1 should be 3FADP0L36AR[redacted] (Report No. 9JBBI004). Per the note in the report the TB was sent back to Damian Tedone.

ADD-ON 10/06/2009 11:02AM DAMIAN TEDONE PD - PRODUCT DEVELOPMENT THROTTLE BODY REQUESTED BACK THROUGH HOT PROCESS TO DEALER TECH ANDREW CARR, SEND TO DAMIAN TEDONE 313-805-8384

Sorry for the mix-up.

Regards,
Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Shapardanis, Michael (M.S.)
Sent: Wednesday, October 28, 2009 6:14 AM
To: Cardoso, Jesus (Chuy.)
Cc: Langley, Scott (C.S.)
Subject: RE: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

Jesus,
The ETB ICA/ PCA dates at the vehicle plant are- ICA Vehicle: 8/16/2009, PCA Vehicle: 10/1/2009

1. 3FADP0L39AR[redacted], GCQIS Report No. 9JBEB874 - Throttle Body Replacement, before or after ICA/PCA ?
The only claim in AWS for this VIN is to replace the Engine cover, the dealer that replaced the engine cover has no record of selling a 9L8E-9F991-BC (9L8Z-9E926-A service #) ETB.
I do not have access to GCQIS to look up the GCQIS # 9JBEB874 to check if another dealer had replaced this ETB.
Not on the WPAC tag issued list.
Vehicle build date is 9/1/2009 which is after ICA and before PCA.

ECB Report, 3FADP0L33AR[redacted] - Throttle Body Replacement, before or after ICA/PCA ?
ETB is at WPAC (arrived 10/26/09), I will pick up this ETB today.
Vehicle build date is 9/17/2009 which is after ICA and before PCA.

ECB Report, 3FADP0L35AR[redacted]- Throttle Body Replacement, before or after ICA/PCA ?
Earnhardt Ford will call me today to let me know the status of this ETB, this ETB is not on the WPAC tag issued list.
Vehicle build date is 9/2/2009 which is after ICA and before PCA.

Thanks

Mike Shapardanis
V- Engine Engineering
Air Metering
Ford Motor Company
Cell: (313) 805-8801
Email: mshapard@ford.com

From: Cardoso, Jesus (Chuy.)
Sent: Tuesday, October 27, 2009 12:33 PM
To: Cardoso, Jesus (Chuy.); 'andrew.moreau@continental-corporation.com'; Ayala, Carlos (C.); Blankenship, Todd (T.A.); Buvalic, Jim (J.G.); Castellano, Jim (J.C.); Chacon, Jose (A.); Cherian, Praveen (.); Childress, Terry (T.W.); Chorian, Steve (S.F.); 'eddie.jarrett@us.contiautomotive.com'; Ferrel, Mark (MJF.); Gee, Tom (T.S.); Gibeau, John (J.); Gudino Mendoza, Martin (J.M.); Gwozdek, Tom (T.M.); Hashmi, Aasim (A.); Hayes, Dave (D.L.); Iorio, Rob (R.R.); Ivanovic, Steven (S.); 'Joel.Kurdys@us.contiautomotive.com'; 'jorge.andrade@continental-corporation.com'; Kapadia, Jimmy (J.H.); Leshan, Jim (J.N.); Bradcoski, Brian (B.P.); Mathie, Craig (C.M.); McCormick, John (J.P.); Mo, Michelle (L.); Paramasivam, Sarav (S.); Pierce, Warren (W.B.); Portalatin, Gil (G.); Sagan, Clement (C.N.); Sagan, Jessica L (J.L.); Sankaran, Venkateswa (V.A.); Schafran, Sonja (S.); Stock, Gerald (G.); Tedone, Damian (D.J.); Thompson, Wayne (W.M.); Treharne, David (W.D.); Trizon Dyck, Javier (J.T.); Callicoat, Debbi (D.); Worrel, Peter (P.F.); Zarei, Shahram (S.); Qiao, Hong (USA.); Fan, Sixin (S.); Schulze, Shane (S.C.); Gabor, Daniel (D.A.); Hinderer, Michael (M.); Sipes, Ann (A.I.); Bodnar, Les (L.R.); Taylor, Richard (R.P.); Langley, Scott (C.S.)
Cc: Viviano, Giuseppe (G.); Leon, Carlos (C.L.); 'Mouawad, Ben'; Hanna, Bashar (B.A.); 'Eddie Jarrett/dp/na/au/cag'; Nematollahi, Sonya (A.S.); Kobal, Robert (R.K.); Iaquinta, Mario (M.D.); Johnston, William (Bill.); 'jvalenzuela@mhicc.com'
Subject: CD3 HEV Concern Trend Monitoring Team (CTMT) - Agenda 10/28/2009

CD3 HEV Concern Trend Monitoring Team (CTMT)

HEV Plant Vehicle Team
Hermosillo Stamping and Assembly Plant, Passcode: 64024199
12:30PM (HSAP) / 3:30PM (EST)
October 28, 2009

Agenda

1. **FCSD Emerging Issues / ISM/SSM Review - B. Bradcoski (5 min)**
   A. Cluster Reflash Broadcast Message

2. **Open TARs / Prior Approvals / ECB/ AWS Emerging Issues / Walk-Ins (10 min)**
   A. TARs:
   i. 3FADP0L39AR[redacted] GCQIS No. 9JGBP012 - No Start, Interlock Issues
   B. Prior Approvals:
   i. 3FADP0L39AR[redacted] GCQIS No. 9JHBI004 - No Start, HV Battery Replacement
   ii. 3FADP0L38AR[redacted], GCQIS No. 9HGAO095 - Trans Grinding Noise
   C. Follow Up:
   i. 3FADP0L39AR[redacted], GCQIS Report No. 9JBEB874 - Throttle Body Replacement, before or after ICA/PCA ?
   ii. ECB Report, 3FADP0L33AR[redacted] - Throttle Body Replacement, before or after ICA/PCA ?
   iii. ECB Report, 3FADP0L35AR[redacted] - Throttle Body Replacement, before or after ICA/PCA ?
   iv. 3FADP0L35AR[redacted], GCQIS Report No. 9JSAT012 - HV Battery Replacement

Regards,

Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

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Call-in Information
1. Dial one of the numbers listed below
2. Press 1
3. Enter the Meeting ID 64024199 and press #
4. Press 1
5. Record your name and press #

You have just joined the meeting!
Note: To speed things up, you can perform the sequence of steps above without having to wait for the audio prompts.
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Non FordNet Access
Toll (International): +1.313.621.3673
Toll-free: 1.888.621.3673

From: Tedone, Damian (D.J.)
Sent: Thursday, October 29, 2009 9:22 AM
To: Tedone, Damian (D.J.)
Subject: Report Summary for the CQIS Report#9JBBI004

Attachments : 0

Report# :	9JBBI004 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L36AR[redacted]			**Build Date:**	08/28/2009
Odometer :	84 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 00149 Waldorf Ford, Inc.			**Phone#:**	(301) 843-2400
City:	Waldorf	**State:**	Maryland	**Country :**	USA
Originator:	ANDREW CARR				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	P2135, P2111, U0161				
Fix:	**Causal Component :**				
Condition Code:					

Hotliner: NPETER25 **Phone:** 000 337-4487 **Regn Cd:** N4 Washington

Engineering: **Phone:** **TAR:**

Dlr Contact: ANDREW CARR **Phone:** 410 290-1100 **Title Cde:** T

DTCs:
KOEO:
KOEC:
KOER:

Comments :

REPAIR 10/02/2009 10:17AM NANCY PETERSEN MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CUSTOMER STATES WHILE DRIVING VEHICLE STARTED BUCKING AND JERKING, ALSO HAD A LOSS OF POWER AND BARELY MADE
IT TO THE DEALERSHIP. DIAGNOSTICS: IDS TEST; CMDTC PARTS

REPLACED:: NONE TECH QUESTION: ANY KNOWN CONCERNS WITH THIS CONCERN
AT A VEHICLE WITH 358 MILES ON IT? ANY SUGGESTIONS OTHER THAN DOING THE PINPOINT TEST FOR THIS CONCERN? PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE

RECOMM 10/02/2009 10:17AM NANCY PETERSEN MSS - FCSD - TECH SVC HOTLINE
ANDREW, BASED ON THE THROTTLE BODY CODES, THE THROTTLE BODY WAS NOT
IN THE POSITION COMMANDED BY THE PCM. VERIFY THE CIRCUITS BETWEEN THE
PCM AND THE THROTTLE BODY ARE WITHIN SPECS OUTLINED BY PPT DV. IF CIRCUITS ARE GOOD REPLACE THE THROTTLE BODY, CLEAR KAM AND RETEST. FOLLOW PPT FOR U0161. THERE ARE NO KNOWN CONCERNS FOR THIS MODEL YEAR.

ADD-ON 10/06/2009 11:02AM DAMIAN TEDONE PD - PRODUCT DEVELOPMENT
THROTTLE BODY REQUESTED BACK THROUGH HOT PROCESS TO DEALER TECH ANDREW CARR, SEND TO DAMIAN TEDONE 313-805-8384

REPAIR 10/12/2009 02:20PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
TECH'S QUESTION: ANY KNOWNS FOR CONCERN, CHECKED PIN FIT THE BEST I COULD IT SEEMS OK I ORDERED A REPLACEMENT CONNECTOR BUT HAVE NOT INSTALLED YET DESCRIPTION OF VEHICLE CONCERN: C/R CAR WILL ONLY GO ABOUT 5 MPH- CHECK AND ADVISE CHECK ENGINE LIGHT IS ON DIAGNOSTICS ALREADY COMPLETED: EEC TESTED P2135 PERFORMED P/P TEST-DIRECTED TO RELEASE VEHICLE UNABLE TO DUPLICATE PARTS REPLACED: ANOTHER FORD DEALER REPLACED ETB LIGHT CAME ON ON THE WAY DOWN THE ROAD FROM DEALER
VEHICLE WAS TOWED HERE DTC: P2135

RECOMM 10/12/2009 02:20PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
PATRICK, RECOMMEND INSPECTING AND VERIFYING PIN FIT AT CONNECTOR 145. THERE ARE A COUPLE PAST REPORTS INDICATING MULTIPLE DRIVABILITY PROBLEMS CAUSED BY POOR PIN FIT/ CONNECTION AT THIS CONNECTOR.

REPAIR 10/13/2009 02:10PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
TECHNICIAN REPLY: I CHECKED C145 UNABLE TO VERIFY PIN FIT ISSUE ANY FURTHER DIRECTION I CANT DUPLICATE CONCERN BUT IT HAS BROKEN DOWN TWICE ON THE CUSTOMER WITH P2135

RECOMM 10/13/2009 02:10PM MICHAEL HINDERER MSS - FCSD - TECH SVC HOTLINE
PATRICK, IF NOT ALREADY DONE, RECOMMEND INSTALLING THE REPLACEMENT CONNECTOR AND RETESTING. IF THE CONCERN IS STILL PRESENT, OVER LAY THE
TP CIRCUITS FROM THE THROTTLE BODY TO THE PCM PIN TO PIN AND RETEST.

From: Rose, John A <john.a.rose@delphi.com>
Sent: Wednesday, September 30, 2009 2:09 PM
To: Langley, Scott (C.S.); Rosales, Martin
Cc: O'Neill, Daniel P; Contreras, Claudia Judith; Salvador, Nicte ; Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: CD3 HEV Throttle Body Replacements

S/N is as follows; 091903000216
FedEx: 7979 5743 1510

John Rose
Customer Resident Applications Engineer - ETB
Delphi - Customer Technology Center Michigan (CTCM)
3000 University Drive
Auburn Hills, MI 48326
Office Phone: 248-836-0585
Cell: 810-623-6785

From: Langley, Scott (C.S.) [mailto:slangle1@ford.com]
Sent: Wednesday, September 30, 2009 2:00 PM
To: Rosales, Martin; Rose, John A
Cc: O'Neill, Daniel P; Contreras, Claudia Judith; Salvador, Nicte ; Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: FW: CD3 HEV Throttle Body Replacements

The only one of these three that has been shipped back to Delphi is the first one.....**3FADP0L35AR**[redacted]
It would have been shipped back on 9/23.
I couldn't find it on the Paynter chart upon quick review.

I am looking to get an update on its status... received, what tests run, what tests failed, etc.
Any information you could give me before 3:00 today would be VERY helpful!

John,
Could you provide any further tracking information to the team... ETB serial #?

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Rosales, Martin [mailto:martin.rosales@delphi.com]
Sent: Tuesday, September 29, 2009 11:11 AM
To: Langley, Scott (C.S.); O'Neill, Daniel P; Contreras, Claudia Judith; Salvador, Nicte
Subject: RE: CD3 HEV Throttle Body Replacements

Can someone provide the ETB serial numbers in order to track them??

Martin Rosales
Delphi Powertrain- Juarez
Quality/SQE Superintendent
mobile phone 52-1-656-311-4909
office phone (Mex) 656-649-2833
(USA) 915-612-2833
email:martin.rosales@delphi.com
VME node 5216442833

From: Langley, Scott (C.S.) [mailto:slangle1@ford.com]
Sent: Monday, September 28, 2009 8:10 PM
To: O'Neill, Daniel P; Rosales, Martin; Contreras, Claudia Judith; Salvador, Nicte
Subject: FW: CD3 HEV Throttle Body Replacements

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Cardoso, Jesus (Chuy.)
Sent: Monday, September 28, 2009 5:43 PM
To: Langley, Scott (C.S.)
Subject: CD3 HEV Throttle Body Replacements

Hello Scott,

How can help find out if we have root cause on all three Throttle Bodies below? All three vehicles were produced within days of each other and all failed with less than 400 miles on them. Thank you.

VIN_CD	PRODN_DT	MLGE
3FADP0L35A[redacted]	21-Jul-09	196
3FADP0L34A[redacted]	23-Jul-09	153
3FADP0L38A[redacted]	29-Jul-09	355

Regards,
Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

****

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**********USMITRY-MX05**********

From: Langley, Scott (C.S.)
Sent: Thursday, June 04, 2009 2:55 PM
To: Marinelarena, Juan (J.); Morfin, Miguel (M.A.)
Cc: Lardizabal, Sergio (S.); Olivas, Jose Antonio (J.); Armenta, Olga (O.); Learman, Michael (M.S.); Mendoza, Arturo (A.); Montes, Javier (J.); Carrasco, Luis (L.); Chabon, Michael (W.); Bos, Ed (E.A.); Davis, Andrae (A.L.)
Subject: RE: delphi ETB

I didn't expect an SREA on this screening process.
At least at this time, we expect it to be only a temporary screening. So, authority would be the alert.
We did discuss that we'd like to run it on some "launch quantity" of PVD2 parts, but that would still be temporary at this point.

If it can be implemented permanently into their main production process to be run on the ETB, prior to EOL testing, we could consider it a permanent addition to their process. So, my suggestion would be to document that permanent authorization via SREA at that time.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Marinelarena, Juan (J.)
Sent: Thursday, June 04, 2009 2:11 PM
To: Morfin, Miguel (M.A.)
Cc: Langley, Scott (C.S.); Lardizabal, Sergio (S.); Olivas, Jose Antonio (J.); Armenta, Olga (O.); Learman, Michael (M.S.); Mendoza, Arturo (A.); Montes, Javier (J.); Carrasco, Luis (L.); Marinelarena, Juan (J.)
Subject: RE: delphi ETB

I need please the SREA from Delphi, ASAP
Thanks

From: Morfin, Miguel (M.A.)
Sent: Thursday, June 04, 2009 10:53 AM
To: Mendoza, Arturo (A.); Marinelarena, Juan (J.); Montes, Javier (J.)
Subject: delphi ETB

Zero Defect Mindset - "Don't Take It, Don't Make It & Don't Pass It On!!!"

Miguel Angel Morfin Herrera
STA ***Site*** Engineer (FOM)
mmorfin@ford.com
NEW (52) (55) 1103 3552

From: Langley, Scott (C.S.)
Sent: Jueves, 04 de Junio de 2009 10:55 a.m.
To: Morfin, Miguel (M.A.); 'Rosales, Martin'; O'Neill, Daniel P
Cc: Mendoza, Arturo (A.)
Subject: FW: Delphi 9L8E ETB - Alert A12247279 to screen & utilize PVD1 parts

See note below.
I haven't been able to talk to Sergio and Juan directly.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Thursday, June 04, 2009 11:09 AM
To: Marinelarena, Juan (J.); Lardizabal, Sergio (S.)
Cc: Learman, Michael (M.S.); Bos, Ed (E.A.); Chabon, Michael (W.)
Subject: FW: Delphi 9L8E ETB - Alert A12247279 to screen & utilize PVD1 parts

Juan, Sergio,
Sorry I missed your call earlier.
I will page you after I send this.

Two more notes:
- the 0.6 is based on the high end of a 95% confidence interval.
- It is also based on the fact that the screening test caught only 5 of the 6 returns for this issue. And that was the case at both Melexis and Delphi. The sixth part was not caught. So, testing it twice does not improve the likelihood of catching that part. That sixth part is not fully torn down and analyzed yet, so there may be a slightly different aspect of it's failure mode that prevents it from being detected with this screening test.

I understand that Delphi has been requested to screen parts twice. Based on my above explanation, that will not improve the chances of catching the "sixth" part and I believe it increases the risk of other issues associated with handling damage, contamination, etc. So, I would strongly recommend against testing it twice.

Currently, Delphi is testing the sensor before installation to the housing.
We are working with them to see if they can test it after assembly to the throttle body, BUT BEFORE their EOL test.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)

Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bos, Ed (E.A.)
Sent: Thursday, June 04, 2009 10:45 AM
To: Marinelarena, Juan (J.); Langley, Scott (C.S.); Schiltges, Dave (D.); Moore, Andy (A.R.); Ferguson, Dave (D.W.); Fridrich, Joe (J.A.); Schulski, Rebecca (R.A.); Lardizabal, Sergio (S.)
Cc: Learman, Michael (M.S.); 'Rose, John A'; 'O'Neill, Daniel P'; Hall, Brent (A.); Chabon, Michael (W.); Parkinson, Tim (T.M.); Boerger, Jim (J.G.)
Subject: RE: Delphi 9L8E ETB - Alert A12247279 to screen & utilize PVD1 parts

The 0.6 is per 20000 parts, which is 30ppm.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Marinelarena, Juan (J.)
Sent: Wednesday, June 03, 2009 7:20 PM
To: Langley, Scott (C.S.); Schiltges, Dave (D.); Moore, Andy (A.R.); Ferguson, Dave (D.W.); Fridrich, Joe (J.A.); Schulski, Rebecca (R.A.); Lardizabal, Sergio (S.)
Cc: Learman, Michael (M.S.); 'Rose, John A'; 'O'Neill, Daniel P'; Hall, Brent (A.); Chabon, Michael (W.); Bos, Ed (E.A.); Parkinson, Tim (T.M.); Boerger, Jim (J.G.); Marinelarena, Juan (J.)
Subject: RE: Delphi 9L8E ETB - Alert A12247279 to screen & utilize PVD1 parts

Scott
There is a conflict on the description regarding the note of 0.6 defective ETBs, please clarify if this are repair per thousand or PPM,and **input this in the alert**
We'll be calling you 9:00 Am your time
Thanks

From: Langley, Scott (C.S.)
Sent: Wednesday, June 03, 2009 2:21 PM
To: Schiltges, Dave (D.); Moore, Andy (A.R.); Ferguson, Dave (D.W.); Fridrich, Joe (J.A.); Schulski, Rebecca (R.A.); Lardizabal, Sergio (S.); Marinelarena, Juan (J.)
Cc: Learman, Michael (M.S.); 'Rose, John A'; O'Neill, Daniel P; Hall, Brent (A.); Chabon, Michael (W.); Bos, Ed (E.A.); Parkinson, Tim (T.M.); Boerger, Jim (J.G.)
Subject: Delphi 9L8E ETB - Alert A12247279 to screen & utilize PVD1 parts

Team,
Please review the subject alert.
The attached Powerpoint presentation in combination with the alert provides more detail and background.
But the summary is:
- on 5/27, Delphi had committed to utilizing only the Melexis chips from the PVD2 process. (PVD = Physical Vapor Deposition)
- It is superior to PVD1 (from which all of our confirmed chip timing issues have been).
- On 5/27, 56,000 of the pieces still in the pipeline were PVD1 vintage.
- PVD2 have been expedited to Delphi. But, they will still run short for production support over the next couple of weeks.

In parallel to the 5/27 clean date, Delphi have been working with Melexis to develop a screening test for the PVD1 issue. And over the last week, our team has been working with them to confirm our collective understanding of the test and the associated effectiveness.
The alert proposes to utilize a maximum of an additional 20,000 pcs of PVD1 parts screened with this test.
Our evaluation of the **risk is that this would result in the potential of another 0.6 defective ETBs f**or this timing issue.

The presentation provides the basis of that calculation.

Once the engine team has reviewed and concurred, please forward to the appropriate VO representatives.
I will give Tom Bushman a call directly as I've had a lot of direct interaction with him on this issue.
Please call me with any questions.
Thanks. And thanks to the entire t/body team for the high level of effort on this.

<< File: Screening Test for MLX Digital Timing Issue_20090603.ppt >>

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Wednesday, January 05, 2011 10:53 PM
To: Soper, Todd (R.); Rodriguez, Cynthia (C.R.)
Cc: Shelton, Chris (C.E.); Heistan, Sonja (S.S.); Shapardanis, Michael (M.S.); Franco, Hector (H.); Quijada, Jorge (J.); Wilson, David (D.G.); Hewlett, Matt (M.S.); Davis, Andrae (A.L.); Chabon, Michael (W.)
Subject: RE: ECB - ETBs replaced 2011MY - ETB gasket clean date

7/26/2010 is the Continental ETB Build date that is clean for additional curing on the gaskets and assembled through their normal production assembly line.
So, this of course would not include ETBs that were reworked.

7/26/2010 = "10207" on the ETB label.

(They did not run for at least a week before this date. So, this should be a pretty clear breakpoint when looking at parts from the field.)

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Soper, Todd (R.)
Sent: Wednesday, January 05, 2011 10:36 AM
To: Rodriguez, Cynthia (C.R.); Langley, Scott (C.S.)
Cc: Shelton, Chris (C.E.); Heistan, Sonja (S.S.); Shapardanis, Michael (M.S.); Franco, Hector (H.); Quijada, Jorge (J.); Wilson, David (D.G.); Hewlett, Matt (M.S.)
Subject: RE: ECB - ETBs replaced 2011MY
Importance: High

Thanks Cynthia,

It is very interesting why these Fusion ETBs are failing past the VO clean date. We are not seeing this on other models with the same ETB. I am working with Mike S. to get test results on the HSAP ETB failures that are post containment. We will provide that information when it is available.

FYI:

ICA: For TPS gasket curing issue containment. Monday, 02AUG2010 is the VO clean date. Gaskets still being cured at Ford Central Labs and sent to Continental for ETB production. Scott L. please supply the team the Continental build date the correlates to this 02AUG2010 clean date. The Continental ETB build date is found on the white label on the aluminum housing of the ETB. It is the first five numbers on the first line ... YYDDD. For instance: 10222 would be the 222nd day of 2010 which is 10AUG2010.

ICA: Ford Central Labs will continue to cure the TPS gaskets until IEL (Jackson, MI) takes over the process ... early FEB 2011.

PCA: New oven at Accurate (China) installed 15OCT2010 will not be a viable option due to process control, quality, etc. During the past 90 days quality and process review has shown that Accurate is not capable of quality control.

Future PCA: Looking at alternate suppliers and gasket materials ... HNBR, ACM, Vamac and the existing silicon cured @ FNOK.

Todd Soper
D35/37/iVCT Engine Systems Engineer
LGDEE OPD
Cell: 313-805-4247

From: Rodriguez, Cynthia (C.R.)
Sent: Tuesday, January 04, 2011 11:53 AM
To: Soper, Todd (R.)
Cc: Shelton, Chris (C.E.); Heistan, Sonja (S.S.); Langley, Scott (C.S.); Shapardanis, Michael (M.S.); Franco, Hector (H.); Quijada, Jorge (J.)
Subject: ECB - ETBs replaced 2011MY

Todd,
Here you have the claim list with the total of claims related with the ETBs replaced.

And I will appreciate the info with the clean point date.

Thanks.

Cynthia J. Rodriguez Galindo
Powertrain VRT Leader
Phone: (662) 2598379
email: crodr117@ford.com

From: Langley, Scott (C.S.)
Sent: Wednesday, January 27, 2010 11:33 PM
To: Bos, Ed (E.A.)
Subject: RE: Emission Problem Review Committee Fact Sheet Request 09EPRC17

It only takes about 25 returns to get the attention of this group. My understanding that they ultimately look to head off EPA/CARB issues. Those agencies get interested in things that are 4R/1000 and above. They're really interested in "Defective" parts. So, this one draws attention for the Via Hole Returns.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bos, Ed (E.A.)
Sent: Wednesday, January 27, 2010 7:46 AM
To: Langley, Scott (C.S.)
Subject: RE: Emission Problem Review Committee Fact Sheet Request 09EPRC17

I get the note, but I don't see what the issue is….

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Wednesday, January 27, 2010 12:32 AM
To: Chabon, Michael (W.); Hall, Brent (A.)
Cc: Boerger, Jim (J.G.); Bos, Ed (E.A.)
Subject: FW: Emission Problem Review Committee Fact Sheet Request 09EPRC17

See below, FYI.
I spoke to Marie on this yesterday. This meeting occurs ea 2 wks and she offered that we could go on March 9th instead of the Feb. 23rd session that she has scheduled.
I was going to try to take her up on that, but wanted to check with you guys to make sure that wasn't worse for some reason.

We have a lot of background information on this. So, I can handle it no problem as long we go over it together first.
With all of the other things going on right now and the fact that I'll be coming back from vacation on the 22nd, I think it's prudent to go for March 9th.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality

& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Wilson, Marie (M.)
Sent: Tuesday, January 26, 2010 11:00 AM
To: Langley, Scott (C.S.)
Cc: Christensen, Kris (K.S.); McClenaghan, Dave (D.); Patel, Bharat (B.J.)
Subject: Emission Problem Review Committee Fact Sheet Request 09EPRC17

Per our phone conversation yesterday, please prepare an Emission Problem Review Committee (EPRC) Fact sheet for *2009-2010 Escape /Mariner, Fusion/ Milan and Hybrid Throttle position sensor concerns* per the instructions below.

- Obtain EPRC fact sheet at: https://www.tc2.ford.com/ts/VEE/VEPAC/default.aspx (the fact sheet link is listed under "sites" at the left side of the page)
- Review instructions at same link.
- Fill out both pages of the fact sheet as completely as possible. (NOTE: Please use Vehicle Line names like "Fusion" rather than Vehicle line codes like "CD338" in all sections referring to vehicles affected.)
- 09EPRC17 has been assigned to this item. Place this number in the Form Header.
- To facilitate an efficient review of the topic in EPRC, the CCM group will contact you to review the paper in advance of the meeting. Please send the completed copy to me by close of business on the Monday prior to your scheduled EPRC meeting. (No paper copies are necessary for the meeting.)
- Please plan to present this item in the *02-23-10* EPRC meeting at 1PM. Presentations should be made by LL6 or above employees with support from any employees required. Presentations should also be made in person (not via call in.) *Please provide CDS id's for the appropriate meeting notice.*

EPRC Background:

The Emissions Problem Review Committee is chaired by Vehicle Environmental Engineering. It has members from The Automotive Safety Office, Critical Concern Review Group (CCRG) , Critical Concern Manager (CCM), The Ford Customer Service Division (FCSD) - Recall Group, The Office of the General Council (OGC)'
Global Product Development and Vehicle Operations – GRC Manager . It's mission is to review all Production Vehicle/Engine Emission Compliance related issues to determine the correct course of action for the company. Support from the organizations and individuals who have first hand knowledge of emissions compliance related issues is critical to the committee's success.

Thanks in advance for your cooperation and support. Please feel free to contact me with any questions.

Marie Wilson
Ford Motor Company
Vehicle Environmental Engineering
Environment, Energy Planning & Compliance
Phone: 313-248-2404 Fax: 313-594-0338
MWILSO18@FORD.COM

From: Langley, Scott (C.S.)
Sent: Thursday, April 22, 2010 10:31 AM
To: Hall, Brent (A.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

Ahh, that is something I wasn't aware of… that change of facility.

The question is, why aren't parts before 6/19 at risk? I think that will help answer it.

Thanks Brent.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Hall, Brent (A.)
Sent: Wednesday, April 21, 2010 3:21 PM
To: Langley, Scott (C.S.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

Scott,
Looks good.
What TIMING are you looking for in the Cause of Concern & Root Cause section?
We didn't experience the problem until the 6/19 ETB build dates.
It probably corresponds to when CIPSA removed the "normal" manufacturing personal to the start-up of the new facility.

Brent Hall
Air Metering Technical Specialist
bhall60@ford.com
Ford Motor Company
CELL PHONE NUMBER (313) 805-9223

From: Langley, Scott (C.S.)
Sent: Monday, April 19, 2010 10:28 PM
To: Pulay, Kirk (K.); Arbanas, Kelly (K.M.); Post, Kyle (K.R.); Chabon, Michael (W.); Hall, Brent (A.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Boerger, Jim (J.G.)
Subject: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue
Importance: High

Team,
Could you take a look at the attached fact sheet? (EPRC = Emissions Problem Review Committee)

The last time I presented this to the committee, they had a few specific questions and a few scenarios they wanted to understand better.
After discussing with Kirk and Kirk's call to Kelly, this is what I came up with. So, please correct me where I am wrong.

Particular Areas of Focus:

Symptoms… please make sure I've stated these properly.

Causes of the concern…

Mike, there was a line of questioning as to how the causes lined up with the timing of this concern in production.
In other words, how do we know it only started in June.
I think we probably need to speak to the known suspect lot here.
But, I don't think we can say the root causes weren't present beforehand.

Effect on Emmissions… This is VERY important.

We're saying the standards can be exceeded in limp home, but not in pedal follower.

Effect on OBD system Compliance… Another VERY important point for the committee

Two ways they ask the question:

- Are there any monitors that can't operate without the TPS signal?
- Does this condition and/or the associated FMEM cause other OBD systems not to operate?

Thank you very much for any input you can provide.

<< File: EPRC Fact Sheet- 09EPRC17 - ETB Via Hole mfg defect rev 3.doc >>

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, April 20, 2010 11:26 AM
To: Post, Kyle (K.R.); Pulay, Kirk (K.); Arbanas, Kelly (K.M.); Chabon, Michael (W.); Hall, Brent (A.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Boerger, Jim (J.G.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

Thanks Kyle. I appreciate the input.
I will revise the Fact Sheet appropriately.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Post, Kyle (K.R.)
Sent: Tuesday, April 20, 2010 8:26 AM
To: Langley, Scott (C.S.); Pulay, Kirk (K.); Arbanas, Kelly (K.M.); Chabon, Michael (W.); Hall, Brent (A.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Boerger, Jim (J.G.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

Scott,
When we enter RPM Guard mode, which includes pedal follower and default throttle, a number of emission tests disable. A wrench light is set immediately and the DTC codes which trigger the mode are set to MIL.

During pedal follower injectors are cut for practically every tip-out. I do not know what impact this has on emissions.

Thanks,
Kyle Post
Ford Motor Company
PCSE
Certified Black Belt
kpost1@ford.com
Phone: (313) 805-0020

From: Langley, Scott (C.S.)
Sent: Monday, April 19, 2010 10:28 PM
To: Pulay, Kirk (K.); Arbanas, Kelly (K.M.); Post, Kyle (K.R.); Chabon, Michael (W.); Hall, Brent (A.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Boerger, Jim (J.G.)
Subject: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue
Importance: High

Team,
Could you take a look at the attached fact sheet? (EPRC = Emissions Problem Review Committee)

The last time I presented this to the committee, they had a few specific questions and a few scenarios they wanted to understand better.
After discussing with Kirk and Kirk's call to Kelly, this is what I came up with. So, please correct me where I am wrong.

Particular Areas of Focus:

Symptoms… please make sure I've stated these properly.

Causes of the concern…

Mike, there was a line of questioning as to how the causes lined up with the timing of this concern in production.
In other words, how do we know it only started in June.
I think we probably need to speak to the known suspect lot here.
But, I don't think we can say the root causes weren't present beforehand.

Effect on Emmissions… This is VERY important.

We're saying the standards can be exceeded in limp home, but not in pedal follower.

Effect on OBD system Compliance… Another VERY important point for the committee

Two ways they ask the question:

- Are there any monitors that can't operate without the TPS signal?
- Does this condition and/or the associated FMEM cause other OBD systems not to operate?

Thank you very much for any input you can provide.

<< File: EPRC Fact Sheet- 09EPRC17 - ETB Via Hole mfg defect rev 3.doc >>

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, May 04, 2010 9:30 AM
To: Jentz, Robert (R.R.); Pulay, Kirk (K.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

Thank you very much, Bob.
That helps.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Jentz, Robert (R.R.)
Sent: Tuesday, May 04, 2010 7:44 AM
To: Langley, Scott (C.S.); Pulay, Kirk (K.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

The MAF diagnostics aren't affected by a TPS failure. A TPS failure will inhibit the following monitors from running for the current drive cycle only:

1) EGR excessive and insufficient flow
2) Catalyst efficiency monitor
3) O2 Sensors
   3a) Upstream response test
   3b) Downstream functional test
   3c) CMS response test
   3d) Lack-of-switching
   3e) FAOS monitor
4) EVAP system cruise test (0.040" & 0.090" leak checks)
5) VCT monitor target error
6) Air-fuel imbalance monitor

These are the subsystem functional/rationality tests. Not the component level circuit tests.

Bob Jentz
OBD Monitor Technical Expert
Ford/CAPE/GPCSE
Bldg #2 / 22J39
E-mail: rjentz@ford.com
Phone: 313 805-7210
Fax: 313 621-4571

From: Langley, Scott (C.S.)
Sent: Tuesday, May 04, 2010 12:35 AM
To: Jentz, Robert (R.R.); Pulay, Kirk (K.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

Bob,
Thanks.
Just to clarify...
So, even though the MAF Sensor would still be operable, we don't have air flow related OBD diagnostics without the Throttle position signal?

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Jentz, Robert (R.R.)
Sent: Tuesday, April 20, 2010 2:36 PM
To: Pulay, Kirk (K.)
Cc: Langley, Scott (C.S.)
Subject: RE: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue

The TPS failure you describe below will inhibit many of our OBD diagnostics (all that are air flow related). However, this is not an OBD compliance concern since we detect the TPS failure and illuminat the MIL as a result.

Bob Jentz
OBD Monitor Technical Expert
Ford/CAPE/GPCSE
Bldg #2 / 22J39
E-mail: rjentz@ford.com
Phone: 313 805-7210
Fax: 313 621-4571

From: Pulay, Kirk (K.)
Sent: Tuesday, April 20, 2010 8:30 AM
To: Jentz, Robert (R.R.)
Cc: Langley, Scott (C.S.)
Subject: FW: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue
Importance: High

Bob,

Quick question pertaining to OBD system compliance - does the Ford SW mask other subsystem monitors if a ETB fault is detected? With this particular failure, we typically see TP out of range codes (P0122, , P0223), correlation errors (P2135) and some stuck codes (P2111, P2112) and we enter pedal follower or default throttle FMEM mode.

See EPRC fact sheet below for details.

Thanks,

Kirk Pulay
Component C - Hardware/Controls Interface
Building 1, 2nd Floor, Cubical 12B098
☎ Phone: (313) 805-9370
Fax: (313) 248-9026

From: Langley, Scott (C.S.)
Sent: Monday, April 19, 2010 10:28 PM
To: Pulay, Kirk (K.); Arbanas, Kelly (K.M.); Post, Kyle (K.R.); Chabon, Michael (W.); Hall, Brent (A.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Boerger, Jim (J.G.)
Subject: EPRC Fact Sheet 09EPRC17 - Delphi Via Hole Issue
Importance: High

Team,
Could you take a look at the attached fact sheet? (EPRC = Emissions Problem Review Committee)

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In other words, how do we know it only started in June.
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- Does this condition and/or the associated FMEM cause other OBD systems not to operate?

Thank you very much for any input you can provide.

<< File: EPRC Fact Sheet- 09EPRC17 - ETB Via Hole mfg defect rev 3.doc >>

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Boerger, Jim (J.G.)
Sent: Monday, January 04, 2010 4:21 PM
To: Shapardanis, Michael (M.S.)
Cc: Langley, Scott (C.S.)
Subject: RE: Escape/ Fusion 9L8E claims

Thanks for the updates, Mike …

Please let me know how that "hot process" analysis turns out - thanks Jim

PS: are you able to conduct Same Point In Time (SPIT) analysis? If so, hour would the October, November, and December build dates compare with earlier periods?

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Shapardanis, Michael (M.S.)
Sent: Monday, January 04, 2010 12:21 PM
To: Boerger, Jim (J.G.)
Cc: Langley, Scott (C.S.)
Subject: Escape/ Fusion 9L8E claims

Jim,
Attached are the 9L8E ETB claims by production date for the 2010 Fusion, 2009/ 2010 Escape and for the 2010 Escape.
<< File: FUSION ETB 1-4-2010.pdf >> << File: 2009-2010 ESCAPE 1-4-2010.pdf >> << File: 2010 escape claims 1-4-10.pdf >>
There are 4 claims after the Oct 1, 2009 production dates, the first 3 ETB's have been "Hot Processed". The forth part was scrapped at the dealership.

1. 2010 Marineer- prod date 10/20/2009- No codes ETB replaced, after the ETB was replaced had a P0627 code (fuel pump A control circuit open) replaced fuel pump.
2. 2010 Escape- prod date 10/30/2009- P2135, P2111 and P0211 (typo??). ETB replaced.
3. 2010 Fusion- prod date 12/4/2009- P115E (Throttle actuator control throttle airflow trim at max limit). ETB replaced.
4. 2010 Fusion- prod date 10/23/2009- P0122. ETB replaced (scrapped at dealer).

Mike Shapardanis
V- Engine Engineering
Air Metering
Ford Motor Company
Cell: (313) 805-8801
Email: mshapard@ford.com

From: Bushman, Thomas (T.S.)
Sent: Tuesday, May 03, 2011 5:17 PM
To: Langley, Scott (C.S.); Rodriguez, Cynthia (C.R.); Castillo, Luis Antonio (L.); Gonzalez, Aureliano Jos (A.J.)
Cc: Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.); Castillo, Luis Antonio (L.); Montes, Javier (J.); Chabon, Michael (W.)
Subject: RE: ETB Failures on U377 & CD3

Scott -

Thanks for the update.

As a standard process for KCAP, I always forward any ETB claim we get to you and your team to request back - we know not to submit a request for the part - they are all to go to you and your team.

Luis / Aureliano -- can you please assist Scott Langley in getting back ETBs from the Mexican Market? Thanks guys!

Scott - please forward the Mexican claims to Luis and Aureliano - they do a fantastic job in getting parts back!

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Langley, Scott (C.S.)
Sent: Monday, May 02, 2011 10:08 AM
To: Rodriguez, Cynthia (C.R.); Bushman, Thomas (T.S.)
Cc: Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.); Castillo, Luis Antonio (L.); Montes, Javier (J.); Chabon, Michael (W.)
Subject: RE: ETB Failures on U377 & CD3

Cynthia, Tom,
We will provide you with the detailed analysis. Andrae will report against your ECB list.
But upon a quick review of these, I don't see any that exceed the latest corrective action dates for the motor issues we have found.
The latest date I see on your list is 3/11/2011. We had additional corrective actions associated with the motor that ranged from 3/16 to 4/20.

Can I ask for your help by having your teams remove any competing 700 tag requests for these parts, at least for U.S. & Canada?
We are not getting 100% of the parts back and we should be based on our requests.
For U.S. and Canada, I would like to ensure that the requests of my team are the only requests. Those parts should come through here (Bldg 1) for initial testing and triage. Following triage, our Delphi Resident Engineer ships the part (or

components) to the most appropriate location… Delphi Mfg Plant, Delphi Mexico Tech Center, Delphi Rochester Tech Center, subsuppliers, etc.

The one area where we could use your help would be in obtaining warranty returns from the Mexican market. We do have trouble getting those, even with a specific "Hot Request."
If your teams (specifically HSAP or ChEP) have better luck getting those based on your proximity or communication abilities, that would help.
I don't have any specific returns in this situation right now. But, this is a general issue.

If/When you do forward warranty returned parts to suppliers/engineering, especially hot request parts:

1) **Please ensure that a VIN is referenced on or attached to the returned part when sent to supplier.**
   This is a must to be able to match up vehicle symptoms to part analysis.
   The hot requested parts usually don't get the "tag" or claim sheet sent with them by the dealers.
   But, they do usually notate the VIN.

2) **It is helpful if you can print out the claim sheet from AWS before sending the part to the supplier.**
   But, Delphi has access to that if they have the VIN.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Rodriguez, Cynthia (C.R.)
Sent: Friday, April 29, 2011 12:01 PM
To: Langley, Scott (C.S.); Chabon, Michael (W.)
Cc: Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.); Bushman, Thomas (T.S.); Castillo, Luis Antonio (L.); Montes, Javier (J.)
Subject: RE: ETB Failures on U377 & CD3

Hi Scott / Michael
We are receiving some claims related with the ETB on 2.5L & 3.0L engine.

Here you have the total of claims, do you have the last status? What was the analysis in the last warranty parts recovered?

The ETB from 2.5L engine are marked with blue and for 3.0L are marked with yellow.

I will appreciate al kind of info to share with all the team.

Thanks.

<< File: ETBs replaced at Apr-29-11.xls >>

Cynthia J. Rodriguez Galindo
HSAP Powertrain VRT Leader
email: crodr117@ford.com
Office: (662) 259-8379

From: Langley, Scott (C.S.)
Sent: Tuesday, March 15, 2011 2:18 PM
To: Bushman, Thomas (T.S.); Chabon, Michael (W.)
Cc: Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Rodriguez, Cynthia (C.R.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.)
Subject: RE: ETB Failures on U377

Tom,
I tried to update this today, but it looks like I only have read access.
Could you add me and give me Update access?
Thanks.

I will be out of the office tomorrow, but can update it Thursday.
(I can try in the evening tomorrow, but no guarantees.)

Ultimately, we may end up binning this with one of the (2) TiVCT BSAQs that address root causes that might apply here.
Those ETBs are of the same basic design as yours.
We need to do a little more analysis, but if you get a chance to update this you can estimate an ICA implementation of 3/31 on this project.
Then, we can re-bin later if it fits one of the TiVCT projects.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bushman, Thomas (T.S.)
Sent: Wednesday, March 09, 2011 2:53 PM
To: Langley, Scott (C.S.); Boerger, Jim (J.G.); Chabon, Michael (W.)
Cc: Powers, Ken (K.W.); Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Quijada, Jorge (J.); Rodriguez, Cynthia (C.R.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.)
Subject: RE: ETB Failures on U377

Scott - thanks for the update. The best way to keep all of us in the loop is to keep the projects up to date in eBSAQ. I've added a new one (SAQ2011165368) that documents the P0121 Fault Codes we're seeing as well. If you could have someone please add the ICA/PCA for that project I'd really appreciate it.

Thanks.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Langley, Scott (C.S.)
Sent: Wednesday, March 09, 2011 8:51 AM
To: Bushman, Thomas (T.S.); Boerger, Jim (J.G.); Chabon, Michael (W.)
Cc: Powers, Ken (K.W.); Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Quijada, Jorge (J.); Rodriguez, Cynthia (C.R.); Parkinson, Tim (T.M.); Davis, Andrae (A.L.); Shapardanis, Michael (M.S.)
Subject: RE: ETB Failures on U377

Tom,
They might be climbing in rank, but since Sept '10, there are just one or two claims per month for ECB.
That said, we are addressing each and every claim, including TNI's and including those above and beyond ECB.
And, there are recent actions at Delphi.
We are meeting with Delphi and will get those actions summarized and documented in appropriate BSAQ.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bushman, Thomas (T.S.)
Sent: Tuesday, March 08, 2011 1:11 PM
To: Boerger, Jim (J.G.); Chabon, Michael (W.); Langley, Scott (C.S.)
Cc: Powers, Ken (K.W.); Crudo, Frank (F.J.); Immonen, Mark (M.); Schiltges, Dave (D.); Lardizabal, Sergio (S.); Quijada, Jorge (J.); Rodriguez, Cynthia (C.R.)
Subject: ETB Failures on U377

Jim / Mike / Scott --

ETBs are starting to climb on our ECB Summary ranking again --- ETB is now up to the #10 spot for the last 4 months of production.

Do we have any significant, recent actions Delphi has taken in their processes to cut-off what is getting out to customers?

<< File: U377_PT_Bin Paynter_(03-08-11).xls >>

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Powers, Ken (K.W.)
Sent: Tuesday, March 08, 2011 12:01 PM
To: Bushman, Thomas (T.S.)
Subject: RE: 2.5L Termostat failures

What about Throttle Bodies?

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

From: Bushman, Thomas (T.S.)
Sent: Tuesday, March 08, 2011 10:43 AM
To: Powers, Ken (K.W.)
Subject: RE: 2.5L Termostat failures

We should follow-up on VCT as well. They can be a double-header.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Powers, Ken (K.W.)
Sent: Tuesday, March 08, 2011 9:16 AM
To: Bushman, Thomas (T.S.)
Subject: RE: 2.5L Termostat failures

Candidate for VQR in 2 weeks.

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

From: Bushman, Thomas (T.S.)
Sent: Tuesday, March 08, 2011 9:13 AM
To: Lardizabal, Sergio (S.); 'jwatson@prettl.com.mx'; 'Scott.Howes@us.behrgroup.com'; Rodriguez, Cynthia (C.R.); Quijada, Jorge (J.); Marinelarena, Juan (J.); Castillo, Luis Antonio (L.); Montes, Javier (J.); Gonzalez, Aureliano Jos (A.J.); Urquidi, Ernesto (E.); Gomez, Roberto (I.R.); Provagna, John (J.D.); Copp, Anthony (A.R.); Aldana, Oswaldo (OA.); Carrasco, Luis (L.); Franco, Hector (H.); Crudo, Frank (F.J.); Immonen, Mark (M.)
Cc: Powers, Ken (K.W.); Sparks, Douglas (D.S.)
Subject: 2.5L Termostat failures

The 2.5L T-Stat is now ranked 4th in the U377 ECB Powertrain Warranty -- this is a jump from the 6th position last week. At the rate the T-Stat Claims are coming in this could soon replaced the 2.5L VCT for the #1 position (moving 2.5L VCT to the #2 position).

Summary attached:

<< File: U377_PT_Bin Paynter_(03-08-11).xls >>

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Lardizabal, Sergio (S.)
Sent: Monday, March 07, 2011 2:54 PM
To: Lardizabal, Sergio (S.); 'jwatson@prettl.com.mx'; 'Scott.Howes@us.behrgroup.com'; Bushman, Thomas (T.S.); Rodriguez, Cynthia (C.R.); Quijada, Jorge (J.); Marinelarena, Juan (J.); Castillo, Luis Antonio (L.); Montes, Javier (J.); Gonzalez, Aureliano Jos (A.J.); Urquidi, Ernesto (E.); Gomez, Roberto (I.R.); Provagna, John (J.D.); Copp, Anthony (A.R.); Aldana, Oswaldo (OA.); Carrasco, Luis (L.); Franco, Hector (H.)
Subject: 2.5L Termostat failures
When: Tuesday, March 08, 2011 12:30 PM-1:30 PM (GMT-06:00) Central Time (US & Canada).
Where: Audio (ph. 621 3673; mtg id

Follow up on assignments/investigation from 3/4/2011. List of assignments sent in a separate note.

From: Schiltges, Dave (D.)
Sent: Wednesday, January 20, 2010 2:57 PM
To: Horbal, Colin (C.P.); Bushman, Thomas (T.S.); Langley, Scott (C.S.); Boerger, Jim (J.G.); Ferguson, Dave (D.W.); Schulski, Rebecca (R.A.); Chabon, Michael (W.); Armenta, Olga (O.); Marinelarena, Juan (J.); Maurer, James (J.B.); Makowski, Scott (S.A.); Selthofer, Adam (A.); Durand, Gerardo (G.D.); Barrera, Vicente (V.T.); Ramirez, Mauricio (M.R.); Powers, Ken (K.W.)
Cc: Moore, Andrew (R.); Castillo, Luis Antonio (L.); Sparks, Douglas (D.S.); Parnell, Bill (W.); King, Lamar (L.L.)
Subject: RE: ETB issue - STOP SHIP ALERT A12315232- CANCELLED

Team,

Subsequent to the 12pm discussion with HSAP and ChEP today, our Director Bob Fascetti reviewed the latest information on this issue and decided to lift the stop ship, as the risk level for this issue getting to our customer has been determined to be low. The stop ship alert will be recommended for closure.

Dave Schiltges
Supervisor D30
On-Going Product Development
Phone: 313-205-2197

From: Schiltges, Dave (D.)
Sent: Wednesday, January 20, 2010 10:15 AM
To: Horbal, Colin (C.P.); Bushman, Thomas (T.S.); Langley, Scott (C.S.); Boerger, Jim (J.G.); Bushman, Thomas (T.S.); Ferguson, Dave (D.W.); Schulski, Rebecca (R.A.); Chabon, Michael (W.); Armenta, Olga (O.); Marinelarena, Juan (J.); Maurer, James (J.B.); Makowski, Scott (S.A.); Selthofer, Adam (A.); Durand, Gerardo (G.D.); Barrera, Vicente (V.T.); Ramirez, Mauricio (M.R.); Powers, Ken (K.W.)
Cc: Moore, Andrew (R.); Castillo, Luis Antonio (L.); Sparks, Douglas (D.S.); Parnell, Bill (W.); King, Lamar (L.L.); Wright, Robin (R.A.)
Subject: RE: ETB issue - STOP SHIP ALERT A12315232

STOP SHIP Alert A12315232 has been written to contain all engines and vehicles with I4 and V6 engines at HSAP and KCAP with throttle bodies that have TPS date codes of 344, 345, and 346.

Dave Schiltges
Supervisor D30
On-Going Product Development
Phone: 313-205-2197

From: Horbal, Colin (C.P.)
Sent: Wednesday, January 20, 2010 9:32 AM
To: Bushman, Thomas (T.S.); Langley, Scott (C.S.); Boerger, Jim (J.G.)
Cc: Schiltges, Dave (D.); Moore, Andrew (R.); Castillo, Luis Antonio (L.); Sparks, Douglas (D.S.)
Subject: RE: ETB issue

Do it.

Colin Horbal
Manager, LGDEE OPD/Quality Dept
Phone: 313-845-7581
Cell Phone: 313-805-5734
Text Page: chorbal

From: Bushman, Thomas (T.S.)
Sent: Tuesday, January 19, 2010 10:02 AM
To: Langley, Scott (C.S.); Boerger, Jim (J.G.)
Cc: Horbal, Colin (C.P.); Schiltges, Dave (D.); Moore, Andrew (R.); Castillo, Luis Antonio (L.); Sparks, Douglas (D.S.)
Subject: FW: ETB issue
Importance: High

Scott / Jim --

We've audited approximately 50 2.5L Engines and 50 3.0L Engines so far.

Approximately 1/3 of our 2.5L Inventory has this suspect build date of 345.

We have not found any on the 3.0L so far.

If we are going to call a STOP-SHIP let's be quick about it because we are in the thick of it right now for the 2.5L.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Moore, Andrew (R.)
Sent: Tuesday, January 19, 2010 6:53 AM
To: Bushman, Thomas (T.S.)
Cc: Moore, Andrew (R.); Schiltges, Dave (D.); Olmos, Nancy (N.); Ferguson, Dave (D.W.); Binger, Charlie (C.F.)
Subject: ETB issue
Importance: High

Tom, I was notified this morning of a quality issue with the Delphi ETB. HSAP has encountered a EOL code #P2111. ChEP has also had a cold test failure for the same failure mode. According to Delphi this defect is contained to TPS build date of 345. CEP 2 and ChEP are currently inspecting all engines and loose ETB's for this date.

It is not clear weather or not this date is has been installed on the V6, but it has been installed for sure on the I4 based on the HSAP failure. Can you please watch for any P2111 codes on the V6 or I4 products.

Attached is a file for the criteria CEP 2 is using to sort.

I will get back with you later today when we have more info.

Feel free to call my cell if you have any questions.

Andy

<< File: SEC-AC-07-1 559- CODE 345.xls >>

From: Bushman, Thomas (T.S.)
Sent: Tuesday, January 19, 2010 5:32 PM
To: Langley, Scott (C.S.)
Cc: Boerger, Jim (J.G.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Chabon, Michael (W.); Schiltges, Dave (D.)
Subject: RE: ETB plant returns

10-4, thanks Scott.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Langley, Scott (C.S.)
Sent: Tuesday, January 19, 2010 3:00 PM
To: Bushman, Thomas (T.S.)
Cc: Boerger, Jim (J.G.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Chabon, Michael (W.); Schiltges, Dave (D.)
Subject: RE: ETB plant returns

Tom,
The next clean cutoff will probably be a switch to a different PCB supplier… "Via Systems" instead of CIPSA.
Delphi may have a functional build ready to go to engine plants as soon as next week.
When those get to you guys, we'll just ask for some help in tracking them through.

We'll keep you posted and make a more formal communication as this approaches..

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bushman, Thomas (T.S.)
Sent: Tuesday, January 19, 2010 12:40 PM
To: Langley, Scott (C.S.)
Cc: Boerger, Jim (J.G.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Chabon, Michael (W.)
Subject: RE: ETB plant returns

Scott - thanks for the update. Please let me know when we have a cut-off date coming out of Delphi.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Langley, Scott (C.S.)
Sent: Monday, January 18, 2010 11:38 AM
To: Bushman, Thomas (T.S.)
Cc: Boerger, Jim (J.G.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Chabon, Michael (W.)
Subject: RE: ETB plant returns

Tom,
We are also working with Delphi on (3) recent plant returns, one from each of ChEP, Hermosillo and KCAP.
(2) of those show a VIA hole defect. The KCAP return is inconclusive.
All three apparently came through ChEP.

We are meeting with Delphi on a daily basis and are still looking for further information from the PCB supplier, CIPSA, to understand the full scope and risk. There is a Delphi rep there today, despite the holiday in India.
We should know more later this afternoon.

Both ChEP and CEP should now be aware of the situation.
ChEP personnel have been leading half of the conference calls.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Sunday, January 17, 2010 10:56 PM
To: Bushman, Thomas (T.S.)
Cc: Boerger, Jim (J.G.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Chabon, Michael (W.)
Subject: RE: Failed ETB on a December Built U377

Tom,
Mike is planning to call the dealer 1st thing Monday.
Note that we have 9 claims post 10/1 vehicle build date, including both Fusion/Milan and Esc/Mar 2.5l, 2.5l HEV and 3.0l app's.
I'll send you the summary.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine

(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bushman, Thomas (T.S.)
Sent: Friday, January 15, 2010 4:58 PM
To: Chabon, Michael (W.); Langley, Scott (C.S.)
Cc: Boerger, Jim (J.G.)
Subject: Failed ETB on a December Built U377

Mike / Scott

Please see attached claim report. Can one of your, or one your team members, please call this dealer and request this ETB back for analysis.

Thanks.

<< File: ETB_AKB61125.pdf >>

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Cardoso, Jesus (Chuy.)
Sent: Tuesday, October 06, 2009 11:22 AM
To: Tedone, Damian (D.J.)
Cc: Regan, Andrew (A.D.); Trizon Dyck, Javier (J.T.); Hayes, Dave (D.L.); Learman, Michael (M.S.); Langley, Scott (C.S.)
Subject: RE: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

Damian, we discussed TBs last week at my CTMT. I want to give Mike and Scott some time get the part back and evaluate it before we bring them back in to give status on the TB mentioned below. The vehicle below is on the borderline of the ICA which was implemented on 8/16 and the PCA which was implemented on 8/24. We will have to wait until Scott's team completes their analysis.

Regards,

Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Tedone, Damian (D.J.)
Sent: Tuesday, October 06, 2009 8:11 AM
To: Learman, Michael (M.S.); Hayes, Dave (D.L.)
Cc: Regan, Andrew (A.D.); Cardoso, Jesus (Chuy.); Trizon Dyck, Javier (J.T.)
Subject: FW: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

Part request back through HOT process reference req # 4117.

Mike, TB with vehicle build date in August. Should this not have been contained? Chuy can you add to the CMT meeting inviting the TB team to discuss if you think that is appropriate? Thanks.

Have a Blessed Day

Damian Tedone
HEV Controls Applications & Torque Monitor Supervisor
Integrated Six Sigma Master Black Belt
Sustain Mobility Tech Lab – II Cube 2AB04
15000 Commerce Drive North Dearborn, MI 48120
Ford Motor Company
dtedone@ford.com <mailto:dtedone@ford.com>
☎PHONE 313-594-7606

See Ford's HEV website: http://www.fordvehicles.com/escapehybrid

---

From: Gee, Tom (T.S.)
Sent: Monday, October 05, 2009 6:06 AM
To: Hayes, Dave (D.L.); Thompson, Wayne (W.M.)
Cc: Tedone, Damian (D.J.); Treharne, David (W.D.)
Subject: FW: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

9JBC4008 - HV battery low voltage DTC and shutdown. Wayne, you may want to follow-up on this one.
9JBBI004 - Potential bad T'body. Aug build date. If replaced, let's get this T'body back.

Thomas S. Gee
Manager, Controls and Strategy Implementation
SMT & Hybrid Technologies
Ford Motor Company
Phone: (313) 805-2978, Fax: (313) 317-4551
SMTLII, 2CA19

From: BBRADCOS [mailto:BBRADCOS]
Sent: Saturday, October 03, 2009 1:47 PM
To: TGEE
Subject: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

This email contains 7 report summary(s).

Attachments : 3

Report# :	9JBEB874 NHLDIG--or-- HD 200900273784			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L39AR[redacted]			**Build Date:**	09/01/2009
Odometer :	166 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 02865 Ford of Ocala Inc			**Phone#:**	(352) 732-4800
City:	Ocala	**State:**	Florida	**Country :**	USA
Originator:	Tom Leonard				
Symptom:	4 99 1 00 ENGINE,GENERAL CONCER,APPEARANCE,OTHER-CODE NA				
Status:					
VFG:	V44 POWERTRAIN MALFUNCTION				
Additional Symptom:	Processed				
Fix:	**Causal Component :**		--		
Condition Code:					

Region Code: S3 **Region Name:** Orlando

DTCs:
KOEO:
KOEC:
KOER:

Comments :

CONCER	10/02/2009 01:15PM Cust. states the engine cover is cracked. advise. Intend to replace cover
RECOMM	**10/02/2009 01:15PM** Engine cover will not require DI approval. Thank you for taking the time to submit pictures and info an engineering report will be generated using the info you have provided. Thanks, Eric

Please click on the link below to view the attachments associated with this report
https://www.gcqis.dealerconnection.com/gcqis/asp/DIViewAttachment_Mainx.asp?ReportNumber=9JBEB874

Attachments : 0

Report# :	9JBAY011 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L31AR[redacted]			**Build Date:**	08/07/2009
Odometer :	5 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04962 World Ford-Pensacola			**Phone#:**	(850) 479-1311
City:	Pensacola	**State:**	Florida	**Country :**	USA
Originator:	MICHAEL MATKOWSKI				
Symptom:	2 03 3 00 ELECT.,START/CHARGE,STARTING SYSTEM,OTHER-CODE NA				
Status:					
VFG:	V19 ELECTRICAL POWER				
Additional Symptom:	REMOTE START QUESTION				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: JJASKULA **Phone:** 000 248-8201 **Regn Cd:** S3 Orlando

Engineering: **Phone:** **TAR:**

Dlr Contact: MICHAEL MATKOWSKI **Phone:** 850 476-9050 **Title Cde:** T

DTCs:
KOEO:
KOEC:
KOER:

Comments :

REPAIR	10/02/2009 10:52AM JAMES JASKULA MSS - FCSD - TECH SVC HOTLINE WEB FORM DATA - CONCERN: INSTALL REMOTE START SYSTEM DIAGNOSTICS: NONE PARTS REPLACED:: NONE TECH QUESTION: IS REMOTE START AVAILABLE AND COMPATIBLE ON HYBRID VEHICLE. WERE YOU ABLE TO VERIFY THE CONCERN? NO IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR THIS CONCERN? NO WAS THE PINPOINT TEST FOLLOWED? NO
RECOMM	**10/02/2009 10:52AM JAMES JASKULA MSS - FCSD - TECH SVC HOTLINE** MIKE, THE DEALER INSTALLED ACCESSORIES SHOWS THERE ARE 2 UNITS AVAILABLE. SERIES 100, ONE-BUTTON REMOTE START SYSTEM REMOTE START BI-DIRECTIONAL 100 SERIES HAVE A GREAT DAY,JAMIE.

Attachments : 0

Report# :	9JBBM002 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L33AR[redacted]			**Build Date:**	03/11/2009
Odometer :	6,706 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04227 Germain Ford			**Phone#:**	(614) 889-7777
City:	Columbus	**State:**	Ohio	**Country :**	USA
Originator:	JIM SCOTT				
Symptom:	2 07 3 37 ELECT.,ENTERTAINMENT ,FUNCTION,RADIO				
Status:					
VFG:	V81 ENTERTAINMENT & COMMUNICATION				
Additional Symptom:	U0238 NO SOUND				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: IPUSTA **Phone:** 313 317-9298 **Regn Cd:** G3 Cincinnati

Engineering: **Phone:** **TAR:**

Dlr Contact: JIM SCOTT **Phone:** 614 889-7777 **Title Cde:** T

DTCs:

KOEO:U0238

KOEC:

KOER:

Comments:

REPAIR 10/02/2009 09:31AM IONET PUSTA MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CAME IN, NO CRANK,NO START, AUX BATTERY RAN
DOWN COMPLETELY. NUMEROUS FAULT CODES, REPAIRS MADE PER TSB 09-14-3, STILL HAS FAULT U0238, RADIO NO SOUND DIAGNOSTICS: EEC/BCM TESTS, TSB 09 14 3 PARTS REPLACED:: NONE TECH QUESTION: SUSPECT DEFECTIVE AUDIO CONTROL MODULE CONCERN. ANY RELATED CONCERNS? WERE YOU ABLE TO VERIFY THE CONCERN? YES IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR THIS CONCERN? YES WAS THE PINPOINT TEST FOLLOWED? YES

RECOMM 10/02/2009 09:31AM IONET PUSTA MSS - FCSD - TECH SVC HOTLINE
HELLO JAMES, THERE ARE NO HOTLINE REPORTS FOR THIS CONCERN. I RECOMMEND TO PERFORM PINPOINT TEST AL IN THE ONLINE WSM SECTION 415-00
FOR THIS CONCERN.

REPAIR 10/02/2009 10:12AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE
TECHNICIAN REPLY: PERFORMED PP TEST AL, PASSES NETWORK TEST, FOR ACM, SELF TEST ACM ON DEMAND PASS, CONTINOUS STILL HAS FAULT U0238-00-0A. WORKSHOP MANUAL ALSO SAYS TO TO PERFORM DSP MODULE TESTS, HAS NO COMMUNICATION WITH DSP MODULE, SUSPECT NOT EQUIPPED WITH DSP MODULE???? ANY IDEA, HAS NAV SYSTEM. ANYWAYS, SELP TESTING, LEADS TO REPLACMENT OF ACM MODULE, INCONCLUSIVE IF I HAVE DSP MODULE AND IF IT
SHOULD REPLACED PER PP TEST AL. TAKE A LOOK AT THE TEST AND TELL ME?

RECOMM 10/02/2009 10:12AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE
JAMES, BECAUSE THIS VEHICLE IS EQUIPPED WITH THE SONY SOUND SYSTEM, IT HAS A DSP MODULE. THE SCHEMATIC FOR THIS SYSTEM IS LOCATED IN ONLINE WIRING DIAGRAM CELL 130-11. AT THIS TIME, RECOMMEND YOU CARRY OUT PINPOINT TEST W FROM ONLINE WORKSHOP MANUAL SECTION 418-00 FOR NO
COMMUNICATION WITH THE DSP MODULE. ENSURE YOU FOLLOW THE STEPS FOR THE
SONY MODULE, AS THE THX SYSTEM DOES NOT FUNCTION THE SAME AND USES DIFFERENT CONNECTOR AND PIN NUMBERS. IF NECESSARY, A DSP MODULE FROM
ANOTHER SONY SOUND EQUIPPED 2010 FUSION CAN BE SWAPPED INTO THIS

VEHICLE FOR TESTING PURPOSES.

REPAIR **10/02/2009 01:47PM ALEXANDER ROGERS MSS - FCSD - TECH SVC HOTLINE**

-VEHICLE EXHIBITS INTERMITTENT MUTING OF AUDIO IN ALL MODES. TECH NOTES WHEN THE CONCERN OCCURS, THE DSP MODULE DOES NOT COMMUNICATE.

-VEHICLE ALSO EXHIBITS AN INTERMITTENT BATTERY DRAW.

RECOMM **10/02/2009 01:47PM ALEXANDER ROGERS MSS - FCSD - TECH SVC HOTLINE**

-WHEN THE CONCERN IS PRESENT, REFER TO PAGE 130-1 OF THE EVTM AND MONITOR VOLTAGE ON PIN 15 OF C240A WHEN THE CONCERN IS PRESENT. IF VOLTAGE EXCEEDS .1 VOLTS, REMOVE THE CIRCUIT FROM THE CONNECTOR AND RE

EVALUATE THE CONCERN. IF THE CONCERN IS CORRECTED, ISOLATE THE SOURCE

OF THE UNWANTED VOLTAGE. -IF NO VOLTAGE CONCERNS ARE PRESENT AT PIN 15 OF C240A, RE CHECK FOR DSP COMMUNICATION, IF THE DSP MODULE DOES NOT COMMUNICATE, REFER BACK TO PINPOINT TEST W IN SECTION 418-00.

Attachments : 0

Report# :	9JBBL007 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,MILAN,HYBRID ,SEDAN ,3MEDM0L32AR[redacted]			**Build Date:**	04/24/2009
Odometer :	4,358 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04331 Brondes Ford Lincoln Mercury			**Phone#:**	(419) 887-1511
City:	Maumee	**State:**	Ohio	**Country :**	USA
Originator:	JIM HUGG				
Symptom:	2 09 1 99 ELECT.,NAVIGATION,FUNCTION,NOT LISTED				
Status:					
VFG:	V81 ENTERTAINMENT & COMMUNICATION				
Additional Symptom:	INT NAV GOES BLANK				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: MYOUN163	**Phone:** 313 317-7041	**Regn Cd:** G2 Detroit
Engineering:	**Phone:**	**TAR:**
Dlr Contact: JIM HUGG	**Phone:** 419 887-1511	**Title Cde:** T

DTCs:

KOEO:

KOEC:

KOER:

Comments:

REPAIR 10/02/2009 10:43AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CUSTOMER STATES THAT ADDRESS DONT COME UP ON
NAV SYSTEM AND SOMETIMES SCREEN GOES BLANK. DIAGNOSTICS:
NONE PARTS REPLACED:: NONE TECH QUESTION: SOME ONE AT HOTLINE
TOLD MY SERVICE MANAGER ABOUT A UPDATE FOR THE NAV SYSTEM BUT NOT SURE
WHAT IT IS OR WHERE I FIND IT. WERE YOU ABLE TO VERIFY THE
CONCERN? NO IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR
THIS CONCERN? NO WAS THE PINPOINT TEST FOLLOWED? NO

RECOMM 10/02/2009 10:43AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE
JIM, THERE ARE PRESENTLY NO UPDATES TO THE NAVIGATION SYSTEM ON THIS
VEHICLE. WHEN A NAVIGATION UPDATE IS AVAILABLE, IT WILL BE ON A DVD
AVAILABLE FROM NAVTEQ. FOR MORE INFORMATION, RECOMMEND YOU CONTACT
NAVTEQ AT 1-866-4NAVTEQ. NOTE THAT AN UPDATED NAVIGATION DVD WILL
NOT RESOLVE A NAVIGATION SCREEN THAT BLANKS OUT, AND DEPENDING ON THE
EXACT CONCERN, MAY NOT RESOLVE AN ADDRESS COMING UP. IT IS RECOMMENDED
TO OBTAIN MORE INFORMATION FROM THE CUSTOMER AND DUPLICATE THE CONCERN
PRIOR TO PERFORMING ANY REPAIRS.

REPAIR 10/02/2009 11:01AM MARK MCCLELLAND MSS - FCSD - TECH SVC HOTLINE
TECHNICIAN REPLY: THIS IS A HARD DRIVE NAV SYSTEM NOT DVD. WAS TOLD
THAT HOTLINE HAD THE UPDATE FROM NAVTEQ

RECOMM 10/02/2009 11:01AM MARK MCCLELLAND MSS - FCSD - TECH SVC HOTLINE
JIM, EVEN THOUGH THIS NAVIGATION SYSTEM IS HARD DRIVE BASED, ANY
UPDATES FOR THE SYSTEM WILL BE RELEASED ON A DVD WHICH WILL BE
INSERTED INTO THE UNIT AND COPIED OVER TO THE INTERNAL HARD
DRIVE. CURRENTLY, THERE ARE NO UPDATES AVAILABLE FOR THIS
NAVIGATION SYSTEM. I HAVE BEEN INFORMED THAT WHEN AN UPDATE IS
RELEASED, A MESSAGE WILL BE PUBLISHED ON OASIS. THAT SAID, A
NAVIGATION UPDATE IS NOT LIKELY TO RESOLVE THE CONCERN THAT YOU ARE
DESCRIBING. THE SCREEN GOING BLANK COULD BE DUE TO ONE OF THE MODULES

INVOLVED WITH THE NAVIGATION SYSTEM DROPPING OFF OF THE NETWORK. IF YOU ARE ABLE TO DUPLICATE THE CONCERN, CHECK TO SEE IF ANY MODULES ARE
DROPPING OFF OF THE NETWORK WHEN THIS OCCURS.

Attachments : 0

Report# :	9JBBQ002 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L35AR[redacted]			**Build Date:**	04/21/2009
Odometer :	6,888 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 02890 Russ Milne Ford, Inc.			**Phone#:**	(586) 948-7700
City:	Macomb	**State:**	Michigan	**Country :**	USA
Originator:	BRYAN PERLICK				
Symptom:	2 06 1 99 ELECT.,WARNING SYS.,INDICATORS,NOT LISTED				
Status:					
VFG:	V83 INSTRUMENTATION FUNCTION				
Additional Symptom:	B11D6 BLIS INOP				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: DPOULOS **Phone:** 313 317-9370 **Regn Cd:** G2 Detroit

Engineering: **Phone:** **TAR:**

Dlr Contact: BRYAN PERLICK **Phone:** 586 948-7700 **Title Cde:** T

DTCs:
KOEO:B11D6
KOEC:
KOER:

Comments :

REPAIR 10/02/2009 09:31AM DINO POULOS MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: BLIND SPOT/CROSS TRAFFIC INDICATES
FAULT DIAGNOSTICS: VEMS D1-D7 (B11D6-15) PARTS REPLACED::
NONE TECH QUESTION: I HAVE CHECKED ALL CONNECTIONS AND GROUND 300
ALL OK. IF I SELF TEST SOD-L EITHER BY ALL CMD DTC OR ON DEMAND SELF

TEST I GET (INTERMIITENTLY) CODE B11D6-15 I ALSO NOTICED AFTER RETRIEVING CODE IF I SELF TEST THE SOD-L AGAIN (WITHOUT CLEARING CODE PREVIOUSLY) THE CODE DOES NOT REAPEAR AS CONTINUOS MEMERY CODE. CODE HAS NEVER BEEN AN ON DEMAND CODE AT THIS TIME. WERE YOU ABLE TO VERIFY THE CONCERN? YES IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR THIS CONCERN? YES WAS THE PINPOINT TEST FOLLOWED? YES

RECOMM **10/02/2009 09:31AM DINO POULOS MSS - FCSD - TECH SVC HOTLINE**

BRYAN, COMMON REPORTS FOR THIS CONCERN LEAD TO A CONNECTION CONCERN WITH THE LEFT OUTSIDE MIRROR. PLEASE CHECK THE WHITE CONNECTOR ON THE BACK OF THE LED MIRROR GLASS FOR PIN FIT CONCERNS. THESE REPORTS HAVE REPAIRED THE PINS AND APPLIED DIELECTRIC GREASE TO PREVENT FUTURE CONCERNS. REPORT #: 9GBAQ054 OTHER TECH COMMENTS REPORT #: 9HLA2093 OTHER TECH COMMENTS

Attachments : 0

Report# :	9JBC4008 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L30AR[redacted]			**Build Date:**	05/18/2009
Odometer :	21,193 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 06081 San Francisco Ford Lincoln Mer			**Phone#:**	(415) 861-6000
City:	San Francisco	**State:**	California	**Country :**	USA
Originator:	JAMES QUAN				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	P0AFA				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: ABOUGHAN **Phone:** 000 317-6308 **Regn Cd:** W2 San Francisco

Engineering: **Phone:** **TAR:**

Dlr Contact: JAMES QUAN **Phone:** 415 553-4400 **Title Cde:** T

DTCs:

KOEO:

KOEC:P0AFA P1A10

KOER:

Comments:

REPAIR 10/02/2009 03:08PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: OWNER STATED VEHICLE STALLED OUT WITH RED TRIANGLE ON AND NO RESTART. VEHICLE WAS DRIVEN IN. DIAGNOSTICS: TEST DROVE BUT CAN NOT DUPLICATE. CHECK TCM, PCM, AND BCEM FOR CODES BUT ONLY PCM CODE P1A10 FOR HYBRID POWERTRAIN CONTROL MODULE BATTERY
DISABLED. DID HAS ANOTHER CODE IN ACCM----P0AFA:16-28------FOR HYBRID BATTERY SYSTEM VOLTAGE LOW. I PERFORMED PPT D FOR CODE P0AFA-- ACCM CHVS PID AND BATPACKVOLT PID ALMOST THE SAME ---AT 280 VOLTS. ----ACCM ON DEMAND TEST PASSED, FOUND NOTHING WRONG. PARTS REPLACED:: NONE TECH QUESTION: WHAT TO DO NEXT? ALSO COULD ACCM CODE P0AFA CAUSE VEHICLE TO STOP RUNNING WITH RED TRIANGLE ON AND NO OTHER CODES
IN ANY OTHER SYSTEM OTHER THAN SHUTDOWN CODE P1A10. PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE.

RECOMM 10/02/2009 03:08PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE
JAMES, RESEARCHING THE HOTLINE DATA BASE INDICATES THAT THERE ARE NO COMMON CONCERNS TO INFORM YOU OF. PLEASE OBTAIN HEV DATA, FROM THE IDS
> TOOL BOX > ELECTRONIC THROTTLE CONTROL. E-MAIL THE HEV DATA TO ABOUGHAN@FORD.COM AND MHINDERE@FORD.COM AND THEN CONTACT THE HOTLINE
BY PHONE TO DISCUSS THIS CONCERN IN FURTHER DETAIL. PLEASE ADVISE IF THERE IS ANY SIGNS OF DAMAGE OT THE VEHICLE. PLEASE ADVISE IF THERE ARE ANY AFTERMARKET COMPONENTS INSTALLED ON THE VEHICLE. REFER TO WSM
414-05 AND PERFORM THE PPT E FOR THE CODE P0AFA:16 IF THE CODE IS A HARD FAULT. THE DC TO DC CONVERTER CONTROL MODULE (DC/DC) MONITORS THE HIGH VOLTAGE AVAILABLE FROM THE HIGH VOLTAGE TRACTION BATTERY (HVTB). IF THE DC/DC SENSES HIGH VOLTAGE OF LESS THAN 150 VOLTS, IT WILL SET DTC P0AFA:16 AND REQUEST THE CHECK CHARGING SYSTEM MESSAGE BE
DISPLAYED IN THE MESSAGE CENTER. THE DC/DC WILL BE IN STANDBY MODE (DC/DC DISABLED) UNTIL THE LOW-VOLTAGE CONDITION CLEARS, RESULTING IN THE 12-VOLT BATTERY EVENTUALLY BECOMING DRAINED. REDUCED OR NO FUNCTIONALITY OF 12-VOLT SYSTEMS (HEADLAMPS, HVAC BLOWER MOTOR,

ETC.)
MAY ALSO BE NOTICED.

Attachments : 0

Report# :	9JBBI004 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L36AR[redacted]			**Build Date:**	08/28/2009
Odometer :	84 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 00084 Apple Ford Lincoln Mercury			**Phone#:**	(410) 290-1100
City:	Columbia	**State:**	Maryland	**Country :**	USA
Originator:	ANDREW CARR				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	P2135, P2111, U0161				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: NPETER25 **Phone:** 000 337-4487 **Regn Cd:** N4 Washington

Engineering: **Phone:** **TAR:**

Dlr Contact: ANDREW CARR **Phone:** 410 290-1100 **Title Cde:** T

DTCs:
KOEO:
KOEC:
KOER:

Comments :

REPAIR 10/02/2009 10:17AM NANCY PETERSEN MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CUSTOMER STATES WHILE DRIVING VEHICLE
STARTED BUCKING AND JERKING, ALSO HAD A LOSS OF POWER AND BARELY MADE
IT TO THE DEALERSHIP. DIAGNOSTICS: IDS TEST; CMDTC PARTS
REPLACED:: NONE TECH QUESTION: ANY KNOWN CONCERNS WITH THIS CONCERN

AT A VEHICLE WITH 358 MILES ON IT? ANY SUGGESTIONS OTHER THAN DOING THE PINPOINT TEST FOR THIS CONCERN? PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE

RECOMM 10/02/2009 10:17AM NANCY PETERSEN MSS - FCSD - TECH SVC HOTLINE

ANDREW, BASED ON THE THROTTLE BODY CODES, THE THROTTLE BODY WAS NOT

IN THE POSITION COMMANDED BY THE PCM. VERIFY THE CIRCUITS BETWEEN THE

PCM AND THE THROTTLE BODY ARE WITHIN SPECS OUTLINED BY PPT DV. IF CIRCUITS ARE GOOD REPLACE THE THROTTLE BODY, CLEAR KAM AND RETEST.

FOLLOW PPT FOR U0161. THERE ARE NO KNOWN CONCERNS FOR THIS MODEL YEAR.

From: Tedone, Damian (D.J.)
Sent: Tuesday, October 06, 2009 11:24 AM
To: Cardoso, Jesus (Chuy.)
Cc: Regan, Andrew (A.D.); Trizon Dyck, Javier (J.T.); Hayes, Dave (D.L.); Learman, Michael (M.S.); Langley, Scott (C.S.)
Subject: RE: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

Thanks Chuy,

Scott do you want the TB back when we get it? We will put it into a vehicle and verify before we give it to you.

Have a Blessed Day

Damian Tedone
HEV Controls Applications & Torque Monitor Supervisor
Integrated Six Sigma Master Black Belt
Sustain Mobility Tech Lab – II Cube 2AB04
15000 Commerce Drive North Dearborn, MI 48120
Ford Motor Company
dtedone@ford.com <mailto:dtedone@ford.com>
PHONE 313-594-7606

See Ford's HEV website: http://www.fordvehicles.com/escapehybrid

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From: Cardoso, Jesus (Chuy.)
Sent: Tuesday, October 06, 2009 11:22 AM
To: Tedone, Damian (D.J.)
Cc: Regan, Andrew (A.D.); Trizon Dyck, Javier (J.T.); Hayes, Dave (D.L.); Learman, Michael (M.S.); Langley, Scott (C.S.)
Subject: RE: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

Damian, we discussed TBs last week at my CTMT. I want to give Mike and Scott some time get the part back and evaluate it before we bring them back in to give status on the TB mentioned below. The vehicle below is on the borderline of the ICA which was implemented on 8/16 and the PCA which was implemented on 8/24. We will have to wait until Scott's team completes their analysis.

Regards,

Jesús Cardoso
CD3 HEV PVT Engineering Supervisor
Sustainable Mobility Technologies
Ford Motor Company, Hermosillo Stamping and Assembly Plant
Hermosillo, Sonora, Mexico
☎Mexico Cell: 011-521-662-142-0199 (Dialing from U.S.)
☎Landline: 9-1-456-8336 (FordNet), 011-52-662-259-8336
Fusion Website: http://www.fordvehicles.com/cars/fusion/

From: Tedone, Damian (D.J.)
Sent: Tuesday, October 06, 2009 8:11 AM
To: Learman, Michael (M.S.); Hayes, Dave (D.L.)
Cc: Regan, Andrew (A.D.); Cardoso, Jesus (Chuy.); Trizon Dyck, Javier (J.T.)
Subject: FW: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

Part request back through HOT process reference req # 4117.

Mike, TB with vehicle build date in August. Should this not have been contained? Chuy can you add to the CMT meeting inviting the TB team to discuss if you think that is appropriate? Thanks.

Have a Blessed Day

Damian Tedone
HEV Controls Applications & Torque Monitor Supervisor
Integrated Six Sigma Master Black Belt
Sustain Mobility Tech Lab – II Cube 2AB04
15000 Commerce Drive North Dearborn, MI 48120
Ford Motor Company
dtedone@ford.com <mailto:dtedone@ford.com>
PHONE 313-594-7606

See Ford's HEV website: http://www.fordvehicles.com/escapehybrid

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From: Gee, Tom (T.S.)
Sent: Monday, October 05, 2009 6:06 AM
To: Hayes, Dave (D.L.); Thompson, Wayne (W.M.)
Cc: Tedone, Damian (D.J.); Treharne, David (W.D.)
Subject: FW: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

9JBC4008 - HV battery low voltage DTC and shutdown. Wayne, you may want to follow-up on this one.
9JBBI004 - Potential bad T'body. Aug build date. If replaced, let's get this T'body back.

Thomas S. Gee
Manager, Controls and Strategy Implementation
SMT & Hybrid Technologies
Ford Motor Company
Phone: (313) 805-2978, Fax: (313) 317-4551
SMTLII, 2CA19

From: BBRADCOS [mailto:BBRADCOS]
Sent: Saturday, October 03, 2009 1:47 PM
To: TGEE
Subject: FUSION/MILAN HYBRID (QD) - Report Summary(s) from a GCQIS Query Disposition

This email contains 7 report summary(s).

Attachments : 3

Report# :	9JBEB874 NHLDIG--or-- HD 200900273784			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L39AR[redacted]			**Build Date:**	09/01/2009
Odometer :	166 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 02865 Ford of Ocala Inc			**Phone#:**	(352) 732-4800
City:	Ocala	**State:**	Florida	**Country :**	USA
Originator:	Tom Leonard				
Symptom:	4 99 1 00 ENGINE,GENERAL CONCER,APPEARANCE,OTHER-CODE NA				
Status:					
VFG:	V44 POWERTRAIN MALFUNCTION				
Additional Symptom:	Processed				
Fix:	**Causal Component :**		--		
Condition Code:					

Region Code: S3 **Region Name:** Orlando

DTCs:
KOEO:
KOEC:
KOER:

Comments :

CONCER	10/02/2009 01:15PM Cust. states the engine cover is cracked. advise. Intend to replace cover
RECOMM	**10/02/2009 01:15PM** Engine cover will not require DI approval. Thank you for taking the time to submit pictures and info an engineering report will be generated using the info you have provided. Thanks, Eric

Please click on the link below to view the attachments associated with this report
https://www.gcqis.dealerconnection.com/gcqis/asp/DIViewAttachment_Mainx.asp?ReportNumber=9JBEB874

Attachments : 0

Report# :	9JBAY011 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L31AR[redacted]			**Build Date:**	08/07/2009
Odometer :	5 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04962 World Ford-Pensacola			**Phone#:**	(850) 479-1311
City:	Pensacola	**State:**	Florida	**Country :**	USA

Originator: MICHAEL MATKOWSKI

Symptom: 2 03 3 00 ELECT.,START/CHARGE,STARTING SYSTEM,OTHER-CODE NA

Status:

VFG: V19 ELECTRICAL POWER

Additional Symptom: REMOTE START QUESTION

Fix: **Causal Component :** --

Condition Code:

Hotliner: JJASKULA **Phone:** 000 248-8201 **Regn Cd:** S3 Orlando

Engineering: **Phone:** **TAR:**

Dlr Contact: MICHAEL MATKOWSKI **Phone:** 850 476-9050 **Title Cde:** T

DTCs:

KOEO:

KOEC:

KOER:

Comments :

REPAIR 10/02/2009 10:52AM JAMES JASKULA MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: INSTALL REMOTE START
SYSTEM DIAGNOSTICS: NONE PARTS REPLACED:: NONE TECH
QUESTION: IS REMOTE START AVAILABLE AND COMPATIBLE ON HYBRID VEHICLE. WERE YOU ABLE TO VERIFY THE CONCERN? NO IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR THIS CONCERN? NO WAS THE PINPOINT TEST FOLLOWED? NO

RECOMM **10/02/2009 10:52AM JAMES JASKULA MSS - FCSD - TECH SVC HOTLINE**
MIKE, THE DEALER INSTALLED ACCESSORIES SHOWS THERE ARE 2 UNITS AVAILABLE. SERIES 100, ONE-BUTTON REMOTE START SYSTEM REMOTE START BI-DIRECTIONAL 100 SERIES HAVE A GREAT DAY,JAMIE.

Attachments : 0

Report# :	9JBBM002 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L33AR[redacted]			**Build Date:**	03/11/2009
Odometer :	6,706 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04227 Germain Ford			**Phone#:**	(614) 889-7777
City:	Columbus	**State:**	Ohio	**Country :**	USA

Originator: JIM SCOTT

Symptom: 2 07 3 37 ELECT.,ENTERTAINMENT ,FUNCTION,RADIO

Status:

VFG: V81 ENTERTAINMENT & COMMUNICATION

Additional Symptom: U0238 NO SOUND

Fix: **Causal Component :** --

Condition Code:

Hotliner: IPUSTA **Phone:** 313 317-9298 **Regn Cd:** G3 Cincinnati

Engineering: **Phone:** **TAR:**

Dlr Contact: JIM SCOTT **Phone:** 614 889-7777 **Title Cde:** T

DTCs:

KOEO:U0238

KOEC:

KOER:

Comments :

REPAIR 10/02/2009 09:31AM IONET PUSTA MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CAME IN, NO CRANK,NO START, AUX BATTERY RAN
DOWN COMPLETELY. NUMEROUS FAULT CODES, REPAIRS MADE PER TSB 09-14-3, STILL HAS FAULT U0238, RADIO NO SOUND DIAGNOSTICS: EEC/BCM TESTS, TSB 09 14 3 PARTS REPLACED:: NONE TECH QUESTION: SUSPECT DEFECTIVE AUDIO CONTROL MODULE CONCERN. ANY RELATED CONCERNS? WERE YOU ABLE TO VERIFY THE CONCERN? YES IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR THIS CONCERN? YES WAS THE PINPOINT TEST FOLLOWED? YES

RECOMM **10/02/2009 09:31AM IONET PUSTA MSS - FCSD - TECH SVC HOTLINE**
HELLO JAMES, THERE ARE NO HOTLINE REPORTS FOR THIS CONCERN. I RECOMMEND TO PERFORM PINPOINT TEST AL IN THE ONLINE WSM SECTION 415-00

FOR THIS CONCERN.

REPAIR **10/02/2009 10:12AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE**

TECHNICIAN REPLY: PERFORMED PP TEST AL, PASSES NETWORK TEST, FOR ACM, SELF TEST ACM ON DEMAND PASS, CONTINOUS STILL HAS FAULT U0238-00-0A. WORKSHOP MANUAL ALSO SAYS TO TO PERFORM DSP MODULE TESTS, HAS NO COMMUNICATION WITH DSP MODULE, SUSPECT NOT EQUIPPED WITH DSP MODULE???? ANY IDEA, HAS NAV SYSTEM. ANYWAYS, SELP TESTING, LEADS TO REPLACMENT OF ACM MODULE, INCONCLUSIVE IF I HAVE DSP MODULE AND IF IT
SHOULD REPLACED PER PP TEST AL. TAKE A LOOK AT THE TEST AND TELL ME?

RECOMM **10/02/2009 10:12AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE**

JAMES, BECAUSE THIS VEHICLE IS EQUIPPED WITH THE SONY SOUND SYSTEM, IT HAS A DSP MODULE. THE SCHEMATIC FOR THIS SYSTEM IS LOCATED IN ONLINE WIRING DIAGRAM CELL 130-11. AT THIS TIME, RECOMMEND YOU CARRY OUT PINPOINT TEST W FROM ONLINE WORKSHOP MANUAL SECTION 418-00 FOR NO
COMMUNICATION WITH THE DSP MODULE. ENSURE YOU FOLLOW THE STEPS FOR THE
SONY MODULE, AS THE THX SYSTEM DOES NOT FUNCTION THE SAME AND USES DIFFERENT CONNECTOR AND PIN NUMBERS. IF NECESSARY, A DSP MODULE FROM
ANOTHER SONY SOUND EQUIPPED 2010 FUSION CAN BE SWAPPED INTO THIS VEHICLE FOR TESTING PURPOSES.

REPAIR **10/02/2009 01:47PM ALEXANDER ROGERS MSS - FCSD - TECH SVC HOTLINE**

-VEHICLE EXHIBITS INTERMITTENT MUTING OF AUDIO IN ALL MODES. TECH NOTES WHEN THE CONCERN OCCURS, THE DSP MODULE DOES NOT COMMUNICATE.
-VEHICLE ALSO EXHIBITS AN INTERMITTENT BATTERY DRAW.

RECOMM **10/02/2009 01:47PM ALEXANDER ROGERS MSS - FCSD - TECH SVC HOTLINE**

-WHEN THE CONCERN IS PRESENT, REFER TO PAGE 130-1 OF THE EVTM AND MONITOR VOLTAGE ON PIN 15 OF C240A WHEN THE CONCERN IS PRESENT. IF VOLTAGE EXCEEDS .1 VOLTS, REMOVE THE CIRCUIT FROM THE CONNECTOR AND RE
EVALUATE THE CONCERN. IF THE CONCERN IS CORRECTED, ISOLATE THE SOURCE
OF THE UNWANTED VOLTAGE. -IF NO VOLTAGE CONCERNS ARE PRESENT AT PIN 15 OF C240A, RE CHECK FOR DSP COMMUNICATION, IF THE DSP MODULE DOES NOT COMMUNICATE, REFER BACK TO PINPOINT TEST W IN SECTION 418-00.

Attachments : 0

Report# :	9JBBL007 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,MILAN,HYBRID ,SEDAN ,3MEDM0L32AR[redacted]			**Build Date:**	04/24/2009
Odometer :	4,358 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 04331 Brondes Ford Lincoln Mercury			**Phone#:**	(419) 887-1511
City:	Maumee	**State:**	Ohio	**Country :**	USA

Originator: JIM HUGG

Symptom: 2 09 1 99 ELECT.,NAVIGATION,FUNCTION,NOT LISTED

Status:

VFG: V81 ENTERTAINMENT & COMMUNICATION

Additional Symptom: INT NAV GOES BLANK

Fix: **Causal Component :** --

Condition Code:

Hotliner: MYOUN163 **Phone:** 313 317-7041 **Regn Cd:** G2 Detroit

Engineering: **Phone:** **TAR:**

Dlr Contact: JIM HUGG **Phone:** 419 887-1511 **Title Cde:** T

DTCs:

KOEO:

KOEC:

KOER:

Comments :

REPAIR 10/02/2009 10:43AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CUSTOMER STATES THAT ADDRESS DONT COME UP ON
NAV SYSTEM AND SOMETIMES SCREEN GOES BLANK. DIAGNOSTICS:
NONE PARTS REPLACED:: NONE TECH QUESTION: SOME ONE AT HOTLINE
TOLD MY SERVICE MANAGER ABOUT A UPDATE FOR THE NAV SYSTEM BUT NOT SURE
WHAT IT IS OR WHERE I FIND IT. WERE YOU ABLE TO VERIFY THE
CONCERN? NO IS THERE AN APPROPRIATE PINPOINT TEST IN THE WSM FOR
THIS CONCERN? NO WAS THE PINPOINT TEST FOLLOWED? NO

RECOMM **10/02/2009 10:43AM MICHAEL YOUNG MSS - FCSD - TECH SVC HOTLINE**
JIM, THERE ARE PRESENTLY NO UPDATES TO THE NAVIGATION SYSTEM ON THIS VEHICLE. WHEN A NAVIGATION UPDATE IS AVAILABLE, IT WILL BE ON A DVD AVAILABLE FROM NAVTEQ. FOR MORE INFORMATION, RECOMMEND YOU

CONTACT
NAVTEQ AT 1-866-4NAVTEQ. NOTE THAT AN UPDATED NAVIGATION DVD WILL NOT RESOLVE A NAVIGATION SCREEN THAT BLANKS OUT, AND DEPENDING ON THE EXACT CONCERN, MAY NOT RESOLVE AN ADDRESS COMING UP. IT IS RECOMMENDED TO OBTAIN MORE INFORMATION FROM THE CUSTOMER AND DUPLICATE THE CONCERN PRIOR TO PERFORMING ANY REPAIRS.

REPAIR **10/02/2009 11:01AM MARK MCCLELLAND MSS - FCSD - TECH SVC HOTLINE**
TECHNICIAN REPLY: THIS IS A HARD DRIVE NAV SYSTEM NOT DVD. WAS TOLD THAT HOTLINE HAD THE UPDATE FROM NAVTEQ

RECOMM **10/02/2009 11:01AM MARK MCCLELLAND MSS - FCSD - TECH SVC HOTLINE**
JIM, EVEN THOUGH THIS NAVIGATION SYSTEM IS HARD DRIVE BASED, ANY UPDATES FOR THE SYSTEM WILL BE RELEASED ON A DVD WHICH WILL BE INSERTED INTO THE UNIT AND COPIED OVER TO THE INTERNAL HARD DRIVE. CURRENTLY, THERE ARE NO UPDATES AVAILABLE FOR THIS NAVIGATION SYSTEM. I HAVE BEEN INFORMED THAT WHEN AN UPDATE IS RELEASED, A MESSAGE WILL BE PUBLISHED ON OASIS. THAT SAID, A NAVIGATION UPDATE IS NOT LIKELY TO RESOLVE THE CONCERN THAT YOU ARE DESCRIBING. THE SCREEN GOING BLANK COULD BE DUE TO ONE OF THE MODULES INVOLVED WITH THE NAVIGATION SYSTEM DROPPING OFF OF THE NETWORK. IF YOU ARE ABLE TO DUPLICATE THE CONCERN, CHECK TO SEE IF ANY MODULES ARE DROPPING OFF OF THE NETWORK WHEN THIS OCCURS.

Attachments : 0

Report# :	9JBBQ002 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L35AR[redacted]			**Build Date:**	04/21/2009
Odometer :	6,888 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 02890 Russ Milne Ford, Inc.			**Phone#:**	(586) 948-7700
City:	Macomb	**State:**	Michigan	**Country :**	USA
Originator:	BRYAN PERLICK				
Symptom:	2 06 1 99 ELECT.,WARNING SYS.,INDICATORS,NOT LISTED				
Status:					

VFG: V83 INSTRUMENTATION FUNCTION

Additional Symptom: B11D6 BLIS INOP

Fix: **Causal Component :** --

Condition Code:

Hotliner: DPOULOS **Phone:** 313 317-9370 **Regn Cd:** G2 Detroit

Engineering: **Phone:** **TAR:**

Dlr Contact: BRYAN PERLICK **Phone:** 586 948-7700 **Title Cde:** T

DTCs:

KOEO:B11D6

KOEC:

KOER:

Comments :

REPAIR 10/02/2009 09:31AM DINO POULOS MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: BLIND SPOT/CROSS TRAFFIC INDICATES
FAULT DIAGNOSTICS: VEMS D1-D7 (B11D6-15) PARTS REPLACED::
NONE TECH QUESTION: I HAVE CHECKED ALL CONNECTIONS AND GROUND 300
ALL OK. IF I SELF TEST SOD-L EITHER BY ALL CMD DTC OR ON DEMAND SELF
TEST I GET (INTERMIITENTLY) CODE B11D6-15 I ALSO NOTICED AFTER
RETRIEVING CODE IF I SELF TEST THE SOD-L AGAIN (WITHOUT CLEARING CODE
PREVIOUSLY) THE CODE DOES NOT REAPEAR AS CONTINUOS MEMERY CODE.
CODE
HAS NEVER BEEN AN ON DEMAND CODE AT THIS TIME. WERE YOU ABLE TO
VERIFY THE CONCERN? YES IS THERE AN APPROPRIATE PINPOINT TEST IN
THE WSM FOR THIS CONCERN? YES WAS THE PINPOINT TEST FOLLOWED? YES

RECOMM **10/02/2009 09:31AM DINO POULOS MSS - FCSD - TECH SVC HOTLINE**
BRYAN, COMMON REPORTS FOR THIS CONCERN LEAD TO A CONNECTION
CONCERN
WITH THE LEFT OUTSIDE MIRROR. PLEASE CHECK THE WHITE CONNECTOR ON
THE
BACK OF THE LED MIRROR GLASS FOR PIN FIT CONCERNS. THESE REPORTS HAVE
REPAIRED THE PINS AND APPLIED DIELECTRIC GREASE TO PREVENT FUTURE
CONCERNS. REPORT #: 9GBAQ054 OTHER TECH COMMENTS REPORT #: 9HLA2093
OTHER TECH COMMENTS

Attachments : 0

Report# :	9JBC4008 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L30AR[redacted]			**Build Date:**	05/18/2009
Odometer :	21,193 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 06081 San Francisco Ford Lincoln Mer			**Phone#:**	(415) 861-6000
City:	San Francisco	**State:**	California	**Country :**	USA
Originator:	JAMES QUAN				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				
Additional Symptom:	P0AFA				
Fix:	**Causal Component :**		--		
Condition Code:					

Hotliner: ABOUGHAN **Phone:** 000 317-6308 **Regn Cd:** W2 San Francisco

Engineering: **Phone:** **TAR:**

Dlr Contact: JAMES QUAN **Phone:** 415 553-4400 **Title Cde:** T

DTCs:

KOEO:

KOEC:P0AFA P1A10

KOER:

Comments :

REPAIR 10/02/2009 03:08PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: OWNER STATED VEHICLE STALLED OUT WITH RED TRIANGLE ON AND NO RESTART. VEHICLE WAS DRIVEN IN. DIAGNOSTICS: TEST DROVE BUT CAN NOT DUPLICATE. CHECK TCM, PCM, AND BCEM FOR CODES BUT ONLY PCM CODE P1A10 FOR HYBRID POWERTRAIN CONTROL MODULE BATTERY
DISABLED. DID HAS ANOTHER CODE IN ACCM----P0AFA:16-28------FOR HYBRID BATTERY SYSTEM VOLTAGE LOW. I PERFORMED PPT D FOR CODE P0AFA-- ACCM CHVS PID AND BATPACKVOLT PID ALMOST THE SAME ---AT 280 VOLTS. ----ACCM ON DEMAND TEST PASSED, FOUND NOTHING WRONG. PARTS REPLACED:: NONE TECH QUESTION: WHAT TO DO NEXT? ALSO COULD ACCM CODE P0AFA CAUSE VEHICLE TO STOP RUNNING WITH RED TRIANGLE ON AND NO OTHER CODES
IN ANY OTHER SYSTEM OTHER THAN SHUTDOWN CODE P1A10. PLEASE LIST

ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE.

RECOMM **10/02/2009 03:08PM ALEX BOUGHAN MSS - FCSD - TECH SVC HOTLINE**

JAMES, RESEARCHING THE HOTLINE DATA BASE INDICATES THAT THERE ARE NO COMMON CONCERNS TO INFORM YOU OF. PLEASE OBTAIN HEV DATA, FROM THE IDS

> TOOL BOX > ELECTRONIC THROTTLE CONTROL. E-MAIL THE HEV DATA TO ABOUGHAN@FORD.COM AND MHINDERE@FORD.COM AND THEN CONTACT THE HOTLINE

BY PHONE TO DISCUSS THIS CONCERN IN FURTHER DETAIL. PLEASE ADVISE IF THERE IS ANY SIGNS OF DAMAGE OT THE VEHICLE. PLEASE ADVISE IF THERE ARE ANY AFTERMARKET COMPONENTS INSTALLED ON THE VEHICLE. REFER TO WSM

414-05 AND PERFORM THE PPT E FOR THE CODE P0AFA:16 IF THE CODE IS A HARD FAULT. THE DC TO DC CONVERTER CONTROL MODULE (DC/DC) MONITORS THE HIGH VOLTAGE AVAILABLE FROM THE HIGH VOLTAGE TRACTION BATTERY (HVTB). IF THE DC/DC SENSES HIGH VOLTAGE OF LESS THAN 150 VOLTS, IT WILL SET DTC P0AFA:16 AND REQUEST THE CHECK CHARGING SYSTEM MESSAGE BE

DISPLAYED IN THE MESSAGE CENTER. THE DC/DC WILL BE IN STANDBY MODE (DC/DC DISABLED) UNTIL THE LOW-VOLTAGE CONDITION CLEARS, RESULTING IN THE 12-VOLT BATTERY EVENTUALLY BECOMING DRAINED. REDUCED OR NO FUNCTIONALITY OF 12-VOLT SYSTEMS (HEADLAMPS, HVAC BLOWER MOTOR, ETC.)

MAY ALSO BE NOTICED.

Attachments : 0

Report# :	9JBBI004 NHL			**Received:**	10/02/2009
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2010,FUSION,HYBRID ,SEDAN ,3FADP0L36AR[redacted]			**Build Date:**	08/28/2009
Odometer :	84 M	**Engine:**	2.5 ATKINS	**Calibration:**	ADE1HV0A
Transmission:	CVT AUTO	**Axle:**		**A/C:**	YES
Dealer:	USA 00084 Apple Ford Lincoln Mercury			**Phone#:**	(410) 290-1100
City:	Columbia	**State:**	Maryland	**Country :**	USA
Originator:	ANDREW CARR				
Symptom:	6 98 2 98 DRVABL,INDICATOR,CHECK ENGINE,MIL ONLY				
Status:					
VFG:	V29 CHECK ENGINE LIGHT				

Additional Symptom: P2135, P2111, U0161

Fix: **Causal Component :** --

Condition Code:

Hotliner: NPETER25 **Phone:** 000 337-4487 **Regn Cd:** N4 Washington

Engineering: **Phone:** **TAR:**

Dlr Contact: ANDREW CARR **Phone:** 410 290-1100 **Title Cde:** T

DTCs:

KOEO:

KOEC:

KOER:

Comments :

REPAIR 10/02/2009 10:17AM NANCY PETERSEN MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN: CUSTOMER STATES WHILE DRIVING VEHICLE STARTED BUCKING AND JERKING, ALSO HAD A LOSS OF POWER AND BARELY MADE
IT TO THE DEALERSHIP. DIAGNOSTICS: IDS TEST; CMDTC PARTS REPLACED:: NONE TECH QUESTION: ANY KNOWN CONCERNS WITH THIS CONCERN
AT A VEHICLE WITH 358 MILES ON IT? ANY SUGGESTIONS OTHER THAN DOING THE PINPOINT TEST FOR THIS CONCERN? PLEASE LIST ANY PERTINENT FREEZE FRAME DATA PLEASE LIST ANY VEHICLE MODIFICATIONS, OR TYPE NONE. NONE

RECOMM **10/02/2009 10:17AM NANCY PETERSEN MSS - FCSD - TECH SVC HOTLINE**
ANDREW, BASED ON THE THROTTLE BODY CODES, THE THROTTLE BODY WAS NOT IN THE POSITION COMMANDED BY THE PCM. VERIFY THE CIRCUITS BETWEEN THE PCM AND THE THROTTLE BODY ARE WITHIN SPECS OUTLINED BY PPT DV. IF CIRCUITS ARE GOOD REPLACE THE THROTTLE BODY, CLEAR KAM AND RETEST. FOLLOW PPT FOR U0161. THERE ARE NO KNOWN CONCERNS FOR THIS MODEL YEAR.

From: Scott.Salyer@continental-corporation.com
Sent: Friday, April 29, 2011 3:17 PM
To: Langley, Scott (C.S.)
Cc: Abelardo.Villasana@continental-corporation.com; Davis, Andrae (A.L.); Alfredo.Ponce@continental-corporation.com; Carlos.2.Barrios@continental-corporation.com; Bos, Ed (E.A.); Ever.Chavez@continental-corporation.com; Boerger, Jim (J.G.); Juan.Vallejo-EXT@continental-corporation.com; Juan.Vazquez@continental-corporation.com; Lorena.Campoya@continental-corporation.com; Chabon, Michael (W.); Michael.Hillyer@continental-corporation.com; Shapardanis, Michael (M.S.); Omar.2.Aguirre@continental-corporation.com; Rosalba.Medinilla@continental-corporation.com; Parkinson, Tim (T.M.)
Subject: RE: FW: IG Motor Related Warranty Concerns

Scott, here is the feedback from Igarashi. I'll follow this up with a call to you, Scott

----- Forwarded by Juan Vallejo-EXT/usr/cag on 04/29/2011 10:42 AM -----

From: "Dale Howard" <DHoward@igusa.com>
To: <Juan.Vallejo-EXT@continental-corporation.com>, "Lisa Ehlen" <lehlen@igusa.com>, "Chris Stachowicz" <Cstachowicz@igusa.com>
Cc: <Tmckeough@igusa.com>, <rklujewski@igusa.com>
Date: 04/29/2011 10:33 AM
Subject: RE: URGENT: IG Motor Related Warranty Concerns

Juan,

All containment and permanent corrective actions implemented for warranty problems found with Delphi motors are implemented for all SQ3655 motors. That includes for production of 440-510327 motor which is delivered to you. IG-India implemented 100% 0.7V inspection of all Ford SQ3655 motors after production line and before shipping motors on 1-Sept-2010. Also this test is performed before motor case crimping and at the end of line performance check. Therefore it is currently checked 300% totally at IG-India.

As for current 0.7V testing of some Delphi motor stock it is different p/n than the motor which we sell to Conti. i.e. For Delphi we are doing 0.7V inspection of Gen2.5A motor. Currently Conti is only purchasing the Gen2A motor. The reason for 0.7V testing at Delphi location is not related to the warranty issues. It is due to some fallout on the Delphi line with claim of "high friction." Quite frankly when we measure the parts at IG-USA the friction is within specification. Anyway, we approved the inspection as a precautionary measure. If we should find some real issue with the motor and we confirm it also applies to the p/n shipped to Conti, we will notify you accordingly.

Best regards,
Dale Howard
Engineering Manager
Igarashi Motor Sales USA, LLC.

Best Regards,

Scott Salyer
CQE A SQM Plant MGR CJS

2700 Airport Road, Suite 200
Santa Teresa, NM 88008 USA

Continental Corporation
Luis Bleriot 6720
Parque Ind. Panamericano
Cd. Juarez, Chih. Mexico 32695
Tel.: 011-52-656-629-8258
575-874-7358
Cell: 575-405-9141
E-mail: scott.salyer@continental-corporation.com

{In Archive} RE: FW: IG Motor Related Warranty Concerns

Langley, Scott (C.S.) to: Scott.Salyer 04/28/2011 08:10 PM

Cc: Abelardo.Villasana, "Davis, Andrae (A.L.)", Alfredo.Ponce, Carlos.2.Barrios, "Bos, Ed (E.A.)", Ever.Chavez, "Boerger, Jim (J.G.)", Juan.Vallejo-EXT, Lorena.Campoya, "Chabon, Michael (W.)", Michael.Hillyer, "Shapardanis, Michael (M.S.)", Omar.2.Aguirre, Rosalba.Medinilla, "Parkinson, Tim (T.M.)", Juan.Vazquez

Archive: This message is being viewed in an archive.

Great.
Thank you, Scott.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Scott.Salyer@continental-corporation.com [mailto:Scott.Salyer@continental-corporation.com]
Sent: Thursday, April 28, 2011 10:07 PM
To: Langley, Scott (C.S.)
Cc: Abelardo.Villasana@continental-corporation.com; Davis, Andrae (A.L.); Alfredo.Ponce@continental-corporation.com; Carlos.2.Barrios@continental-corporation.com; Bos, Ed (E.A.); Ever.Chavez@continental-corporation.com; Boerger, Jim (J.G.); Juan.Vallejo-EXT@continental-corporation.com; Lorena.Campoya@continental-corporation.com; Chabon, Michael (W.); Michael.Hillyer@continental-corporation.com; Shapardanis, Michael (M.S.); Omar.2.Aguirre@continental-corporation.com; Rosalba.Medinilla@continental-corporation.com; Parkinson, Tim (T.M.); Juan.Vazquez@continental-

corporation.com
Subject: Re: FW: IG Motor Related Warranty Concerns

Scott, thanks for the heads-up on the Igarashi warranty concerns noted below. I'll dig into the status of these issues with Igarashi and get back to you as soon as I receive some feedback on the questions on interim containment and permanent corrective action assurance. I'll also ask our team to be sure that every IG motor from 7T4E warranty returns is sent to IG for performance testing and teardown analysis-if appropriate, per your comments below.

Best Regards,

Scott Salyer
CQE A SQM Plant MGR CJS

2700 Airport Road, Suite 200
Santa Teresa, NM 88008 USA

Continental Corporation
Luis Bleriot 6720
Parque Ind. Panamericano
Cd. Juarez, Chih. Mexico 32695
Tel.: 011-52-656-629-8258
575-874-7358
Cell: 575-405-9141
E-mail: scott.salyer@continental-corporation.com

From: "Langley, Scott (C.S.)" <slangle1@ford.com>
To: <Scott.Salyer@continental-corporation.com>, <Michael.Hillyer@continental-corporation.com>, <Ever.Chavez@continental-corporation.com>, <Abelardo.Villasana@continental-corporation.com>
Cc: "Parkinson, Tim (T.M.)" <tparkin1@ford.com>, "Davis, Andrae (A.L.)" <adavis2@ford.com>, "Shapardanis, Michael (M.S.)" <mshapard@ford.com>, "Bos, Ed (E.A.)" <ebos@ford.com>, "Chabon, Michael (W.)" <mchabon@ford.com>, "Boerger, Jim (J.G.)" <jboerger@ford.com>, <Rosalba.Medinilla@continental-corporation.com>, <Alfredo.Ponce@continental-corporation.com>, <Juan.Reyes-EXT@continental-corporation.com>, "Carlos Barrios" <Carlos.2.Barrios@continental-corporation.com>, <Omar.2.Aguirre@continental-corporation.com>, <Lorena.Campoya@continental-corporation.com>, <Juan.Vallejo-EXT@continental-corporation.com>
Date: 04/28/2011 06:01 PM
Subject: FW: IG Motor Related Warranty Concerns

Scott,
See below as a summary of Igarashi issues experienced on the Delphi product line.
We feel you have a need to know based on the fact that you use the same motor for your parallel 7T4E model.
I would expect that you have already been informed by Igarashi of these issues and are receiving the same containment actions.

Note, Igarashi is performing a 0.7V motor test across all motors. IG began doing the 0.7V test in El Paso/Mexico before the motors are shipped to Delphi. This is additional containment for parts that were shipped from India before the 0.7V test was implemented there. This started a few weeks ago - we'll get the exact date.

IG began doing a motor current waveform inspection test 100% in India. Operators judge the waveform good or bad. It's not automated. They do this in the inspection area, along with the 0.7V test. We're getting the date this started.

There are two additional items not mentioned by Andrae below…

1) Bonus wire inside of motor
2) Bonus brush material inside of motor.

And, a little clarification to what is stated below… many of the associated warranty claims have been for P2111/2 DTCs.

Please confirm for us that you are in contact with Igarashi and have the same interim containment and permanent corrective actions in place.

Additionally, every motor from a 7T4E warranty return should proceed to Igarashi for performance testing and teardown analysis unless there is a specific issue or parameter that points away from the motor.

Thanks.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Davis, Andrae (A.L.)
Sent: Thursday, April 28, 2011 2:16 PM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.)
Subject: IG Motor Related Warranty Concerns

Scott -

Below is a quick summary of concerns related to the Igarashi motor that have been discovered during Delphi's warranty returns analysis. Since this ETB motor is common between Delphi & Continental, Continental should find this information helpful during the warranty analysis of their ETB returns. All of these warranty returns exhibited motor circuit DT codes that were highlighted on the vehicle 700 tags. Please review and forward this info to any relevant Continental party.

Note: All implementation dates are @ Igarashi.

Failure Mode Description (w/ confirmed Root Cause identified)

1) Broken Motor Brush (Spring Side)
Root Cause: Metal probe in the spring testing error proof station hits behind the brush, due to the wrong seating position of the endcap.

ICA: 100% Visual inspection after the spring assy station. Implementation date: 3-16-11.
PCA: Clamping of the endcap assembly to prevent incorrect seating position. Target Implementation date 4/20/11

2) Broken Motor Brush (Commutator Side)
Root Cause: Armature hits the brush during the assembly of Armature into the Endcap assy.
PCA: Assembly fixture modification, to prevent improper seating of end-cap. Implementation date: 3-23-11

3) Brush Carrier Damage
Root Cause: Improper seating of the end cap during assy process
PCA: Modify alignment during assy process for proper seating . Implementation date 2-23-2011

4) Motor Commutator Damage
Root Cause: Damaged due to the bins used to storage the parts
PCA: Use of trays w/ partitions after the commutator turning process. Implementation date: 01-29-11

Andrae Davis
Powertrain Engineering
Ford Motor Company
Email: adavis2@ford.com
Phone: (313) 805-8786

From: Langley, Scott (C.S.)
Sent: Monday, March 28, 2011 10:31 AM
To: 'Rose, John A'; Davis, Andrae (A.L.); Parkinson, Tim (T.M.)
Subject: RE: Igarashi 8D's- GEN 6

Thanks much, John.

Tim, Andrae,
See two notes down.
Do these dates make sense to you and triangulate with the dates that you previously recognized?

- Scott

From: Rose, John A [mailto:john.a.rose@delphi.com]
Sent: Monday, March 28, 2011 10:28 AM
To: Langley, Scott (C.S.)
Subject: FW: Igarashi 8D's- GEN 6

Scott,

Per your request, is the following information provided by Dave. Hopefully, this answers your questions.

Please let us know, if we can provide anything further.

Thanks,
John

John Rose
Customer Resident Applications Engineer - ETB
Delphi - Customer Technology Center Michigan (CTCM)
3000 University Drive
Auburn Hills, MI 48326
Office Phone: 248-836-0585
Cell: 810-623-6785

From: Sant, David W
Sent: Monday, March 28, 2011 10:18 AM
To: Rose, John A
Subject: RE: Igarashi 8D's- GEN 6

Hi John,

Here are two of the three clean Delphi break dates. I don't know the typical lead time between ETB production and assembly into the vehicle; therefore, I cannot provide a clean vehicle break date:

IG Broken Brush Holder: IG implementation date 2/23/2011; Delphi clean date: 4/24/2011.

KSR No Solder: KSR Implementation: 7/11/2010; Delphi clean date: 10/1/2010

ASIC wafer Contamination: MLX implementation date: 1/16/2011. Need to obtain a clean break date at KSR in order to determine the clean Delphi break date. This information has been requested. Diana and Jesus Porras will follow up with KSR to try to obtain the KSR break date.

Hope this helps!

Dave Sant
Sr. Warranty Engineer
Engine Air Control Valves;
MPFI And GDi Fuel Systems

Address/Contact Info:
Delphi Powertrain Systems
5500 W. Henrietta Road
W. Henrietta, NY 14586
Mail Code: 515
Phone: 585-359-6925

From: Rose, John A
Sent: Monday, March 28, 2011 8:37 AM
To: Sant, David W
Subject: Igarashi 8D's- GEN 6

Dave,

Scott had mentioned to me late on Friday that he wanted to know the effective VO dates for the following issues;

2) IG Broken Brush Holder

1) Melexis - Wafer Contamination

1) KSR - No Solder

Essentially, he wants to know when we (Delphi) were clean. I think he said; that he needs the "better Delphi dates" for a meeting today.

Thanks,
John

John Rose
Customer Resident Applications Engineer - ETB
Delphi - Customer Technology Center Michigan (CTCM)
3000 University Drive
Auburn Hills, MI 48326
Office Phone: 248-836-0585
Cell: 810-623-6785

From: Aranda, Alberto <alberto.aranda@delphi.com>
Sent: Tuesday, January 19, 2010 4:55 PM
To: Langley, Scott (C.S.); Chabon, Michael (W.); Davis, Andrae (A.L.); Banna, Jim ; O'Neill, Daniel P; Rosales, Martin; Rademacher, Eric (E.M.); Porras, Jesus ; Rose, John A; Miramontes, Claudia ; Carbajal, Emma ; Corral, Abelardo ; Porras, Jesus
Cc: Shapardanis, Michael (M.S.); Boerger, Jim (J.G.)
Subject: RE: Latest Via Hole Follow-up
Attachments: INVENTARIO 28110494 TPS - 2010-01-15.xls

Complemented the Thermal cycle results in the attach file (column K)

<<INVENTARIO 28110494 TPS - 2010-01-15.xls>>

Alberto Aranda

Supplier Quality Coordinator

Delphi Powertrain

SEC Plant 35

US Ph. (915) 612-2979

MX Ph. (656) 649-2979

MX Cell (656) 638-1280

[dialing from the US: 011 52 (1656) 638-1280]

-----Original Appointment-----
From: Langley, Scott (C.S.)
Sent: Tuesday, January 19, 2010 1:52 PM
To: Langley, Scott (C.S.); Chabon, Michael (W.); Davis, Andrae (A.L.); Banna, Jim ; O'Neill, Daniel P; Rosales, Martin; Rademacher, Eric (E.M.); Porras, Jesus ; Rose, John A; Aranda, Alberto ; Miramontes, Claudia ; Carbajal, Emma
Cc: Shapardanis, Michael (M.S.); Boerger, Jim (J.G.)
Subject: Latest Via Hole Follow-up
When: Tuesday, January 19, 2010 2:30 PM-3:30 PM (GMT-07:00) Chihuahua, La Paz, Mazatlan - New.
Where: Conference Call

Agenda Items:

Approximately How many of the ~5,000 pcs in transit to CEP contain the 345/09 TPS date code?

We are asking VO to check vehicles for TPS date code of 345/09 and hold those parts (for eventual replacement).
- Need replacement ETBs available at VO plants… KCAP & Hermosillo

We are investigating the failure on ChEP Cold test for the possibility of implementing tighter parameters.

We should not frame the Thermal Cycling as a containment, but more an engineering risk-assessment and quantification of occurrence.

We request Delphi to hold TPS date codes of 344/09, 345/09, 346/09. (Delphi Only)

Documentation of Content in 9,000 pc Thermal Cycle?

Cross-section Data
- Need explanation of filename: INVENTARIO 28110494 TPS - 2010-01-15.xls
- Additional Cross-section data?

Preliminary Analysis of Warranty Return arriving today… VIN 1FMCU9D76AK[redacted]
2010 2.5l Escape… 11/21/09 Veh Production date.
P0222 TP circ code. Failed apps test at Dearborn for TP2.

Can we minimize CIPSA Stock by converting to Via Sys sooner?
- What stock is at Avalon?
- What's the timing through Avalon to Delphi for production pipeline?

FordNet Access
Southeastern Michigan: 62.13673 (1FORD)

Other FordNet Locations:
(Local FordNet Access Code) + 621.3673

Non FordNet Access
Toll (International): +1.313.621.3673
Toll-free: 1.888.621.3673

PROFILE #(MEETING ID):32932041

****

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TPS 28110494 - INVENTORY IN DELPHI JUAREZ

IGARASHI LOT #	QTY BOXES	QTY PCS. TPS inventory @ SEC	Thickness	Avalon Mfg Datecode	PCB Lot Number	Igarashi TPS date codes.	Total build in IG by mfg date	Additional samples to Cross section	Thickness first 2 results	Units Thermalc ycle	Thermalc ycle rejects
112609	6	432	52 / 60	327	945	330	2448			432	0
112709	27	1944	84 / 64	329	945	331	2448			1440	0
112809	1	72	60 / 62	329	935 / 945	332	1800			72	0
112909	19	1368	62 / 90	329	935 / 945	333	2448			1368	0
113009	34	2448	62 / 60	329	945	334	648			2376	0
120109	16	1152	60 / 60	334	945	335	2448			864	0
120209	2	144	44 / 34	336	945 / 935	336	2448			72	0
120309	9	648	94 / 80	334 / 336	935 / 945	337	2567			576	0
120509	2	144	60 / 60	336	945	339	2657			72	0
120609	1	72	54 / 70	336	945	340	1436			72	0
120709	10	720	70 / 52	336	935 / 945	341	2520			792	0
120809	1	72	84 / 86	336	945	342	1495			72	0
120909	16	1152	76 / 84	342	945	343	1883			864	0
121009	5	360	78 / 86	342	945	344	2594	5	96 / 72		
121109	1	72	74 / 76	342	945	345	2744	15	108 / 80		
121209	33	2376	78 / 64	287 / 342 / 345	945	346	2433	10	104 / 82		
121309	21	1512	88 / 82	345	945	347	1722				
121409	34	2448	108 / 80	345	945	348	2493				
121509	30	2160	86 / 86	345	945	349	2696				
121609	31	2232	76 / 83	345	945	350	2361				
121709	20	1440	63 / 70	345	945	351	2370				
121809	44	3168	96 / 102	345	945	352	2679				
121908	35	2520	74 / 78	345	945	353	2693				
122009	38	2736	81 / 93	345 / 347	945	354	2741				
122109	36	2592	100 / 88	347	945	355	2726				
122209	1	72	93 / 83	347	945	356	2696				
TOTAL	**473**	**34056**								9072	0

Note: contain in plant the material highligthed in yellow and light yellow.

TPS 28110494 - INVENTORY IN DELPHI JUAREZ

IGARASHI LOT #	QTY BOXES	QTY PCS. TPS inventory @ SEC	Thickness	Avalon Mfg Datecode	PCB Lot Number	Igarashi TPS date codes.	Total build in IG by mfg date	Additional samples to Cross section	Thickness first 2 results	Units Thermalc ycle	Thermalc ycle rejects
112609	6	432	52 / 60	327	945	330	2448			432	0
112709	27	1944	84 / 64	329	945	331	2448			1440	0
112809	1	72	60 / 62	329	935 / 945	332	1800			72	0
112909	19	1368	62 / 90	329	935 / 945	333	2448			1368	0
113009	34	2448	62 / 60	329	945	334	648			2376	0
120109	16	1152	60 / 60	334	945	335	2448			864	0
120209	2	144	44 / 34	336	945 / 935	336	2448			72	0
120309	9	648	94 / 80	334 / 336	935 / 945	337	2567			576	0
120509	2	144	60 / 60	336	945	339	2657			72	0
120609	1	72	54 / 70	336	945	340	1436			72	0
120709	10	720	70 / 52	336	935 / 945	341	2520			792	0
120809	1	72	84 / 86	336	945	342	1495			72	0
120909	16	1152	76 / 84	342	945	343	1883			864	0
121009	5	360	78 / 86	342	945	344	2594	5	96 / 72		
121109	1	72	74 / 76	342	945	345	2744	15	108 / 80		
121209	33	2376	78 / 64	287 / 342 / 345	945	346	2433	10	104 / 82		
121309	21	1512	88 / 82	345	945	347	1722				
121409	34	2448	108 / 80	345	945	348	2493				
121509	30	2160	86 / 86	345	945	349	2696				
121609	31	2232	76 / 83	345	945	350	2361				
121709	20	1440	63 / 70	345	945	351	2370				
121809	44	3168	96 / 102	345	945	352	2679				
121908	35	2520	74 / 78	345	945	353	2693				
122009	38	2736	81 / 93	345 / 347	945	354	2741				
122109	36	2592	100 / 88	347	945	355	2726				
122209	1	72	93 / 83	347	945	356	2696				
TOTAL	**473**	**34056**								9072	0

Note: contain in plant the material highligthed in yellow and light yellow.

From: Bushman, Thomas (T.S.)
Sent: Friday, May 15, 2009 12:55 PM
To: Langley, Scott (C.S.)
Subject: RE: NEW CONCERNS - 15-MAY-2009

Scott - good catch.

The next time we get an ETB Fault here I'll have them hold the unit and will go through it with a fine tooth comb.

Jim Johnson, the Delphi rep, dropped off the three ETBs that had NPF in them. I'm going to put those on our test vehicle to see if I can get them to pop a code.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

From: Langley, Scott (C.S.)
Sent: Friday, May 15, 2009 6:52 AM
To: Bushman, Thomas (T.S.)
Subject: FW: NEW CONCERNS - 15-MAY-2009

Tom,
Look at the 4th one down... those are similar DTCs to what we're seeing on some of the claims we've been discussing.
I just mention it for awareness. It may already be part of the process, but we need to make sure we're ready to diagnose & troubleshoot those when they're happenning.
We surely have a few hardware faults on those returns, but it's also looking like we have some TNIs.

Sincerely,
Scott Langley
Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Redcrs, Redcrs (R.)
Sent: Friday, May 15, 2009 2:31 AM
Subject: NEW CONCERNS - 15-MAY-2009

Resident Engineering Defect Concern Reporting System REPORT PRODUCED ON 15-MAY-2009 FOR SLANGLE1

ITEMS DATED 14-MAY-2009

Redacted for relevance

Redacted for relevance

Redacted for relevance

Redacted for relevance

Redacted for relevance

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NOTE: Please do not reply to or forward this note to REDCRSIIMailer.
For issues pertaining to the REDCRSII "reporting system", please contact Glenn Visbeck (GVISBECK).
For issues pertaining to the "concerns" listed in this report, please contact the PTO Resident Engineer at the appropriate Assembly Plant.
Thank you.

From: Bushman, Thomas (T.S.)
Sent: Monday, October 05, 2009 1:17 PM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.)
Subject: RE: NEW CONCERNS - 22-SEP-2009 - PCED cheat sheet

Scott -

There are only three codes that we need to put a disclaimer on:

P2104 - Forced Idle
P2105 - Forced Shutdown
P2106 - Forced Limited Power

All of the other codes seam to pertain either the ETB or Throttle Pedal.

I'll just add a foot-note to the cheat sheet to call these out.

The techs do have access to the PCED manuals on line - but like everybody else, they are always rushing don't have the time to deep dive.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

From: Langley, Scott (C.S.)
Sent: Monday, September 28, 2009 9:51 PM
To: Bushman, Thomas (T.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.)
Subject: RE: NEW CONCERNS - 22-SEP-2009

Tom,
Sorry. I don't agree. That collection of codes includes a number of different Items and many aren't even related to A, B or C. So, it's mis-leading as written.
Some just indicate that an FMEM mode was entered which aren't necessarily even caused by an ETB. FMEM are fail-safe modes and are "symptoms" of another issue.
Do the technicians have access to the regular service PCED manuals?

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality

& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bushman, Thomas (T.S.)
Sent: Monday, September 28, 2009 12:17 PM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.)
Subject: RE: NEW CONCERNS - 22-SEP-2009

Scott - I'm posting this SPL to help the Repair Technicians diagnose vehicles with ETB and Throttle Pedal Codes. Comments?

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

From: Langley, Scott (C.S.)
Sent: Friday, September 25, 2009 4:34 PM
To: Bushman, Thomas (T.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.)
Subject: RE: NEW CONCERNS - 22-SEP-2009

Tom,
In general, where it mentions signals "Throttle / Pedal position sensor switch A or B," it's the Circuit to the ETB.

- "A," "B," and "C" are related to the ETB circuit. "C" really isn't used in most of our Ford applications. It's there in case we have a 3rd TP signal. Used on one Jag model early on.
- "D," "E," and "F" are related to the Pedal Circuit. I don't think "F" is used in most of our app's. Same situation as above... there in case there is a 3rd pedal position sensor signal.

For all of these, the issue can presumably occur anywhere between the PCM sensing the issue and the component in question. In other words, the wire harness and connections are part of the "system" that the PCM is evaluating when setting these codes.

I know that difference between A, B, C and D, E, F are not well defined/documented.
But, if you have access to the Ford PTS (Prof Technician Society) website, the PCED/Diagnostics for the specific P-codes are available in there. Those "should" send you in the right direction!

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bushman, Thomas (T.S.)
Sent: Friday, September 25, 2009 9:48 AM
To: Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: RE: NEW CONCERNS - 22-SEP-2009

Turned out that a Throttle Pedal change was also required. Wanted to be on the safe side so I sent ETB back to Delphi as a double check precaution.

The Code Book is not descriptive enough - do you have cheat sheet that breaks down which codes only apply to Pedal and which ones only apply to ETB?

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

From: Langley, Scott (C.S.)
Sent: Tuesday, September 22, 2009 10:04 AM
To: Bushman, Thomas (T.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.)
Subject: FW: NEW CONCERNS - 22-SEP-2009

Tom,
P2127 looks to be a Pedal Circuit code to me, not ETB. But, the replacement of the ETB alone fixed the issue?

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1

cell: 313-805-8789
email: slangle1@ford.com

From: Redcrs, Redcrs (R.)
Sent: Tuesday, September 22, 2009 2:30 AM
Subject: NEW CONCERNS - 22-SEP-2009

Resident Engineering Defect Concern Reporting System REPORT PRODUCED ON 22-SEP-2009 FOR SLANGLE1
ITEMS DATED 21-SEP-2009

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF02A-Cleveland Engine #2
Vehicle Build_Date	10-SEP-2009	Launch	NO
RESTAG	141692	Tran_Type	REPAIR
PartNumber	0G-758-BA	Model	3.0L RFF 4V
BuildDate	01-SEP-2009	Serial	9222-81055
ModelYear	2010	VIN	AKA41581
ConcernNumber	98389	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	ETB Suspect - Fault Code P1124 - TPS_A_OUT_OF_RANGE		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF02A-Cleveland Engine #2
Vehicle Build_Date	03-SEP-2009	Launch	NO
RESTAG	141688	Tran_Type	REPAIR
PartNumber	0G-758-BA	Model	3.0L RFF 4V
BuildDate	27-AUG-2009	Serial	9185-94055
ModelYear	2010	VIN	AKA39916
ConcernNumber	98391	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	Open circuits in CHT, O2, CMP & MAP. Engine Wire Harness changed out.		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF02A-Cleveland Engine #2
Vehicle Build_Date	11-SEP-2009	Launch	NO
RESTAG	141582	Tran_Type	PULL
PartNumber	0G-758-BA	Model	3.0L RFF 4V

BuildDate	11-SEP-2009	Serial	9220-11055
ModelYear	2010	VIN	AKA45330
ConcernNumber	98393	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	Oil leak at pan rail - all the way around.		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF02A-Cleveland Engine #2
Vehicle Build_Date	27-AUG-2009	Launch	NO
RESTAG	141689	Tran_Type	PULL
PartNumber	0G-758-BA	Model	3.0L RFF 4V
BuildDate	11-AUG-2009	Serial	9135-27055
ModelYear	2010	VIN	AKM01358
ConcernNumber	98394	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	#2 Bearing Ladder Bolt not seat / cross threaded - broke while trying to repair (to seat).		
Attachment	DSCF3272.jpg DSCF3273.jpg DSCF3274.jpg		

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF02A-Cleveland Engine #2
Vehicle Build_Date	13-AUG-2009	Launch	NO
RESTAG	141610	Tran_Type	REPAIR
PartNumber	0G-758-BA	Model	3.0L RFF 4V
BuildDate	08-AUG-2009	Serial	9116-77055
ModelYear	2010	VIN	AKA11162
ConcernNumber	98402	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	#1 Spark Plug gap too small, causing a rough idle. Plug to be returned to N.Olmos.		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF18A-Chihuahua Engine
Vehicle Build_Date	05-SEP-2009	Launch	NO
RESTAG	141690	Tran_Type	REPAIR
PartNumber	0G-316-AA	Model	2.5L DURA HE

BuildDate	25-AUG-2009	Serial	012334
ModelYear	2010	VIN	AKA30148
ConcernNumber	98390	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	ETB Suspect - P2127, THROTTLE_CIRCUIT_LOW		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF18A-Chihuahua Engine
Vehicle Build_Date	04-SEP-2009	Launch	NO
RESTAG	141653	Tran_Type	PULL
PartNumber	0G-316-AA	Model	2.5L DURA HE
BuildDate	06-AUG-2009	Serial	17-5226
ModelYear	2010	VIN	AKA40148
ConcernNumber	98392	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	ENGINE PART NUMBER IS 0G-313-CA, which is not in the data base. PULLED - suspect Camshafts out of timing. Changed VCT Solenoin, Sensor, PCM, pinned out, still getting P0340 & P0344.		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF18A-Chihuahua Engine
Vehicle Build_Date	04-SEP-2009	Launch	NO
RESTAG	141652	Tran_Type	REPAIR
PartNumber	0G-316-AA	Model	2.5L DURA HE
BuildDate	08-AUG-2009	Serial	122940
ModelYear	2010	VIN	AKA30999
ConcernNumber	98396	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	ETB Fault Code P2127		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF18A-Chihuahua Engine
Vehicle Build_Date	14-AUG-2009	Launch	NO
RESTAG	141649	Tran_Type	REPAIR
PartNumber	0G-316-AA	Model	2.5L DURA HE

BuildDate	31-JUL-2009	Serial	030944
ModelYear	2010	VIN	AKA10083
ConcernNumber	98397	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	ETB Failure - found during ETB Campaign - returned to Delphi - P2135.		
Attachment			

Assembly Plant	AP06A-Kansas City	Entry_Date	21-SEP-2009
Resident	TBUSHMAN	Build Plant	EF18A-Chihuahua Engine
Vehicle Build_Date	10-AUG-2009	Launch	NO
RESTAG	141643	Tran_Type	RETURN
PartNumber	9G-314-DA	Model	2.5L DURA HYB
BuildDate	13-JUL-2009	Serial	145114
ModelYear	2010	VIN	AKA08216
ConcernNumber	98399	Responsible	PTO
Quantity	1	VehicleType	ENGINE
Detail	Engine overheated on test drive - was missing the FEAD Belt. NO QR.		
Attachment			

****

NOTE: Please do not reply to or forward this note to REDCRSIIMailer.
For issues pertaining to the REDCRSII "reporting system", please contact Glenn Visbeck (GVISBECK).
For issues pertaining to the "concerns" listed in this report, please contact the PTO Resident Engineer at the appropriate Assembly Plant.
Thank you.

From: Langley, Scott (C.S.)
Sent: Thursday, June 04, 2009 7:49 PM
To: 'O'Neill, Daniel P'; 'Rosales, Martin'; 'Valencia, Sergio '
Cc: Bos, Ed (E.A.); Chabon, Michael (W.); Davis, Andrae (A.L.); Hall, Brent (A.)
Subject: RE: New Requirement from Scott Langley on the Melexis Screening test

Further clarification...
Per discussion with Martin Rosales, Delphi has already screened 4,164 pcs of the PVD1 TPS. Those do not need to be screened again as an ETB assembly.
Once those 4,164 pcs have been exhausted, Delphi should immediately begin the screening of the ETB and TPS assembly, prior to EOL test.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Thursday, June 04, 2009 5:31 PM
To: 'O'Neill, Daniel P'; Rosales, Martin; Valencia, Sergio
Cc: Bos, Ed (E.A.); Chabon, Michael (W.); Davis, Andrae (A.L.); Hall, Brent (A.)
Subject: RE: New Requirement from Scott Langley on the Melexis Screening test

Just a clarification to Dan's note...
At Delphi Juarez, the screening test needs to be done on ETBs before EOL test.
You can do it off-line.
Performing the screening on ETBs instead of sensors should limit the unintended consequences... damaged gaskets, contamination, etc.

The request for EOL tester fallout data on screened parts is for the purpose of gaining confidence in the screening of ETBs on Engines.

Thanks guys.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: O'Neill, Daniel P [mailto:daniel.p.o.neill@delphi.com]
Sent: Thursday, June 04, 2009 4:59 PM
To: Rosales, Martin
Cc: Valencia, Sergio ; Langley, Scott (C.S.)
Subject: New Requirement from Scott Langley on the Melexis Screening test

After discussing with his colleagues at Ford, Scott is requesting that we **do not** sort any more TPS's only offline. We must assemble the TPS to the ETB and then run the screening test. We can do this test off line. If we are doing it off line after the EOL tester we need to supply Scott with the data so far that shows we are not getting any additional fallout at our EOL tester due to running the screening test. That is, we must show with data that the screening test is not effecting the performance of the TPS.

Also, Scott wants us to make sure our engine sort will not result in ETB's that do not function. We can do this by providing the same data I mentioned above.

Please reply to the distribution with acknowledgment of the change to the sort process and also include the data Scott is looking for.

Daniel P. O'Neill
Design Engineer
Electronic Throttle Body
Delphi Powertrain Systems
Mail code: 146-Hen-530
5500 W. Henrietta Rd.
W. Henrietta, NY 14623

Phone: (585) 359-6628
Fax: (585) 359-6338
E-mail: Daniel.P.O.Neill@Delphi.com

Redacted for relevance

Redacted for relevance

From: Rose, John A <john.a.rose@delphi.com>
Sent: Thursday, November 08, 2012 8:50 AM
To: Hwang, Sheng-Jiaw (S.J.)
Subject: Analysis Regarding VIN No. AR184344 - Via Hole Return

Joe,

Here are the analysis notes regarding this Via Hole Warranty Return.

John

Technician Comments:
1217 EEC SYS SLF TST DCL MONIT PARAMETERS REPL ETB ASSY RETEST SYS CLR CDE PASS P2135 PASS

Customer Comment: C S VEH KEEPS DIEING WHILE DRIVING AND CUTTING OUT ALSO, VEH CHECK ENGINE AND WRENCH LIGHT CAME ON

Ford Observations:
Visual Inspection- no issues.

BLUE AND GREEN DOT ON MOTOR/ TPS COVER.

ONLY CLAIM RELATED TO ETB.

Analysis Notes:
At SEC: The part passed the EOL & Flow test.
The part passed MLX at room temperature
The current was found within spec. (18.52 mA)
The EEPROM readings OK
Outputs monitored OK
The resistance at connector OK
The part was sent to MTC for further analysis

Add'l Analysis Notes:
TPS Failure was detected at high temperature 125C testing. Part was confirmed as Via Defect. High resistance on Vref_A trace

John Rose
Customer Resident Applications Engineer - ETB
Delphi - Customer Technology Center Michigan (CTCM)
3000 University Drive
Auburn Hills, MI 48326
Office Phone: 248-836-0585
Cell: 810-623-6785

From: Davis, Andrae (A.L.)
Sent: Wednesday, November 07, 2012 4:41 PM
To: Hwang, Sheng-Jiaw (S.J.)
Subject: Claim History of 3FAHP0HA2AR[redacted]

Server: **AWS QA**
Claims loaded through: **06-NOV-2012**

STANDARD CLAIMS LIST

AWS Online Report

Run Date: 07-NOV-12
Note: All Costs are in US Dollars Server Name: AWS QA Claims loaded through

Redacted for relevance

3FAHP0HA2AR184344 DE C/DE F C/FA C/QC C/A A3 C/W6 C/SB 24-JUL-2009 14-AUG-2009 121585 USA 1 6Y20 * CONEXP * F09 SXX V99 A99 82

AWS Claim Key: 39679 **Doc #:** 046843C **Trx Code:** P11 **Labor Hrs:** 0 **Labor Cost:** 0 **Material Cost:** 0 **Total Cost:** 800

Dlr Cd-Sub Cd: 04910-* **Name:** COOK-WHITEHEAD FORD **Ph:** 850-7840400 **St:** FL **Ctry Cd:** USA **Reg Cd:** NA **Repr Date:** 31-AUG-2009 **DIST(Mile):** 1217

Cust Comments: RETURN VEHICLE TO CUSTOMER AFTER REPAIRS
Tech Comments: RETURNED VEHICLE TO OUT OF STATE CUSTOMER AFTER REPAIRS COMPLETED. CUDL CASE# 1794412439

3FAHP0HA2AR184344 DE C/DE F C/FA C/QC C/A A3 C/W6 C/SB 24-JUL-2009 14-AUG-2009 121585 USA 1 6Y20 * RENTAL * F09 SXX V99 A99 82

AWS Claim Key: 39678 **Doc #:** 046843B **Trx Code:** P11 **Labor Hrs:** 0 **Labor Cost:** 0 **Material Cost:** 0 **Total Cost:** 550

Dlr Cd-Sub Cd: 04910-* **Name:** COOK-WHITEHEAD FORD **Ph:** 850-7840400 **St:** FL **Ctry Cd:** USA **Reg Cd:** NA **Repr Date:** 31-AUG-2009 **DIST(Mile):** 1217

Cust Comments: SERVICE LOANER
Tech Comments: CUDL CASE# 1794412439, TRANSPORTATION

3FAHP0HA2AR184344 DE C/DE F C/FA C/QC C/A A3 C/W6 C/SB 24-JUL-2009 14-AUG-2009 121585 USA 1 2E03 9L8Z 9E926 A F04 S11 V52 D21 41

AWS Claim Key: 40472 **Doc #:** 046843A **Trx Code:** S07 **Labor Hrs:** 1.2 **Labor Cost:** 88.93 **Material Cost:** 195.32 **Total Cost:** 284.25

Dlr Cd-Sub Cd: 04910-* **Name:** COOK-WHITEHEAD FORD **Ph:** 850-7840400 **St:** FL **Ctry Cd:** USA **Reg Cd:** NA **Repr Date:** 31-AUG-2009 **DIST(Mile):** 1217

Cust Comments: C S VEH KEEPS DIEING WHILE DRIVING AND CUTTING OUT ALSO, VEH CHECK ENGINE AND WRENCH LIGHT CAME ON
Tech Comments: 1217 EEC SYS SLF TST DCL MONIT PARAMETERS REPL ETB ASSY RETEST SYS CLR CDE PASS P2135 PASS

Redacted for relevance

Redacted for relevance

Redacted for relevance

Tech Comments: REPROGRAM PCM

Any comments? You can contact

webmaster

From: Dixon, Mark (M.R.)
Sent: Wednesday, January 19, 2011 11:04 AM
To: Langley, Scott (C.S.); McCoy, Jim (D.)
Cc: Pulay, Kirk (K.); Misangyi, Pete (P.W.); Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ

Scott, you're correct as I recall. They do share a Vref. Jim, pls confirm.

Redacted for relevance

From: Langley, Scott (C.S.)
Sent: Wednesday, January 19, 2011 9:48 AM
To: Dixon, Mark (M.R.)
Cc: Pulay, Kirk (K.); Misangyi, Pete (P.W.); Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ

Thanks Mark!
I believe they do share VREF though, don't they?

Redacted for relevance

Note that Kirk has forwarded some information on this subject to Kelly Arbanas on Pete's team.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Dixon, Mark (M.R.)
Sent: Wednesday, January 19, 2011 9:13 AM
To: Langley, Scott (C.S.)
Subject: FW: P2111/2 DTC on 3.5l Fusion/MKZ

Scott, might want to past this into any 6 panel you are putting together. I don't think the pedel application plays in setting of stuck throttle DTC (need to confirm this with Misangyi's team), but good to get this information saved somewhere.

From: Dressing, Thomas (T.G.)
Sent: Wednesday, January 19, 2011 9:10 AM
To: Dixon, Mark (M.R.); Misangyi, Pete (P.W.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ

The pedals aren't exactly the same and how similar they are depends on the engine (IVCT vs. TIVCT).

CD3 3.5L --- KSR 3-trk contacting

Redacted fpr relevance

The different 3-trk contacting pedals are similar, but different due to different vehicle packaging.

If 2-trk vs. 3-trk, your dealing with a completely different control system in addition to the pedal differences.

Regards,
Tom Dressing
e-mail: tdressin@ford.com, Phone: 313-805-5803

From: Dixon, Mark (M.R.)
Sent: Wednesday, January 19, 2011 7:48 AM
To: Misangyi, Pete (P.W.); Dressing, Thomas (T.G.)
Cc: Oyafuso, Kevin (K.G.)
Subject: FW: P2111/2 DTC on 3.5l Fusion/MKZ

Pete, who from your team should we include in the review of this "stuck throttle" DTC concern that appears to be impacting the 3.5L CD much more that similar PT on RFR?

Tom, are different pedals used on the 3.5L CD vs 3.5L RFR applications?

From: Langley, Scott (C.S.)
Sent: Friday, January 14, 2011 5:41 PM
To: Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Wilson, David (D.G.); Soper, Todd (R.); Davis, Andrae (A.L.); Chabon, Michael (W.); Pulay, Kirk (K.)
Subject: P2111/2 DTC on 3.5l Fusion/MKZ

Mark,
Perhaps Dave and Todd have already approached you on this...
We have a number of claims binned as ETB causal for the subject DTC & application which occur after our clean date (8/3/2010) for our known silicone gasket outgassing issue.
While the same throttle is utilized on the naturally aspirated Redacted for relevance, the claims are occurring disproportionately on 3.5l Fusion/MKZ.

Is there anything going on with that application with respect to calibration/controls issues?
Are there any differences in calibration, controls or hardware that might explain the difference in performance from Fusion/MKZ vs RFR?

Kirk already looked into the versions of ETC.
I'm thinking transmission control or similar?
Or, pedal Hardware?

We appreciate any guidance you can provide.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Boerger, Jim (J.G.)
Sent: Wednesday, March 20, 2013 6:32 PM
To: Hwang, Sheng-Jiaw (S.J.); Chabon, Michael (W.)
Subject: RE: QSF Service Closure

Sounds good! Jim

From: Hwang, Sheng-Jiaw (S.J.)
Sent: Wednesday, March 20, 2013 2:15 PM
To: Boerger, Jim (J.G.); Chabon, Michael (W.)
Subject: FW: QSF Service Closure

FYI

From: Harmon, Derek (D.M.)
Sent: Wednesday, March 20, 2013 1:55 PM
To: McDonagh, Scot (S.M.); Wagner, Glen (G.C.); Zilinskas, Steve (S.E.)
Cc: Dixon, Mark (M.R.); Hwang, Sheng-Jiaw (S.J.)
Subject: RE: QSF Service Closure

Yes. Our current plan is to close the QSF with an SSM informing technicians how to use the new IDS tool. IDS tool scheduled to be public 4/3.

Derek M. Harmon
Ford Customer Service Division
EESE Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: McDonagh, Scot (S.M.)
Sent: Wednesday, March 20, 2013 1:48 PM
To: Wagner, Glen (G.C.); Harmon, Derek (D.M.); Zilinskas, Steve (S.E.)
Cc: Dixon, Mark (M.R.); Hwang, Sheng-Jiaw (S.J.)
Subject: RE: QSF Service Closure

Are we on track for 4/3/ QSF closure ?

Scot G. McDonagh
PT Quality Engineering

Phone: (313)337-8091
smcdonag@ford.com

From: Wagner, Glen (G.C.)
Sent: Tuesday, February 12, 2013 9:47 AM
To: McDonagh, Scot (S.M.); Harmon, Derek (D.M.); Zilinskas, Steve (S.E.)
Cc: Sparks, Douglas (D.S.); Ricks, Kevin (K.J.)
Subject: RE: QSF Service Closure

The April 3 timing is a stretch objective, note that the IDS tool activity is engineering, testing, and releasing an all new diagnostic tool for the IDS hardware. We could have closed the QSF with a TSB however PD & FCSD agreed that this higher quality solution justified the extended QSF timing.

Glen Wagner
FCSD Commodity Program Manager, Fuel / Exhaust / Air Induction / Cooling / Controls / Calibration / Gas Engine
Phone 313 32-26768

From: McDonagh, Scot (S.M.)
Sent: Tuesday, February 12, 2013 7:53 AM
To: Harmon, Derek (D.M.); Zilinskas, Steve (S.E.); Wagner, Glen (G.C.)
Cc: Sparks, Douglas (D.S.); Ricks, Kevin (K.J.)
Subject: QSF Service Closure
Importance: High

PT Executive Management is asking if there is any opportunity to pull ahead IDS tool release for QSF Service closure ?

2009-2012MY CD3/U377 RPM drop with No DTCs: Delphi implemented ETB Motor run in test on 7/18/12. TSB release for QSF service closure delayed due to IDS Tool release needed for Diagnostics. **Required 68/90- 2-2/NA. Production- N/A Service- 4/3/13 Yellow Status**

Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date
GAS ENGINE	2009-2012	10420120025-Escape/Fusion No DTC w/ Drop in RPM	POW	RRENWICK - SHWANG - DHARMON3	**CC:** intermittent difficult to duplicate no DTC drop in RPM **CA:** throttle body **SC:** replace throttle body **PC:**N/A. Out of production vehicles **ST:** Jan/24th: Developing IDS tool for TSB.	26/Nov/2012	2/Feb/2013

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Harmon, Derek (D.M.)
Sent: Tuesday, August 24, 2010 3:38 PM
To: Soper, Todd (R.); Osepchook, William (W.R.); Chabon, Michael (W.)
Subject: RE: Report Summary for the CQIS Report#AHKEA012

Went from 371 to 339 reports. Good call Todd.

From: Soper, Todd (R.)
Sent: Tuesday, August 24, 2010 3:28 PM
To: Harmon, Derek (D.M.); Osepchook, William (W.R.); Chabon, Michael (W.)
Subject: RE: Report Summary for the CQIS Report#AHKEA012

Need to exclude P2104-P2105 as well.

Todd Soper
D35/37/iVCT Engine Systems Engineer
LGDEE OPD
Cell: 313-805-4247

From: Harmon, Derek (D.M.)
Sent: Tuesday, August 24, 2010 1:18 PM
To: Osepchook, William (W.R.); Chabon, Michael (W.)
Cc: Soper, Todd (R.)
Subject: RE: Report Summary for the CQIS Report#AHKEA012

I re-did my search and excluded reports with P2100, P2101-P2012, P2120-P2124, P2135-P2140 codes and got **371 reports.**

From: Osepchook, William (W.R.)
Sent: Tuesday, August 24, 2010 12:29 PM
To: Harmon, Derek (D.M.); Chabon, Michael (W.)
Cc: Soper, Todd (R.)
Subject: RE: Report Summary for the CQIS Report#AHKEA012

With no codes?

From: Harmon, Derek (D.M.)
Sent: Tuesday, August 24, 2010 12:20 PM
To: Osepchook, William (W.R.); Chabon, Michael (W.)
Cc: Soper, Todd (R.)
Subject: RE: Report Summary for the CQIS Report#AHKEA012

We have 375 GCQIS reports of a slow speed stall from Jan-Present on everything the 7T4E-9F991-GA fits. Parts sales are increasing as well.

MONTH	YEAR	Quantity
08	2010	3276
07	2010	4047
06	2010	3248
05	2010	2025
04	2010	1544
03	2010	1177
02	2010	762
01	2010	621
12	2009	497
11	2009	647
10	2009	767

From: Osepchook, William (W.R.)
Sent: Tuesday, August 24, 2010 12:04 PM
To: Chabon, Michael (W.)
Cc: Soper, Todd (R.); Harmon, Derek (D.M.)
Subject: ETB: Report Summary for the CQIS Report#AHKEA012

Hi Mike,
See report below. This is what I was talking about on Friday. Intermittent with no codes.

Derek,

How many of these do we have so far?

From: Harmon, Derek (D.M.)
Sent: Tuesday, August 24, 2010 11:41 AM
To: Osepchook, William (W.R.)
Subject: FW: Report Summary for the CQIS Report#AHKEA012

Bill, I'm getting these daily. Did you have a chance to speak w/ the chiefs about how we're going to handle?

Thanks as usual!

Derek M. Harmon
FCSD Concern Engineer
Ford Motor Company
email: dharmon3@ford.com
phone: 313-317-4276

From: KPELT@ford.com [mailto:KPELT@ford.com]
Sent: Tuesday, August 24, 2010 11:37 AM
To: Harmon, Derek (D.M.)
Subject: Report Summary for the CQIS Report#AHKEA012

Redacted for relevance

Redacted for relevance

From: Boerger, Jim (J.G.)
Sent: Wednesday, January 04, 2012 1:16 PM
To: Langley, Scott (C.S.)
Subject: RE: Report Summary for the CQIS Report#BLSC9011

Thanks ... I concur, Jim

Jim Boerger
Manager - Component Design C Department
Global Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

Share the Ford story at http://www.thefordstory.com

From: Langley, Scott (C.S.)
Sent: Wednesday, January 04, 2012 12:10 PM
To: Boerger, Jim (J.G.)
Subject: FW: Report Summary for the CQIS Report#BLSC9011

Jim,
FYI... suspected Electrical Interference on 3.0l Fusion... We're modifying one of the 3.5l Jumpers to provide to the dealer. And, we're checking on status of the debounce changeover for this model...9L8E. We believe Delphi built the functionals, but not confirmed that they have been shipped or received BY the plants. In the interest of time and not "incriminating all ETBs," the best thing is to get the jumper to the dealer immediately.
A couple of workstreams are going on this as well as Explorer.

- Scott

From: Langley, Scott (C.S.)
Sent: Wednesday, January 04, 2012 10:08 AM
To: Osepchook, William (W.R.); Pulay, Kirk (K.)
Cc: Dodds, Jordan (J.); Selthofer, Adam (A.); Schiltges, Dave (D.); Davis, Andrae (A.L.); Chabon, Michael (W.); Parkinson, Tim (T.M.)
Subject: RE: Report Summary for the CQIS Report#BLSC9011

3.0l Fusion... I had a feeling based on the numbers we've seen on this application!

I suspect the same electrical noise interference issues we've seen elsewhere.
I am wondering whether it is wiper module or UEGO. Sounds like it coincides with startup... = UEGO.

What is the rest of the history on this vehicle? ... any other claims/codes/issues? .... trans, etc.?

I would almost jump right to running a jumper to the ETB, if there are no other reported concerns.
Like the 3.5l, I believe this is a relatively short, direct run.

We should call the hotline and technician together.

Andrae,
Could you pull up the wire harness schematic on this application?

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg (for Engine Components)
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Osepchook, William (W.R.)
Sent: Wednesday, January 04, 2012 9:58 AM
To: Langley, Scott (C.S.); Pulay, Kirk (K.)
Cc: Dodds, Jordan (J.); Selthofer, Adam (A.); Schiltges, Dave (D.)
Subject: RE: Report Summary for the CQIS Report#BLSC9011
Importance: High

Hi Scott/Kirk,

*****3.0L with P0123 and P0222*******
See below.....need input ASAP.....customer seeking buyback.

From: Dodds, Jordan (J.)
Sent: Wednesday, January 04, 2012 9:22 AM
To: Osepchook, William (W.R.)
Subject: FW: Report Summary for the CQIS Report#BLSC9011

Bill,

I'm not sure if this is your territory, but are we seeing P0123 and P0222 faults on the 3.0L as well as a result of how the circuitry is routed in the harness?

Thanks

Jordan Dodds
Service Engineer - Gas Engine
3.0/3.5/3.7/GTDI Subject Matter Expert
Escalated Handling
Diagnostic Service Center 1
1700 Fairlane Drive
Allen Park, MI 48101
313-248-8183
Cube # 338

From: DBARRE63@ford.com [mailto:DBARRE63@ford.com]
Sent: Tuesday, January 03, 2012 5:14 PM
To: Schober, Michael (M.); Wagoner, Casey (C.); Dodds, Jordan (J.)
Cc: Barrett, Dale (D.)
Subject: Report Summary for the CQIS Report#BLSC9011

Vehicle has a open CUDL, customer seeks buyback. Vehicle has fault P0123, P0222. The throttle body and PCM were replaced with no change. 105053521

Attachments : 0

Report# :	BLSC9011 NHL			**Received:**	12/19/2011
CCRG/EPRC:		**Reviewed Status:**		**Date:**	
Vehicle:	2011,FUSION ,SE ,4 DOOR ,SEDAN [redacted]			**Build Date:**	03/08/2011
Odometer :	3,550 M	**Engine:**	3.0L 4V	**Calibration:**	ADE1F60A
Transmission:	6SP 6F MID	**Axle:**	3.208 FDR	**A/C:**	YES
Dealer:	USA 11126 Dahl Automotive of Onalaska			**Phone#:**	(608) 779-2886
City:	Onalaska	**State:**	Wisconsin	**Country :**	USA
Originator:	GARY TEADT				
Symptom:	2 27 5 30 AID/INFO,WNG IND/MESS/C,WRENCH IMAGE,FLASHES				
Status:					
VFG:	V83 INSTRUMENTATION FUNCTION				
Additional Symptom:	P0123,P0222				
Fix:	**Causal Component :**				
Condition Code:					

Hotliner: MSCHOBE3 **Phone:** 000 317-9126 **Regn Cd:** G5 Twin Cities

Engineering: MICHAEL SCHOBER **Phone:** 313 317-9126 **TAR:**

Dlr Contact: GARY TEADT **Phone:** 608 779-6400 **Title Cde:** T

DTCs:

KOEO:

KOEC:P0123 P0222

KOER:

Comments :

REPAIR 12/19/2011 03:06PM MICHAEL SCHOBER MSS - FCSD - TECH SVC HOTLINE
WEB FORM DATA - CONCERN:WRENCH LIGHT CAME ON TWICE. VEHICLE RAN POORLY. DIAGNOSTICS: DID NOT VERIFY LIGHT ON. RAN SELF TEST, NO CODES STORED IN ANY MODULE. PARTS REPLACED:NONE. TECH QUESTION:ANY KNOWN REPAIRS FOR CONCERN LISTED? CUSTOMER HAS TAKEN TWO
PICTURES AT DIFFERENT MILEAGES WITH LIGHT ON NOT LONG AFTER START UP OF THE INSTRUMENT CLUSTER.

RECOMM 12/19/2011 03:06PM MICHAEL SCHOBER MSS - FCSD - TECH SVC HOTLINE

GARY, RECOMMEND MONITORING MAF (VERIFY AIR INTAKE ASSEMBLY IS TIGHT/SECURE WITH CLEAN AIR FILTER, DEBRIS MAKING IT PAST A POOR SEALING AIR FILTER CAN CONTACT THE MAF AFFECTING MAF READINGS), THROTTLEBODY OPERATION (ETC ACTUAL AND ETC DESIRED SHOULD READ WITHIN 3 DEGREES OF EACH OTHER ALONG WITH ETC_TRIM READING NO MORE THAN 3 DEGREES OF CORRECTION), CKP, AND ALL VEHICLE SPEED SENSORS CLOSELY FOR CONCERNS. IF ONE OF THESE SENSORS ARE READING INCORRECTLY IT CAN CAUSE A TORQUE CALCULATION EVENT TO OCCUR (CAN LEAD TO FMEM AND A ROUGH RUNNING CONCERN) WITH WRENCH LIGHT ILLUMINATION. IF THE FAULT IS NOT PRESENT LONG ENOUGH THE WRENCH LIGHT CAN ILLUMINATE WITH NO CODES BEING PRESENT. IF THE PIDS ARE READING NORMALLY BUT THROTTLEBODY OPERATION IS ERRATIC INTERMITTENTLY, RECOMMEND REPLACING THE THROTTLEBODY ASSEMBLY AND RETEST. PAST REPORTS HAVE INDICATED THE THROTTLEBODY AS A CAUSE OF SIMILAR INTERMITTENT CONCERNS. IF OK, RECOMMEND INSTALLING A VDR FOR FURTHER DIAGNOSIS DURING THE EVENT.

REPAIR 12/21/2011 11:36AM DALE BARRETT MSS - FCSD - TECH SVC HOTLINE

MONITORED ETC READINGS, AND MAF. DID NOT SEE CONCERN. INSTALLED VDR. DROVE VEHICLE. WRENCH LIGHT CAME ON AT START UP. MADE RECORDING. RECORDING SHOWS ERRATIC TP 1 AND TP 2. ALSO HAVE CODES P0222 AND P0223 STORED. REPLACED THROTTLE BODY AT PREVIOUS REPAIR. PERFORMED WIGGLE TEST AT THROTTLE BODY CONNECTOR, VEHICLE RAN NORMALLY WHILE PERFORMING TEST. PINS ARE IN GOOD CONDITION. REPLACED THROTTLE BODY AGAIN? ARE THERE REPORTS OF REPEAT FAILURE OF THROTTLE BODY?

RECOMM 12/21/2011 11:36AM DALE BARRETT MSS - FCSD - TECH SVC HOTLINE

GARY, THE APP AND TP SHARE THE SAME VREF CIRCUIT. INSPECT CIRCUITS FOR MISROUTING, CUTS, CHAFES OR WATER INTRUSION. INSPECT THE APP AND TP CIRCUIT TERMINALS FOR DAMAGE, CORROSION OR WATER.VERIFY THE APP FUNCTION CORRECTLY ON A COLD START. IF ALL CIRCUIT TESTS PASS REPLACE THE PCM AND RETEST.

REPAIR 01/03/2012 05:11PM DALE BARRETT MSS - FCSD - TECH SVC HOTLINE

WEB FORM DATA - CONCERN:WRENCH LIGHT ON AND CHECK ENGINE LIGHT ON. VEHICLE RUNS POORLY. DIAGNOSTICS: RAN SELF TEST, CODES P0123 AND P0222 STORED. WRENCH LIGHT AND CHECK ENGINE LIGHT NOT ON AT THIS TIME. PARTS REPLACED:NONE TECH QUESTION:VEHICLE IN IN FOR 5TH TIME WITH SAME CONCERN. HAVE REQUEST FROM CUSTOMER ASSISTANCE CENTER TO GET FSE INVOLVED IN DIAGNOSIS. REQUESTING FSE TO CONTACT DEALER FOR

ASSISTANCE. HAVE REPLACED THROTTLE BODY AND PCM. HAVE INSPECTED PINS

AT PCM AND THROTTLE BODY. HAVE INSPECTED HARNESS FOR DAMAGE.

ESCLHD **01/03/2012 05:11PM DALE BARRETT MSS - FCSD - TECH SVC HOTLINE**

GARY, WE HAVE ESCALATED THIS CONCERN FOR ADDITIONAL REVIEW. A REPRESENTATIVE SHOULD CONTACT YOU BY PHONE OR THROUGH THIS HOTLINE

ASSISTANCE REQUEST WITHIN ONE (1) BUSINESS DAY WITH ADDITIONAL INFORMATION OR RECOMMENDATIONS TO ASSIST IN THE RESOLUTION OF THIS VEHICLE CONCERN.

AUDIT **01/03/2012 05:11PM DALE BARRETT MSS - FCSD - TECH SVC HOTLINE**

ODOMETER 3078 M CHANGED TO 3550 M BY DBARRE63

From: McRoy, Gitanjli (G.)
Sent: Monday, August 17, 2009 2:08 PM
To: Sarkisian, Mark (Z.); Langley, Scott (C.S.)
Subject: RE: Stop Ship #xxxx: 2010 MY U377 and CD338

Mark- your new contact is Scott Langley.
And yes, you are correct, that ETB part number is 2.5L/3.0L only, RFR Also, the PIA TP sensor is NOT common.

Regards,
Gitanjli McRoy
I4 PFI Engine Systems Supervisor
LG&D Engine Engineering, Ford Motor Company
Ph: (313)84-58292
gmcroy@ford.com

Redacted for relevance

Redacted for relevance

From: Powers, Ken (K.W.)
Sent: Sunday, August 16, 2009 11:22 AM
To: Powers, Ken (K.W.); Wood, Jeffery (J.C.); Wishnousky, Dale (D.S.); Loeffler, Eric (E.J.); Green, Ann (A.D.); Gourneau, Frank (F.B.); DeMarco, Joe (J.J.); Hinrichs, Joseph (J.R.); Jacobs, Betsy (E.A.); Kempf, Gregory (G.J.); Kote, Keshava (K.); Bushman, Thomas (T.S.); Christensen, Kris (K.S.); Hand, James (J.E.); Marck, Edmond (E.C.); Crowe, John (J.M.); Martin, Carolyn (CJ.); Zaner, Daniel (D.J.); Jenkins, Jim (J.T.); English, Loy (L.E.); DeFever, Lawrence (L.A.); Fowler, Bennie (B.W.); Davis, Frank (F.V.); Kuzak, Derrick (D.M.); Samardzich, Barb (B.J.); Reitz, Graydon (G.A.); Hettle, Bruce (B.W.); Cash, Linda (L.G.); Torolski, Michael (M.A.); Winegarden, Marsha (M.E.); Vido, Adrian (A.J.); Opaleski, Steven (S.J.); Calhoun, Philip (P.T.); Khan, Mohammod (T.); Myers, Matthew (M.D.); Cadwell, Rhoda (R.A.); Huff, Brad (B.D.); Roth, John (J.C.); Mascarenas, Paul (P.A.); Visintainer, Randal (R.H.); Belanger, Grant (G.E.); Stec, Pamela (P.); Davis-Smith, Kenyatta (K.T.); Lowe, Walter (W.E.); Osaer, Mark (M.M.); Gaecke, Pete (P.A.); Storves, Bill (W.K.); Velliky, Dave (D.A.); Brown, Tony (Thomas K.); Fredal, Joseph (J.G.); Loewy, Graham (G.P.); Shanahan, J D (J D.); Ankenbauer, Neil (N.D.); Marowelli, Bart (B.); Shashlo, Michael (M.L.); Green, Ann (A.D.); Horbal, Colin (C.P.); Renwick, Rick (R.J.); Fascetti, Bob (R.J.); Moore, Andrew (R.); Wright, Robin (R.A.); Ickes, Bill (B.K.)
Cc: Kwasniewicz, Chris (C.L.); Cantrell, David (D.D.); Thornton, George (G.A.); Cupka, Dick (R.D.); Goran, Jim (J.L.); Mayer, Thomas (T.A.); Collins, Keith (K.O.); Taylor, James (J.D.); Keinath, Wayne (W.); Marowelli, Bart (B.); Granfors, John (J.); Drenner, Casey (C.M.); Mogasala, Murali (M.); Galindo, Sergio (S.N.)
Subject: Stop Ship #xxxx: 2010 MY U377 and CD338

Vehicles Affected: 2010 MY Escape/Mariner/Tribute and CD338 with 2.5L and 3.0L Engines

Plants Affected: Kansas City and Hermosillo Assembly Plants

Part Affected/Supplier: 9L8E-9F991-BC; Throttle Body / Delphi

WERS Alert Numbers: A12268898 / A12268042 *(**Note**: A stop ship number could not be generated today because the database is down)*

8/15/2009:

Description:
A Stop Ship has been issued for 2010 MY Escape/Mariner/Tribute and CD338 vehicles with 2.5L and 3.0L due to Throttle Body concerns causing a check engine light.

Root Cause:
Contamination within the VIA holes of the printed circuit board in the throttle position sensor due to lack of adequate cleaning during the drilling process. The plating of the circuit through that hole is inadequate and poorly adhered because of that contaminant. This has been confirmed through thermal cycle testing.

Containment:
TBD. Traceability is under investigation from the Tier 4 in India. Vehicles are being held at both Assembly plants.

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

From: Bos, Ed (E.A.)
Sent: Wednesday, August 19, 2009 8:22 AM
To: Chabon, Michael (W.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Langley, Scott (C.S.)
Subject: RE: Testing 4 returns for potential circuit board issue

Additional testing after 34 loops. All parts passed. Testing halted and parts handed-off to Shappy.

Part AKA01634 is from KCAP.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Bos, Ed (E.A.)
Sent: Tuesday, August 18, 2009 10:38 AM
To: Chabon, Michael (W.); Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Langley, Scott (C.S.)
Cc: Bos, Ed (E.A.)
Subject: Testing 4 returns for potential circuit board issue

1 soak for 2 hours at 125C then 2000ms Melexis application test:

AR600295: passed
AR617696: passed - this is a customer return 2.5L Hermisillo
AR600149: passed
AKA01634: passed - this is the part that was tagged from CEP II with TPS out of range during WOT test

15 loops (30 minutes -40C to 30 minutes 125C) then 2000ms Melexis application test:

AR600295: passed
AR617696: passed
AR600149: passed
AKA01634: passed

LET ME KNOW WHEN I SHOULD STOP THE TEST. WE CAN CONTINUE CYCLING TODAY IF WE WANT.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Bushman, Thomas (T.S.)
Sent: Tuesday, August 18, 2009 12:42 PM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.)
Cc: Horbal, Colin (C.P.)
Subject: RE: Update - Stop Ship Alert A12268898: Delphi ETBs (Fusion/Milan/Escape/Mariner)

Jim / Scott - If an ETB fails on the Thermal Cycle test does it fail permanently, or will it start to operate again when it returns to an ambient temperature? If it does start working again could we use known defective ETBs to develop "In-Vehicle Thermal Cycle" test to prove out the process?

If this is possible, could you please have known defective ETBs expedited to KCAP so we can start developing the "In-Vehicle" test on a large sample size of units.

Thanks - please let me know.

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

From: Boerger, Jim (J.G.)
Sent: Tuesday, August 18, 2009 6:22 AM
To: Renwick, Rick (R.J.); Bushman, Thomas (T.S.); Powers, Ken (K.W.); Durand, Gerardo (G.D.); Galindo, Sergio (S.N.); Urquidi, Ernesto (E.); Loeffler, Eric (E.J.); Shanahan, J D (J D.); Moore, Andrew (R.); Nicholson, Jeff (J.J.); Chabon, Michael (W.); Hall, Brent (A.); Horbal, Colin (C.P.); Parkinson, Tim (T.M.); Langley, Scott (C.S.)
Subject: Update - Stop Ship Alert A12268898: Delphi ETBs (Fusion/Milan/Escape/Mariner)

Here is a consolidated summary of facts surrounding the Delphi throttle body quality issue (updates shown in **blue** font):

- Issue: Contamination introduced at Delphi electronic throttle body (ETB) sub-supplier (CIPSA, Tier 4, located in India). The contamination is encapsulated underneath an electrically conductive material (copper plating on printed circuit board) Upon thermal cycling, an open circuit results in the throttle position sensor (TPS). CIPSA produced a batch of 35,000 suspect components in the June timeframe, which flowed thru the pipeline, entering Ford inventory on June 19. A second batch of approximately 70,000 parts have been produced and are within the pipeline - failures have been observed in both batches of material. Of these two lots of material, 69,528 have been shipped to FMC engine plants.

- Vehicle function: The subject open circuit results in various MIL and non-MIL codes (P2135, P2111, P0122, and potentially others) and vehicle enters FMEM (pedal follower mode) or limp home mode.

- Impact on Ford: The Delphi (9L8E) ETB is utilized in the 2.5L (Chihuahua Engine Plant) and 3.0L (Cleveland Engine Plant), impacting Kansas City (Escape, Mariner, and HEV) and Hermosillo (CD3 and HEV). Low vehicle inventory exists in the dealer network for these high fuel economy vehicles (cash for clunker candidates). A stop ship (Alert A12268898) was issued at both assembly plants for the affected vehicles.
  (Note: Both impacted vehicle assembly plants and engine plants are not operating until 8/24/2009 due to a previously planned period of downtime)

- Key actions taken:

- An initial containment plan was enacted - heating the TPS to 125 degrees C and checking for "open circuit" (a fall-out of approximately 3 R/1000 resulted). An improved containment process was implemented Sunday PM (20 cycles of thermal cycling from -40C to 125C) with initial improved containment ETB delivery expected to ChEP and CEP on Tuesday evening. This containment option is viable for ETBs that have not yet been assembled with the throttle position sensor.

- Containment options for ETBs that are presently complete assemblies (returns from engine and assembly plants) were reviewed with Delphi Monday evening. A tamperproof feature of the TPS prevents reprogramming of the TPS after thermal cycling and re-assembly. As a result, the a vehicle based thermal test is being re-evaluated and scripted for review Tuesday AM.

- Initiated high-mileage durability assessment Friday PM - 1000 pieces of TPS are being thermal cycled from -40 to +125 C to simulate time-in-service
  - Failure rate during this accelerated test estimated at 9 R/1000 (plan to continue test to monitor fall-out - majority of failures occurred prior to 10 thermal cycles with one additional failure occurring at cycle # 40). This test continues to run longer term.

- Delphi has contacted CIPSA to initiate re-filling the "pipeline" with clean stock - current assessment is that clean stock available 8/28 (unacceptable). Delphi requested to reduce timeline by 50%
  - Note: Chihuahua, Cleveland, Hermosillo, and KC are all shut down the upcoming week, resuming production on 8/24 (Monday) Chihuahua requesting "clean" stock by COB on Wednesday (8/19/2009).
  Delphi has ongoing reviews with CIPSA (India) to review "clean stock" delivery improvements - report due Monday.
  - Engine and assembly plant logistics personnel (MP&L) are reviewing Delphi containment delivery plans for compatibility with vehicle build schedules - a follow-up meeting is scheduled for Tuesday AM to finalize arrangements.

- Delphi STA personnel arriving at CIPSA on Monday to confirm effective containment action and root cause definition. Ford STA local (India) Ford STA personnel have arrived at CIPSA and are reviewing the details of CIPSA containment plans and corrective actions.

- Meeting cadence: 24 X 7 work plan with twice daily meeting schedule (scheduled based upon critical decision points)
  - Next meeting: Tuesday (8/18) at 10:00 AM EST

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Bos, Ed (E.A.)
Sent: Tuesday, January 19, 2010 12:57 PM
To: Jiang, Siyuan (S.); Langley, Scott (C.S.)
Cc: Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: Updated PTH Design Rule

Hella (Bosch) and Delphi are compliant with our design rule, and these are the only suppliers we are using with printed circuit boards for Electronic Throttle.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Jiang, Siyuan (S.)
Sent: Tuesday, January 19, 2010 10:40 AM
To: Langley, Scott (C.S.); Bos, Ed (E.A.)
Cc: Hall, Brent (A.); Chabon, Michael (W.)
Subject: FW: Updated PTH Design Rule

Scott, D150, the last item on the list, is the design rule I mention at the RoadMap meeting today.

Ed, Has your design rule been implemented to all affected suppliers/programs?

Thanks.

Siyuan Jiang, Ph.D.
Supervisor, P/T Engineering, LGDEE - Forward Model Quality
Email: sjiang@ford.com
Phone: 313-805-7448

From: Hall, Brent (A.)
Sent: Tuesday, October 27, 2009 2:39 PM
To: Jiang, Siyuan (S.)
Subject: RE: Updated PTH Design Rule

Please review design rule checklist & design rule D150 (check link and see if it works).

Models effected Escape/Mariner & Fusion/Milan - 2.5L , 2.5L HEV & 3.0L

<< File: Design Rule ETB Checklist.xls >>

Brent Hall
Air Metering Technical Specialist
bhall60@ford.com
Ford Motor Company
CELL PHONE NUMBER (313) 805-9223

From: Jiang, Siyuan (S.)
Sent: Thursday, October 22, 2009 11:15 AM
To: Hall, Brent (A.)
Subject: RE: Updated PTH Design Rule

Brent, Let me know when this rule is published. Also, what are the programs affected and are these programs covered with this rule? Need the info to close PD portion of SS2089 prevent recurrence.

Thanks.

Siyuan Jiang, Ph.D.
Supervisor, P/T Engineering, LGDEE - Forward Model Quality
Email: sjiang@ford.com
Phone: 313-805-7448

From: Hall, Brent (A.)
Sent: Tuesday, October 06, 2009 9:57 AM
To: Jiang, Siyuan (S.)
Subject: FW: Updated PTH Design Rule

Siyuan,
This is ready for review with Rick.
It has already been concurred to globally.
Thanks

Brent Hall
Air Metering Technical Specialist
bhall60@ford.com
Ford Motor Company
CELL PHONE NUMBER (313) 805-9223

From: Bos, Ed (E.A.)
Sent: Monday, September 28, 2009 4:03 PM
To: Hall, Brent (A.)
Cc: Chabon, Michael (W.); David, Tim (T.)
Subject: Updated PTH Design Rule

Updated per discussion last week.

<< File: ETB_Dxxx_PWB_Plated_Through_Holes.doc >>

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, June 15, 2010 10:16 AM
To: Bos, Ed (E.A.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.)
Subject: RE: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

Good stuff, Ed. This helps.
Thanks.

I agree on Cipsa vs. Via… hard to say better. But, the fair question is how do we know that this same defect or something similar isn't going to happen with Via.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bos, Ed (E.A.)
Sent: Tuesday, June 15, 2010 9:09 AM
To: Langley, Scott (C.S.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.)
Subject: RE: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

OK by me Scott.

What I am pointing out is that since Cipsa is "fixed", it is hard to say that Via is going to be better, which is what the question below seems to imply. I have been having a series of meetings with Delphi to review/improve the Via systems control plan. I am convinced that Via is aware of the failure modes (both systemic and special cause) and that they have a mature operation.

There is a hole we dug ourselves (no pun intended :-) with the CIPSA issue. With CIPSA we concluded resharpening drill bits is bad. BUT, everybody does it routinely and it is an accepted practice. The Delphi circuit board experts did not take any action to cease the practice at their preferred supplier. Leadjump and Via both resharpen bits, and will continue to do so unless we are willing to pay more for something they think does not solve anything.

Having said this, there are some holes we are plugging and also some improvements we are making.

We are pursuing a gaging strategy that samples enough parts (non-destructive) to show that the grand average for each lot is 5-sigma above the spec limit with confidence. This is something none of our circuit board suppliers have done to date.

We also note that the single die-circuit board does not have the same failure mode as the dual-die circuit board. There are two functional vias on the single die board, and if either of them fail, the sensor still puts out a valid output signal.

Tim Parkinson and I are working with Delphi on the control plans. I have recently asked them for a side-by-side comparison between Via and CIPSA, to help demonstrate that we have the right controls in place. I am expecting more info on this later this week. With this I am expecting a better answer to the confidence question.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Monday, June 14, 2010 11:04 PM
To: Bos, Ed (E.A.)
Cc: Chabon, Michael (W.)
Subject: RE: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

I think that's Tom jumping to that step. He may not remember the step of correcting it at CIPSA before going to Via Systems. But, it is still a fair question especially considering that's where we're going… to Via Systems.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Bos, Ed (E.A.)
Sent: Monday, June 14, 2010 2:32 PM
To: Langley, Scott (C.S.)
Cc: Chabon, Michael (W.)
Subject: RE: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

Scott,

Sure I will help out. Let's agree on the method first.

There are two issues in noted in the paynter chart. (1) Bubbles due to loss of power and the larger one (2) which was binned against poor processing methods.

One concern that I have is that corrective actions have been put into place at CIPSA, so an obvious question is why are we putting the issue to bed with via systems? Hasn't the issue been resolved at the cipsa level?

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
Cell: 313-805-8782
ebos@ford.com

From: Langley, Scott (C.S.)
Sent: Friday, June 11, 2010 1:31 PM
To: Bos, Ed (E.A.)
Cc: Chabon, Michael (W.)

Subject: RE: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

Ed, See below… Can you assist us to calculate this "Confidence Interval?" ;-)

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Boerger, Jim (J.G.)
Sent: Friday, June 11, 2010 9:27 AM
To: Chabon, Michael (W.); Langley, Scott (C.S.)
Subject: FW: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

Pls stop by to briefly discuss the ETB item - thanks, Jim

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Bushman, Thomas (T.S.)
Sent: Thursday, June 10, 2010 9:30 AM
To: Moore, Andrew (R.); Schiltges, Dave (D.); Boerger, Jim (J.G.); Chabon, Michael (W.); Langley, Scott (C.S.)
Cc: Sparks, Douglas (D.S.)
Subject: VCT Ranked 9th and ETB Ranked 12th in Overall U377 Powertrain

Andy / Dave --

VCT is currently ranked 9th in overall U377 Powertrain.

Are there any other actions we can take with B/W to close this one out?

Jim / Mike / Scott -

ETB is currently ranked 12th in Overall U377 Powertrain.

Our fingers are crossed that the new VIA Systems Mother Board will finally put this to bed - what is your confidence interval that the new supplier will close this one out?

<< File: U377_PT_ECB_Summary_(06-10-10).pdf >>

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Langley, Scott (C.S.)
Sent: Saturday, November 21, 2009 8:57 AM
To: Dixon, Mark (M.R.); Hsieh, Dean (D.C.)
Cc: Bushman, Thomas (T.S.); Durand, Gerardo (G.D.)
Subject: RE: VINs for CD/Escape ETC Concern

Mark,
Tom would have a better handle on that.
Some of the earliest failures were caught at KCAP, but I think they were all vehicle-related DTCs as opposed to EOL.

On this one, the issue wasn't so much one of having a more stringent test. It was more a matter of creating the conditions to bring the weak point of the PWB to failure. We were thermal-cycling sensors to try to "break" the thin spot in the plating, if present. If it was just thin/weak but hadn't started breaking, it would look like a normal ETB. Once it started to break, the P2135 detected it well… resistance increased, signals deviated from one another.

Perhaps a more stringent limit on a P2135 check would have helped. But again, the condition hadn't necessarily presented itself at EOL.
So, maybe we need EOL thermal chambers to thermal-cycle our vehicles! (Nevermind. We'll just fix the circuit board!)

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Dixon, Mark (M.R.)
Sent: Saturday, November 21, 2009 7:11 AM
To: Hsieh, Dean (D.C.); Langley, Scott (C.S.)
Cc: Bushman, Thomas (T.S.); Durand, Gerardo (G.D.)
Subject: VINs for CD/Escape ETC Concern

Dean, per discussion yesterday, attached are the claims for the 2010 Escape and CD "Electronic Throttle Control" concern I mentioned (top MIL concern for past 8 weeks of production). There was interest with one of the attendies at the meeting to follow up with the EOL record to see if any of these could have been caught in the plant.

Scott, this is the PWB issue on the Delphi contactless TB's. Do you know if any of these were caught at End of Line (including Delphi testing), and specifics on the PWB failure that allowed this to pass supplier and Ford EOL testing? We looking for opportunities to improve EOL testing to better detect supplier quality concerns like this.

<< File: 2010 ETC Claims CD Escape.xls >>

Mark Dixon
Powertrain Quality
Ford Motor Company
Building 2 / 24K36

mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Benson, Debra <debra.benson@delphi.com>
Sent: Friday, February 04, 2011 2:18 PM
To: Parkinson, Tim (T.M.); Langley, Scott (C.S.); Shapardanis, Michael (M.S.)
Cc: Sant, David W
Subject: RE: WEP&R for 9L8E TNI Warranty Returns
Attachments: Photos AR166027.xls

Tim/Mike/Scott,
Attached is an example of the part photos taken to capture the pre-test condition of each part.
Please let me know if you have questions or concerns or if you would like additional part files.
Thanks,
Deb

Photos AR166027.xls

Debra Benson
Sr. Product Engineer - Air Control Products
Delphi Corporation
Rochester, New York
(585)359-6775

-----Original Appointment-----
From: Benson, Debra
Sent: Friday, January 28, 2011 2:37 PM
To: Benson, Debra; Sant, David W; Garling, Kris; McKay, Troy; 'Parkinson, Tim (T.M.)'; Langley, Scott (C.S.); Shapardanis, Mike
Cc: Scott, Geoffrey J
Subject: WEP&R for 9L8E TNI Warranty Returns
When: Friday, February 04, 2011 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where: CRUSNYHEN, Staff Conf Room (conf line 800-399-3280, passcode 5853596775)

2/3 Update: Added action items from initial meetings, latest WEP&R file & web link.

This is a follow-up meeting to review the test plan for TNI warranty returns.

We have completed the action items identified during initial meetings held in October. I'd like to review them so we are all together on the status for each and are in agreement to proceed with the testing.

Action items from 10/18/2010 meeting:

1) Review the addition of the subjective test for end play and slack zone(do we already have it). If we do not want to remove the cover can we do a subjective measurement and record the results?
2) Document connector shark fin and ribs with a picture for each part.
3) Add tabs for each of the 3 new plant returns and the 2 control parts for pre test data in WEP&R
4) Get dither test data for control parts and add to the Ford Dither Test excel file
5) Check to make sure we have applied the lesson learned from the KSR DD on the 60mm PVP&R (update cycle center & crimp tool)
6) Check to make sure we capture stuck valve data if a code is not set
7) Decide if we should send a motor back to IG that is a 2111 & 2112 but did not go through the KLT

8) Review criteria for adding lubricant to the motor connector. Now that we are including P2111 and P2112 we may be masking an failure mechanism
9) The cells and tabs that are red need some follow up before they can go back to white.
10) Update the Fast KLT worksheet to document the temp/time profile used.
<< File: WEPR-Fast KLT Testing of P2135 P2111 P2112 Error Codes 30NO2010.xls >>
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~~~~~~
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~~~~~~

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+1 800 399 3280
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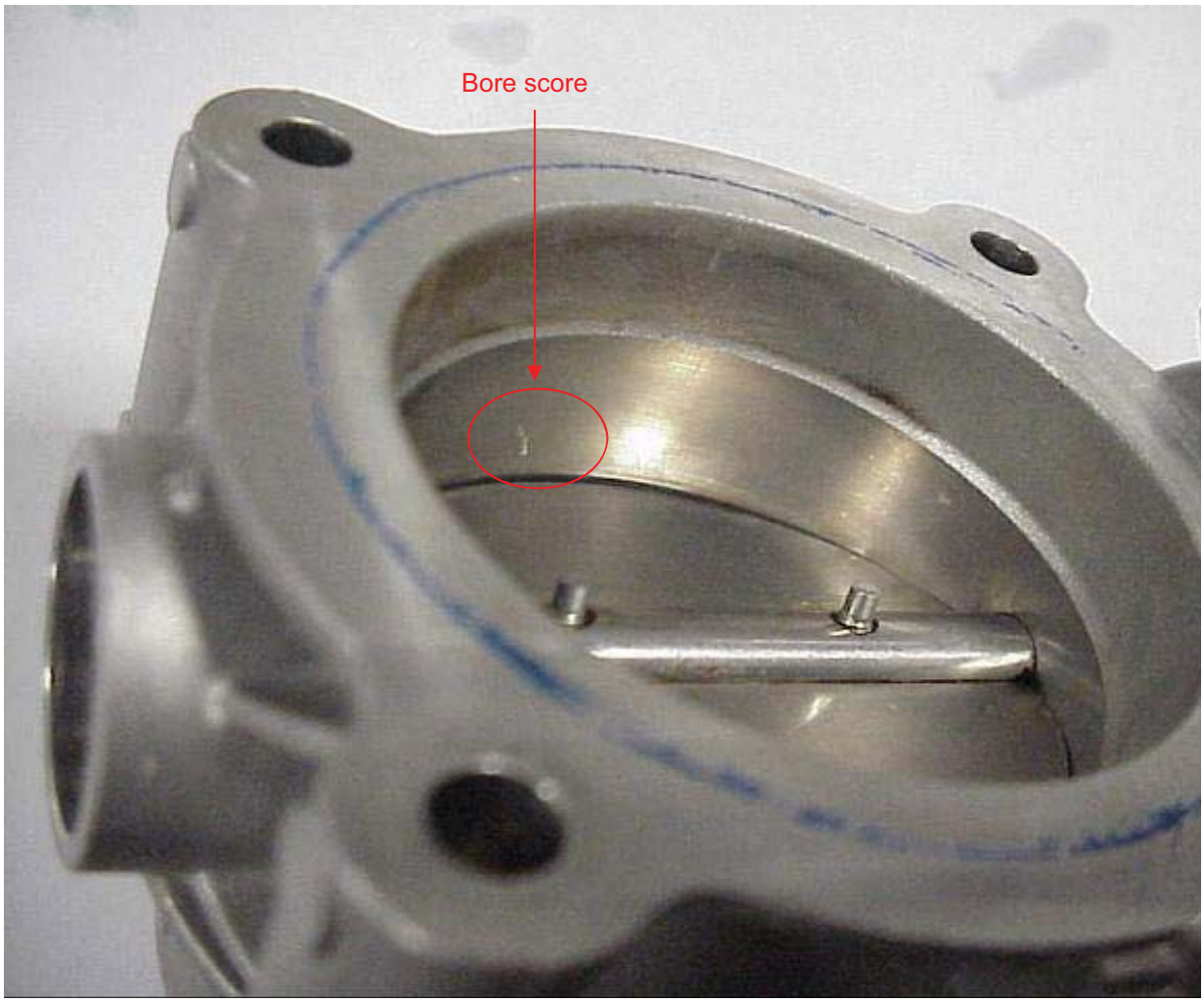
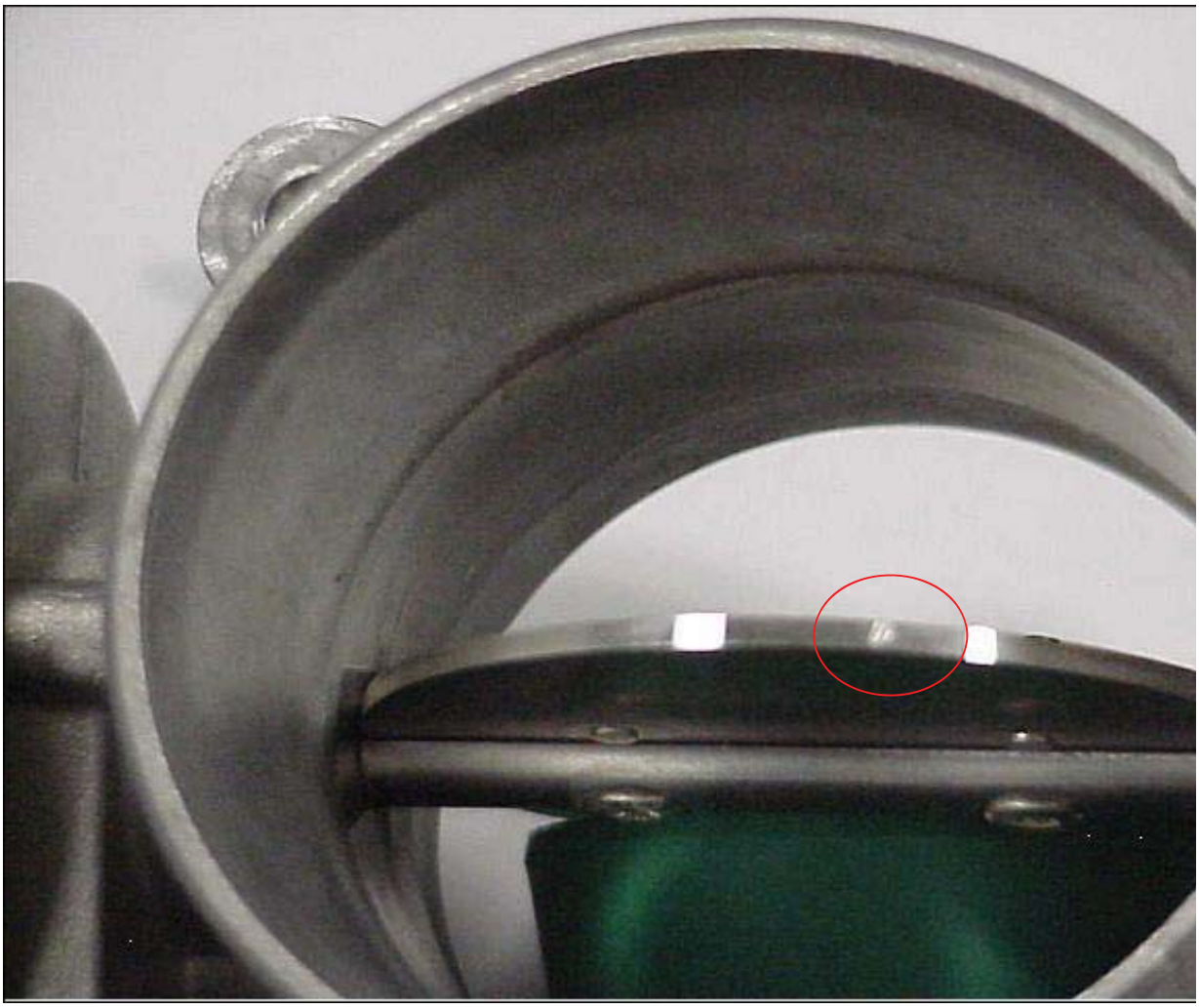
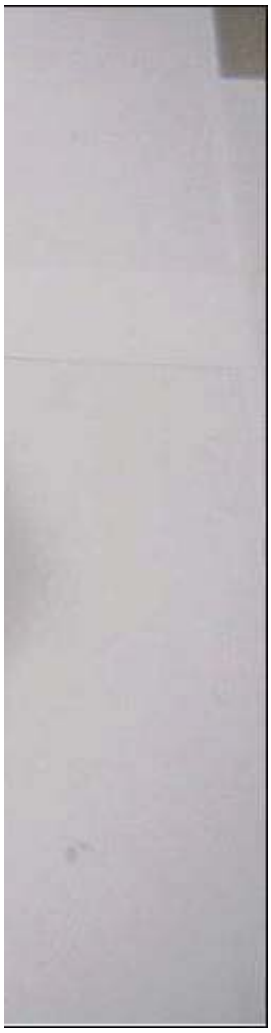

Bore score




AR166027




AR166027


G27N


AR166027

From: Osepchook, William (W.R.) <wosepcho@ford.com>
Sent: Monday, October 01, 2012 3:16 PM
To: Selthofer, Adam (A.); Harmon, Derek (D.M.)
Cc: Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

So the direction should be the following:

1. Using IDS datalogger or equivalent, check the PID value of ETC_TRIM.
2. With the vehicle in park or neutral and A/C off, start the vehicle and allow the engine to reach normal operating temperature which is greater than
77 °C (170 °F) coolant temperature.
3. While the engine is running, using IDS datalogger or equivalent, check the PID value of ETC_TRIM.
a. If ETC_TRIM value is 3.0 degrees or greater, proceed to Step 4.
4. Remove the throttle body. Refer to Workshop Manual (WSM), Section 303-04.

5. Using Motorcraft® Choke and Linkage Cleaner or equivalent, spray the throttle body plate and bore. Using a small, soft, solvent resistant brush, clean the edges of the throttle plate and the mating surface of the throttle bore to remove all engine deposit build up. Reapply choke and linkage cleaner.
NOTE: DO NOT SPRAY CLEANER DIRECTLY INTO THROTTLE PLATE PIVOT SHAFT.

6. Install the throttle body. Refer to WSM, Section 303-04.

From: Selthofer, Adam (A.)
Sent: Monday, October 01, 2012 2:37 PM
To: Osepchook, William (W.R.); Harmon, Derek (D.M.)
Cc: Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

From Langley: If it's cleaning that's needed, it would be evident in checking the ETCTRIM PID.

Maybe Derek can ask whatever fleet this is he's working with the check that prior to trying to clean the ETBs.

From: Osepchook, William (W.R.)
Sent: Monday, October 01, 2012 11:11 AM
To: Harmon, Derek (D.M.)

Cc: Selthofer, Adam (A.); Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

<< OLE Object: Minitab Graph >>

From: Osepchook, William (W.R.)
Sent: Monday, October 01, 2012 10:32 AM
To: Harmon, Derek (D.M.)
Cc: Selthofer, Adam (A.); Schiltges, Dave (D.)
Subject: RE: 2.5L/3.0L loss of RPM- No Codes

Higher mileage seems to be the common denominator. Claims increase as mileage increases.

Clean them?

<< OLE Object: Minitab Graph >>

<< OLE Object: Minitab Graph >>

From: Harmon, Derek (D.M.)
Sent: Monday, October 01, 2012 9:25 AM
To: Osepchook, William (W.R.)
Subject: 2.5L/3.0L loss of RPM

<< File: 2.5L-3.0L no DTC stall.xlsx >>

Derek M. Harmon
Ford Customer Service Division
Powertrain Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: Hwang, Sheng-Jiaw (S.J.) <shwang@ford.com>
Sent: Tuesday, October 02, 2012 10:53 AM
To: Harmon, Derek (D.M.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Bandoske, Pete (P.F.); Wagner, Glen (G.C.); Ricks, Kevin (K.J.); Meier, Kenneth (K.W.); Garant, Dan (DCG.); Watson, Joseph (J.W.); Langley, Scott (C.S.); Shapardanis, Michael (M.S.); Osepchook, William (W.R.)
Subject: RE: 2010-2012 Fusion/Escape no DTC loss of RPM

Derek

We are working on the investigation of those 83 claims (w/o DTC code issues):

(note from the preliminary data shows ~90% were high-mileage issues &

those build dates were spreading around 3Q2009-3Q2010.)

The 1st thing is to get the warranty parts back from fleet vehicles for the in vehicle testing to identify the root causes.

Bill Osepchook is working on the ETB tested on vehicle using IDS.

Secondly, we are analyzing those claims to sort out how many were related to ETB.

Mike Shapardanis is processing the data & Andrea Davis is working w/Delphi to check their warranty data for the similar issues.

I will keep you all posted. Let me know if you have any questions.

Regards,
Sheng-Jiaw (Joe) Hwang

PD Supervisor - Component C Current Quality
Global Engine Engineering
Phone: 313-806-3749

eMail: shwang@ford.com

From: Harmon, Derek (D.M.)
Sent: Wednesday, September 26, 2012 2:19 PM
To: Langley, Scott (C.S.); Hwang, Sheng-Jiaw (S.J.)
Cc: Chabon, Michael (W.); Davis, Andrae (A.L.); Parkinson, Tim (T.M.); Bandoske, Pete (P.F.); Wagner, Glen (G.C.); Ricks, Kevin (K.J.); Meier, Kenneth (K.W.); Garant, Dan (DCG.); Watson, Joseph (J.W.)
Subject: 2010-2012 Fusion/Escape no DTC loss of RPM

The intermittent no DTC loss or RPM problem is getting so much attention on the 10-12 Escape/Fusion I've now put this on the QSF emerging deck. We've gotten too many phone calls from dealership technicians needing help and fleet confidence concerns about this, it is time to monitor this closer and help our technician and customers. The attachment is a chat board between our dealership technicians.

Derek M. Harmon

Ford Customer Service Division

Powertrain Concern Engineer

Email: dharmon3@ford.com

313-317-4276

From: Langley, Scott (C.S.)
Sent: Thursday, December 09, 2010 11:57 PM
To: Quijada, Jorge (J.)
Subject: RE: ETB Form 4 Update Request

For 3.5l Fusion/MKZ, it's Continental.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Quijada, Jorge (J.)
Sent: Thursday, December 09, 2010 4:11 PM
To: Langley, Scott (C.S.)
Subject: RE: ETB Form 4 Update Request

Scott;
Who is the tier 1 suppller to Ford for the ETB?
Delphi?

Thanks

Jorge Quijada
CD3 PVT Supervisor POWERTRAIN
Office.- (662) 259 8314
Fax.- (662) 259 8310
Mobile.- 011 52 1 (662) 142-0198

From: Langley, Scott (C.S.)
Sent: Lunes, 22 de Noviembre de 2010 07:33 a.m.
To: Moizuk, Layne (L.E.); Pulizzi, Pietro (P.G.); Domek, James (J.J.); Galas, Dean (C.K.); Hearn, Mark (E.); Porter, Alan (A.J.); Quijada, Jorge (J.); Sarkisian, Mark (Z.); Miller, Brian (B.J.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Crudo, Frank (F.J.); Horbal, Colin (C.P.); Sparks, Douglas (D.S.)
Subject: RE: ETB Form 4 Update Request

Layne,
I've updated #2010144714 with info on ICA and PCA.
Please call me if there's something more specific you need from me.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality

& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Moizuk, Layne (L.E.)
Sent: Monday, November 22, 2010 6:47 AM
To: Pulizzi, Pietro (P.G.); Domek, James (J.J.); Galas, Dean (C.K.); Hearn, Mark (E.); Porter, Alan (A.J.); Quijada, Jorge (J.); Sarkisian, Mark (Z.); Miller, Brian (B.J.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Crudo, Frank (F.J.); Langley, Scott (C.S.); Horbal, Colin (C.P.); Sparks, Douglas (D.S.)
Subject: RE: ETB Form 4 Update Request

Agree with Sark that Core should re-bin. This is the first thing I have heard any feedback on the failures since the Stop Ship action. I do find it odd that the (3) Throttle Body failures for rfr in 2011 MY are all 4.6L engines.

BSAQ project #2010144714 still shows open for final PCA action. I've sent two requests to Core regarding this.

Layne Moizuk, **E-Series**
Powertrain PVT Resident Engineering Supervisor
Ohio Assembly Plant
Telephone: 440-933-1133
Fax: 440-933-1116
Text Page: 216-549-3179 or LMOIZUK
Cell Phone: **440-263-9859**

From: Pulizzi, Pietro (P.G.)
Sent: Friday, November 19, 2010 11:54 AM
To: Domek, James (J.J.); Galas, Dean (C.K.); Hearn, Mark (E.); Moizuk, Layne (L.E.); Porter, Alan (A.J.); Quijada, Jorge (J.); Sarkisian, Mark (Z.); Miller, Brian (B.J.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Crudo, Frank (F.J.); Langley, Scott (C.S.); Horbal, Colin (C.P.); Sparks, Douglas (D.S.)
Subject: FW: ETB Form 4 Update Request

Guys need your assistance to rebin some "Throttle Body Defective" claims post August MOP from BSAQ 2010144714 (ETB Def due to outgassing) to a new BSAQ 2010155330 for "Throttle Body TNI" project. The core engineering team reviewed all claims post August ICA date and 0 claims pertain to the outgassing concern. Its important this get accomplished promplty to support upcoming mgmt meetings (PDQR, AQM).

If there are other projects related to ETB that require modification, pls adjust those as well.. We want to accurately portray the gasket project and any other project tied to ETB. Thanks in advance.

From: Immonen, Mark (M.)
Sent: Friday, November 19, 2010 11:30 AM
To: Pulizzi, Pietro (P.G.); Langley, Scott (C.S.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Crudo, Frank (F.J.)
Subject: RE: ETB Form 4 Update Request

Per Scott's direction, I've revised the seal outgassing ICA (clean date) to 8/4/10 in project 2010144714. In addition, I've raised a new project 2010155330 for "Throttle Body Warranty Returns >/= 8/5/10; 7T4E & 8S4E". Concern description reads; "Throttle Body Warranty Returns for >/= 8/5/10 vehicle production dates. 7T4E; 3.5L/3.7L iVCT, 4.6L 2v Truck and 8S4E; RFR". Scott has been added to the team list (Leader). Currently, the only CCCs added are D50 & E29.

Scott, please access the project and add appropriate CCCs, assign a Champion, add other team members as needed and add Planned ICA & PCA descriptions and dates.

Pete, in follow-up to your comments below, please provide assistance for PVT Residents to:
1) Created a new category to bin ETB claims against.
2) Rebin existing and then bin new Throttle Body claims for the vehicle lines below to that singular, new category for vehicle production dates >/= 8/5/10.
3) Link BSAQ project 2010155330 to the new category for each vehicle line.
DE FUSION
Redacted for relevance

From: Pulizzi, Pietro (P.G.)
Sent: Friday, November 19, 2010 10:49 AM
To: Langley, Scott (C.S.); Immonen, Mark (M.)
Cc: Pulizzi, Pietro (P.G.)
Subject: RE: ETB Form 4 Update Request

Form 4 with impacted vehicle lines has been uploaded to site below. You can clearly see the Fusion/Milan and RFR products are causing the Red Leakage after the Aug 23…

From: Pulizzi, Pietro (P.G.)
Sent: Friday, November 19, 2010 9:41 AM
To: Langley, Scott (C.S.); Immonen, Mark (M.)
Cc: Horbal, Colin (C.P.)
Subject: RE: ETB Form 4 Update Request

Form 4 info has been loaded to share point site below:
https://dept.sp.ford.com/sites/ptcurrentmodelquality/112910ptpdqr/Shared%20Documents/Forms/AllItems.aspx

One more Form 4 is running for the specific vehicle lines we discussed. That will be uploaded soon.

Next Steps:
Immediate

- Create a new project for TNIs
- Rebin Claims post August ICA claims linked to the outgassing project to the new project..This step will eliminate the red leakage.
  - If you need help with the rebinning, pls advise. Identify the vehicle lines that need to rebin to the new project and I can work with the PVT residents.

Next week:

- Later (next week) - Clean up any random projects that reference the outgassing…ideally, it should be one.

From: Pulizzi, Pietro (P.G.)
Sent: Thursday, November 18, 2010 7:42 AM
To: Pulizzi, Pietro (P.G.); Langley, Scott (C.S.); Immonen, Mark (M.); Soper, Todd (R.); Wilson, David (D.G.); Peralta, José Luis (J.L.)
Cc: Male, Michael (M.J.)
Subject: ETB Form 4 Update Request
When: Friday, November 19, 2010 8:00 AM-8:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: WebEx / Audio : 70090823

Purpose is to provide clarification on email sent earlier this week on the ETB warranty.
Background: Form 4 reflects Red Leakage on the ETB, indicating actions implemented were not 100% effective or a new/unknown failure mode exists.

Info from Colin Horbal Below:

Pete - Pls call a quick meeting today to get this resolved (I think some of the guys may be confused about exactly what is being requested).
Scott - I know you are crashing o the 6.2L…the only things we need from you can be completed by responding to the 3 items below

1) Agreement that what we are currently doing in production should be called an ICA (you verbally confirmed this to me earlier this week, just need the others to see you say it)

2) Confirmation that the planned PCA is a new gasket material and the intended production break (in vehicle) is Jan 17, 2011

* Based on what you told me earlier this week, I would suggest you move the date to 2/14/11, just to be safe

3) Confirmation that, to date, you have not experienced an out-gassing issue on any product built after the clean date (you verbally confirmed this to me earlier this week,

just need the others to see you say it). This will drive the team to add the 'new critical x' that Pete referred to below

Dave - Got your message. I think we should be able to get what is needed doen this week as Pete requested.

Tks!

Colin Horbal
PT Quality Manager
Americas PD Quality
Phone: 313-845-7581
Cell Phone: 313-805-5734
Text: chorbal

-+-----+-----+-----+-----+-----+-----+-----+-----+-

[Do not add or change anything below this line. The information in this section may be replaced with your meeting details after you click Send.]

You scheduled this meeting.

Meeting Number: 717 739 467
Meeting Password: This meeting does not require a password.

To start this meeting

---

1. Go to https://ford.webex.com/ford/j.php?S=717739467
2. Log in to your account, if prompted.
3. Click "Start Now".
4. Follow the instructions that appear on your screen to join the teleconference.

!!! Note: It is the responsibility of the meeting host to know who is attending their meeting on both audio and web conferencing and to make sure the attendees are authorized to see and hear the content of the meeting.

Teleconference information

None

Wilson, Marie (M.)

From: Langley, Scott (C.S.)
Sent: Thursday, May 27, 2010 4:31 PM
To: Wilson, Marie (M.); Prescott, Alan (A.D.)
Cc: Boerger, Jim (J.G.); Christensen, Kris (K.S.); Bazil, Tom (Thomas E.); Patel, Bharat (B.J.)
Subject: FW: Preliminary Defect Report Review/Concurrence: 09EPRC17/10-3D

Attachments: Document.pdf

Marie,
I concur with this defect report as written. No comments.

Thanks.
Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Wilson, Marie (M.)
Sent: Monday, May 24, 2010 2:50 PM
To: Prescott, Alan (A.D.); Langley, Scott (C.S.); Boerger, Jim (J.G.)
Cc: Christensen, Kris (K.S.); Bazil, Tom (Thomas E.); Patel, Bharat (B.J.)
Subject: Preliminary Defect Report Review/Concurrence: 09EPRC17/10-3D

Please see attachment.

Concern: Some 2009 and 2010 model year Ford Escape, Mercury Mariner, Mazda Tribute and 2010 Ford Fusion, Mercury Milan vehicle may experience open circuit condition within the throttle position sensor.

Comments/Concurrence due by: June 1, 2010

Comments/Concurrence per email to: Marie Wilson - MWILSO18 - 313-248-2404

Document.pdf (783 KB)

Marie Wilson
Ford Motor Company
Vehicle Environmental Engineering
Environment, Energy Planning & Compliance
Phone: 313-248-2404 Fax: 313-594-0338
MWILSO18@FORD.COM

Wilson, Marie (M.)

From: Boerger, Jim (J.G.)
Sent: Wednesday, June 02, 2010 7:39 AM
To: Wilson, Marie (M.); Prescott, Alan (A.D.); Langley, Scott (C.S.)
Cc: Christensen, Kris (K.S.); Bazil, Tom (Thomas E.); Patel, Bharat (B.J.)
Subject: RE: Preliminary Defect Report Review/Concurrence: 09EPRC17/10-3D

I concur, Jim

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
E-mail jboerger@ford.com - Tel: (313) 805 8536
ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Wilson, Marie (M.)
Sent: Monday, May 24, 2010 2:50 PM
To: Prescott, Alan (A.D.); Langley, Scott (C.S.); Boerger, Jim (J.G.)
Cc: Christensen, Kris (K.S.); Bazil, Tom (Thomas E.); Patel, Bharat (B.J.)
Subject: Preliminary Defect Report Review/Concurrence: 09EPRC17/10-3D

Please see attachment.

Concern: Some 2009 and 2010 model year Ford Escape, Mercury Mariner, Mazda Tribute and 2010 Ford Fusion, Mercury Milan vehicle may experience open circuit condition within the throttle position sensor.

Comments/Concurrence due by: June 1, 2010

Comments/Concurrence per email to: Marie Wilson - MWILSO18 - 313-248-2404

<< File: Document.pdf >>

Marie Wilson
Ford Motor Company
Vehicle Environmental Engineering
Environment, Energy Planning & Compliance
Phone: 313-248-2404 Fax: 313-594-0338
MWILSO18@FORD.COM

From: Zilinskas, Steve (S.E.) <szilinsk@ford.com>
Sent: Tuesday, November 27, 2012 10:56 AM
To: Harmon, Derek (D.M.)
Cc: Wagner, Glen (G.C.); Ferdubinski, Ron (R.D.); Bonnema, Grant (G.B.)
Subject: RE: QSF Courtesy Notification (2010-2012 Fusion/Escape loss of RPM)

Derek,

I would like to avoid directing the tech's to pull and attempt to decipher ETC engineering data. When the tech sees all of this data, any good tech will want to understand what it is and how he can use it. When we decline to provide details, it gives the techs the impression that we are hiding valuable information from them. This data cannot be used for normal diagnostics since it is outside of the module's normal diagnostic strategy and can show information that may not correlate to the normal setting and aging process of DTCs. Ford currently has diagnostic support built around DTCs, Freeze Frame, Snap Shot Data, PIDs, and OSC of PIDs, all of which are industry standards and supported within PCED and WSM. I do not believe having the tech pull raw engineering data and creating alternate diagnostic paths is a good approach for the company or the field. If there is diagnostic information that is lacking or missing, we need to drive getting
this properly supported as normal DTCs, PIDs, or Snap Shot data.

I do however understand that we have current field issues that are lacking the proper on-board diagnostics. I have a couple of other ideas or potential solutions that could give the tech access to this data without using the ETC engineering tool that I would like to explore.

In the last meeting I attended, you guys were going to pull 25 examples of ETC freeze frame data so we could convince ourselves that the parameter that we are considering using within the ETC freeze frame data is a valid indicator if there is a TB issue. I would like to confirm that if the value is not set in the ETC data and we tell the tech to NOT to replace that TB, that we can find that an alternate problem is causing the stalling issue and confirm that the customer does not return. If this is not the case, option
#2 may be the best approach.

I see that Glen is out this week so I will schedule a meeting next week for a few of us to discuss.

From: Harmon, Derek (D.M.)
Sent: Tuesday, November 27, 2012 8:58 AM
To: Zilinskas, Steve (S.E.)
Subject: FW: QSF Courtesy Notification (2010-2012 Fusion/Escape loss of RPM)

Steve, we opened the QSF on this problem. We had a meeting last week to discuss our options for closure.

1. Write a TSB showing the tech exactly how to decipher freeze frame data with pictures explaining. If data shows exactly what we see with an ETB related stall and no DTC the service procedure will be - Replace ETC

2. Write a TSB stating "Intermittent loss of RPM and Wrench light with our without DTC P2111/P2112" TSB procedure - Replace ETC

Option 1 we feel is the best to fix the vehicle properly, option 2 obviously will cause some repeat repairs and possibly increase warranty spend.

Let me know if you agree with option 1.

Derek M. Harmon

Ford Customer Service Division

Powertrain Concern Engineer

Email: dharmon3@ford.com

313-317-4276

From: CQIS, Help (.)
Sent: Tuesday, November 27, 2012 7:00 AM
To: Wagner, Glen (G.C.); Bandoske, Pete (P.F.); Allen, Michael (M.C.); Norton, John (J.K.); Harmon, Derek (D.M.); Renwick, Rick (R.J.); Hwang, Sheng-Jiaw (S.J.)
Subject: QSF Courtesy Notification

_____

Purpose of Communication: QSF Courtesy Notification - Concern:10420120025

Team:

_____

FCSD Service Engineering Mgr: Pete Bandoske
FCSD Program Manager: Glen Wagner
FCSD Product Concern Engineer: Derek Harmon
Functional Champion: RRENWICK -No GCQIS Access
Engineering Contact: SHWANG -No GCQIS Access

Concern Detail

_____

Vehicle Line/Commodity:

Derivative/Model Year:

GAS ENGINE

2009-2012

Concern Description:

Customer Symptom:

10-12 Escape/Fusion no DTC stall

intermittent difficult to duplicate no DTC stall

Service Deadline(68 Days):

Production Deadline(90 Days):

2/2/2013

2/24/2013

Affected Region(s):

FNA,E&G

Screening Criteria:

Severity Indicator:

VIN Count/Open Threshold:

C-Cannot be fixed without Company support

3-Owner Confidence

60/50

Concern Comments:

_____

Concern: intermittent difficult to duplicate no DTC stall
Cause: under investigation
Service Correction: under investigation
Production Correction: N/A. Out of production vehicles
Status: Nov/14: Next scheduled meeting to discuss diagnostics 11/20. QSF scheduled to open 11/21.

Click here to view Concern Graph

<http://dsc0ap05.diagnostic.ford.com/sp/aeqv2/graphLoader.asp?lev=1&c=10420120025>

From: Harmon, Derek (D.M.)
Sent: Wednesday, March 20, 2013 1:55 PM
To: McDonagh, Scot (S.M.); Wagner, Glen (G.C.); Zilinskas, Steve (S.E.)
Cc: Dixon, Mark (M.R.); Hwang, Sheng-Jiaw (S.J.)
Subject: RE: QSF Service Closure

Yes. Our current plan is to close the QSF with an SSM informing technicians how to use the new IDS tool. IDS tool scheduled to be public 4/3.

Derek M. Harmon
Ford Customer Service Division
EESE Concern Engineer
Email: dharmon3@ford.com
313-317-4276

From: McDonagh, Scot (S.M.)
Sent: Wednesday, March 20, 2013 1:48 PM
To: Wagner, Glen (G.C.); Harmon, Derek (D.M.); Zilinskas, Steve (S.E.)
Cc: Dixon, Mark (M.R.); Hwang, Sheng-Jiaw (S.J.)
Subject: RE: QSF Service Closure

Are we on track for 4/3/ QSF closure ?

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Wagner, Glen (G.C.)
Sent: Tuesday, February 12, 2013 9:47 AM
To: McDonagh, Scot (S.M.); Harmon, Derek (D.M.); Zilinskas, Steve (S.E.)
Cc: Sparks, Douglas (D.S.); Ricks, Kevin (K.J.)
Subject: RE: QSF Service Closure

The April 3 timing is a stretch objective, note that the IDS tool activity is engineering, testing, and releasing an all new diagnostic tool for the IDS hardware. We could have closed the QSF with a TSB however PD & FCSD agreed that this higher quality solution justified the extended QSF timing.

Glen Wagner
FCSD Commodity Program Manager, Fuel / Exhaust / Air Induction / Cooling / Controls / Calibration / Gas Engine
Phone 313 32-26768

From: McDonagh, Scot (S.M.)
Sent: Tuesday, February 12, 2013 7:53 AM
To: Harmon, Derek (D.M.); Zilinskas, Steve (S.E.); Wagner, Glen (G.C.)
Cc: Sparks, Douglas (D.S.); Ricks, Kevin (K.J.)
Subject: QSF Service Closure
Importance: High

PT Executive Management is asking if there is any opportunity to pull ahead IDS tool release for QSF Service closure ?

2009-2012MY CD3/U377 RPM drop with No DTCs: Delphi implemented ETB Motor run in test on 7/18/12. TSB release for QSF service closure delayed due to IDS Tool release needed for Diagnostics. **Required 68/90- 2-2/NA. Production- N/A Service- 4/3/13 Yellow Status**

Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date
GAS ENGINE	2009-2012	10420120025-Escape/Fusion No DTC w/ Drop in RPM	POW	RRENWICK - SHWANG - DHARMON3	**CC:** intermittent difficult to duplicate no DTC drop in RPM **CA:** throttle body **SC:** replace throttle body **PC:**N/A. Out of production vehicles **ST:** Jan/24th: Developing IDS tool for TSB.	26/Nov/2012	2/Feb/2013

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Boerger, Jim (J.G.)
Sent: Friday, March 29, 2013 7:44 AM
To: Harmon, Derek (D.M.)
Subject: RE: SSM (US) Courtesy Copy: 087-2013-1417: Loss Of Engine RPMs - Lack Of Acceleration - Wrench Light Illuminated With Or Without Diagnostic Trouble Codes (DTCs) P2111 And/or P2112

Derek … can we discuss on Monday before this is published? Thanks, Jim

---

From: Harmon, Derek (D.M.)
Sent: Thursday, March 28, 2013 9:33 AM
To: Garant, Dan (DCG.); Harmon, Derek (D.M.); Sparks, Douglas (D.S.); Saylor, Eric (E.L.); Wagner, Glen (G.C.); Boerger, Jim (J.G.); Kahn, Jason (J.); Watson, Joseph (J.W.); Pulay, Kirk (K.); Shapardanis, Michael (M.S.); Abercrombie, Robert (R.); Hwang, Sheng-Jiaw (S.J.); O'Connor, Tammy (T.A.)
Subject: SSM (US) Courtesy Copy: 087-2013-1417: Loss Of Engine RPMs - Lack Of Acceleration - Wrench Light Illuminated With Or Without Diagnostic Trouble Codes (DTCs) P2111 And/or P2112

SSM (US) Courtesy Copy

***** NOTE: The system generated the email. Do not reply to this email *****
***** To be removed from this distribution list, please email Robert Klump at rklump@ford.com *****

This message is being sent on behalf of DHARMON3.
This is a courtesy copy of the following article to advise you this article is currently being processed for publication.

General Information

Last action taken (as of 3/28/2013 1:32:49 PM GMT):	Submit for approval
Comment:	IDS 84 will be public 4/3/13 and contains the ETB tool. This will effectively close the QSF.
Author:	DHARMON3
Tracking Number:	087-2013-1417
Global Concern Number:	104-2012-0025
Title:	Loss Of Engine RPMs - Lack Of Acceleration - Wrench Light Illuminated With Or Without Diagnostic Trouble Codes (DTCs) P2111 And/or P2112
Article Type:	SSM (US)

SSM Text:
Some 2009-2012 Escape, 2009-2011 Mariner, 2010-2012 Fusion and 2010-2011 Milan vehicles equipped with the 2.5L DOHC or 3.0L engine may exhibit an intermittent loss of engine RPMs or lack of acceleration with illuminated Wrench Light. DTCs P2111 and/or P2112 may or may not be stored in the powertrain control module (PCM). To aid in diagnosing these concerns, the Integrated Diagnostic Scan (IDS) tool has been updated to include an Electronic Throttle Body diagnostic tool. This can be found using IDS version 84 or higher, selecting Powertrain, Service Functions, and ETB Check.

Category:	48 months
Request Type:	QSF
Activity Code:	Powertrain Engine

Vehicle Applications:

Vehicle Lines	Model Year Start	Model Year End	Assembly Plants	Body Styles	Engine	Trans Axles	Build From	Build To

Escape	2009	2012			2.5L DOHC			
Escape	2009	2012			3.0L V6			
Mariner	2009	2011			2.5L DOHC			
Mariner	2009	2011			3.0L V6			
Fusion	2010	2012			2.5L DOHC			
Fusion	2010	2012			3.0L 4V FLEX FUEL			
Milan	2010	2011			2.5L DOHC			
Milan	2010	2011			3.0L 4V FLEX FUEL			

If SPECS Case, Select all Other Affected Publications:
Changes Needed in Other Pubs:
TSBs to Supersede:
SSMs to Supersede:
ISMs to Supersede:
Other application Articles:
Select the reason for republication:
Procedure verified by CDSID: dharmon3
Describe How The Procedure Was Verified: IDS tested by myself and correctly identifies and resolves this concern.

Trustmarks affected: Ford, Mercury
Additional Trustmarks To Notify:
Article Distribution: Canada, Mexico, U.S.A., Argentina, Brazil, Colombia, Ecuador, French Guiana, Venezuela, Australia, Botswana, China, India, Indonesia, Japan, Lesotho, Namibia, New Zealand, Philippine Republi, South Africa, Swaziland, Taiwan, Thailand, Vietnam, Anguilla, Antigua & Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, Cayman Islands, Costa Rica, Cuba, Dominica, Dominican Republic, El Salvador, Grenada, Guatemala, Haiti, Honduras, Jamaica, Martinique, Montserrat, Netherland Antilles, Nicaragua, Rept. of Panama, Saint Kitts & Nevis, Saint Lucia, St Vincent & Grenadines, Trinidad & Tobago, Turks & Caicos ISL, Virgin Islands (BRIT), Afghanistan, Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Pakistan, Palestine, Qatar, Saudi Arabia, Syrian Arab Republic, United Arab Emirates, Yemen, Puerto Rico, Virgin Islands (US), Algeria, Angola, Benin, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African, Chad, Cocos (Kee! ling) ISL, Comoros, Congo, Cotes D' Ivoire, Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea Bissau, Kenya, Liberia, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mayotte, Morocco, Mozambique, Niger, Nigeria, Reunion, Rwanda, Sao Tome & Principe, Senegal, Seychelles, Sierra Leone, Somalia, St Helena, Sudan, Tanzania, Togo, Tunisia, Uganda, Zaire, Zambia, Zimbabwe, American Samoa, Bangladesh, Bhutan, Brunei, Cambodia, Christmas Islands, Cook Islands, East Timor, Fiji, French Polynesia, Guam, Hong Kong, Kiribati, Korea, Laos, Macau, Maldives, Marshall Islands, Micronesia, Mongolia, Myanmar, Nauru, New Caledonia, N Mariana Islands, Palau, Papua New Guinea, Pitcairn, Singapore, Solomon Islands, Sri Lanka, Tokelau, Tonga, Tuvalu, Vanuatu, Wallis & Futuna ISL, Western Samoa, Guadeloupe, Iceland, Niue,

Bolivia, Chile, Paraguay, Peru, Urguay, ANTARCTICA, BOUVET ISLAND, BRITISH IND OCN TR, CONGO, FRENCH METROPOLITA, FRENCH SOUTH TE! RR, GUYANA, HEARD & MCDONALDS, KOREA (NORTH), MALAYSIA, NEPAL, NORFOLK ISLAND, PALESTINE, S.GEORGIA/SW ISLAN, ST. PIERRE & MIQUE, SURINAM, US MISC PACIFIC, WESTERN SAHARA

DTC Codes and OASIS Service Codes: P2111, P2112, 600000, 606000, 607000, 608000, 614000, 698298

Global Customer Symptom Codes:

Category	Q1	Q2	Q3	Full Code
Driving Performance	Stalls/Quits	At Idle	Intermittent	552139

Causal Basic Part # or Finis Code:

Calibrations List:

White Paper Numbers:

Parts Request Information

Are Parts Required? No

Article Number:
BCM Number:

(End automated email)

From: Langley, Scott (C.S.)
Sent: Monday, August 02, 2010 11:45 AM
To: Van Nortwick, Kelvin (K.L.)
Subject: RE: Stop Ship # 2603 - Taurus/MKS/Fusion Sport/MKZ/Flex/MKT/E-Series/F150/Transit Connect/Focus - ETB Suspect Concern

This defect probably explains some of the issues we were seeing when 2583 was implemented.
But, this is a new defect vs. what was believed to be the issue for 2583…. That one was targeted at the gears. Those were still a concern.
This one is outgassing from Si seal causing deposits on the motor commutator. Symptoms in the vehicle would look the same for this issue as the gear issue.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Van Nortwick, Kelvin (K.L.)
Sent: Monday, August 02, 2010 10:20 AM
To: Langley, Scott (C.S.)
Subject: FW: Stop Ship # 2603 - rfr /Fusion Sport/ Redacted for relevance - ETB Suspect Concern
Importance: High

Scott

This is the same part - is this a totally new defect?

From: Dan, Thomas (G.)
Sent: Monday, August 02, 2010 10:13 AM
To: Van Nortwick, Kelvin (K.L.); Wylie, Dan (D.P.)
Subject: FW: Stop Ship # 2603 - RFR /Fusion Sport/ Redacted for relevance - ETB Suspect Concern
Importance: High

Thomas Dan
NA Service STA Manager
Part Supply and Logistics Quality Office - FCSD
313 390 3164 Tdan1@Ford.com
Results will change when the process improves.

Process improves when the work culture promotes teamwork and continuous improvement.

From: Cantrell, David (D.D.)
Sent: Friday, July 30, 2010 7:23 PM
To: Kuehn, Eric (E.N.); Lehmkuhl, David (D.B.); Stevens, Robert (R.W.); Borges, Roger (R.); Moizuk, Layne (L.E.); Guillen, Felix (F.); Shanahan, J D (J D.); Chacon, Luis (L.); Galindo, Sergio (S.N.); Ramirez, Mauricio (M.R.); Galas, Dean (C.K.); Collins, Keith (K.O.); Nicholson, Jeff (J.J.); Renwick, Rick (R.J.); Boerger, Jim (J.G.); Langley, Scott (C.S.); Shapardanis, Michael (M.S.); Wilson, David (D.G.); Horbal, Colin (C.P.); Madej, Jeanette (J.); Fascetti, Robert (R.J.); Wright, Robin (R.A.); Gryglak, Adam (A.J.); Sparks, Douglas (D.S.); Farley, Tonja (T.L.); Price, Adrian (A D.); Heistan, Sonja (S.S.); Shelton, Chris (C.E.); Russo, William (W.P.); McClure, Joe (J.H.); McGuire, David (D.T.); Habermehl, Chris (C.P.); Stalder, Terence (T.G.); Groeneveld, Arie (A.); Belanger, Grant (G.E.); Bell, Tim (.); Borges, Roger (R.); Brown, Dennis (D.C.); Brown, Jerry (J.R.); Brown, Tony (Thomas K.); Buczkowski, Jim (J.A.); Byndas, Brian (B.B.); Calhoun, Philip (P.T.); Calton, Kelly (K.J.); Cash, Linda (L.G.); Celentino, Michael (M.F.); Channell, Scott (S.G.); Collins, Keith (K.O.); Contreras, Alba (M.); D'Amour, Michele (M.); Dan, Thomas (G.); Davis, Frank (F.V.); Davis-Smith, Kenyatta (K.T.); Deen, Dennis (D.L.); Delannoy, Enrique (E.); DeMarco, Joe (J.J.); Demers, Barry (B.P.); DiMarco, Jackie Marshal (J.M.); Duffey, Debbie (D.A.); Dunn, Steven (Steven D.); Ellison, Pandora (P.M.); English, Michelle (M.L.); Fagerman, Todd (T.M.); Fascetti, Robert (R.J.); Ferguson, Hugh (H.); Flack, Thomas (T.C.); Fowler, Bennie (B.W.); Frischmuth, Florian (F.); Gaecke, Pete (P.A.); Gagnier, Scott (S.W.); Galindo, Sergio (S.N.); Gniewek, Kenneth (K.J.); Grandstaff, Brian (B.D.); Green, Ann (A.D.); Hand, James (J.E.); Harrison, Kent (K.E.); Heiser, Glen (G.A.); Heiser, Ron (R.D.); Henker, Scott (S.); Hettle, Bruce (B.W.); Hovland, Brooke (B.); Huff, Bradford (B.D.); Ickes, Bill (B.K.); Islas, Jose (J.J.); Jennings, Jonathan (A.); Jett, Pete (P.P.); Johnson, Gary (G.A.); Johnston, Dennis (D.T.); Jowiski, Dan (D.J.); Keinath, Wayne (W.); Khan, Mohammod (T.); Kinnie, Brian (BWK.); Kirschke, Kevin (K.E.); Konet, Courtenay (C.E.); Krawiec, David (J.D.); Krochmalny, Kevin (K.); Kueber, Paul (P.C.); Kuzak, Derrick (D.M.); Kwasniewicz, Chris (C.L.); Lee, David (D.A.); Lee, Joseph (J.J.); Lehmkuhl, David (D.B.); Leone, Sue (M.); Lewis, Natasha (N.L.); Lowe, Walter (W.E.); Macfarlane, Ken (K.); Mann, Mickey (N.S.); Marentic, Amy (A.L.); 'Martin Green, Vicky (V.L.)'; Martin, Kenneth (K.A.); Mascarenas, Paul (P.A.); Mayer, Thomas (T.A.); McGinnis, Martin (M.A.); Miettinen, Kevin (K.J.); Myers, Matthew (M.D.); Nissen, Todd (T.); Opaleski, Ed (E.J.); Opaleski, Steven (S.J.); Osaer, Mark (M.M.); Oswalt, Greg (G.G.); Patel, Bharat (B.J.); Perkins, John (J.E.); Piccirilli, Claudio (.); Polman, James (J.J.); Powers, Ken (K.W.); Rajan, Ranga (H.); Reitz, Graydon (G.A.); Reyes, Pete (P.D.); Roth, John (J.C.); Russo, William (W.P.); Rutovic, Nick (N.); Sabaitis, Robert (R.R.); Samardzich, Barb (B.J.); Samardzich, Raul (R.J.); Seeland, Gary (G.D.); Smith, Kim (K.E.); Sovoda, Richard (R.P.); Spencer, Jeff (.); Stec, Pamela (P.); Sterling, Timothy (T.J.); Storves, Bill (W.K.); Stroud, Nathan (JNS.); Taylor, James (J.D.); Tetreault, James (J.P.); Thornton, George (G.A.); Tobin, Scott (S.B.); Torolski, Michael (M.A.); Tracy, Steven (S.A.); Turner, Steve (S.F.); VanSlambrouck, James (J.M.); Vatalaro, Kurt (K.V.); Velliky, David (D.A.); Vido, Adrian (A.J.); Visintainer, Randal (R.H.); Vorpagel, Gayle (G.I.); Walczak, Daniel (D.J.); Watkins, Brad (B.J.); Werthman, Alyssa (A.A.); White-johnson, Patrice (P.); Wickenheiser, Francis (F.J.); Widmann, Carl (C.A.); Williams, Ken (K.); Winegarden, Marsha (M.E.); Wood, Jeffery (J.C.); Wyatt, Kimberly (K.D.); Biskelonis, Brian (B.A.); Capareli, Jose (J.C.); Gryglak, Adam (A.J.); Horbal, Colin (C.P.); Johnson, Greg (G.T.); Johnson, Risa (R.A.); Kainz, Laura (L.L.); Lorrain, Marc (M.A.); Madej, Jeanette (J.); Sparks, Douglas (D.S.); Trahey, Deborah (D.L.); Allman, Jan (J.E.); Brooks, Jeffrey (J.R.); Dodson, Anthony (A.D.); Gates, Kathleen (K.M.); Hernandez, Thomas (T.); Inglis, Steve (S.D.); Mannebach, John (J.); McKernan, Patrick (P.J.); Moskwa, Larry (L.M.); Newcomb, Sandra (S.); Simkus, Walter (W.A.); Van Dyne, Jill (J.E.); Williams, Erik (E.C.); Williams, Gregory (G.M.); Anderson, Eric (H.); Berzeri, Marcello (M.); Boguslawski, Robin (R.E.); Brasher, Ron (R.G.); Buelow, Steve (S.E.); Bustamante, Chris (C.T.); Cassata, Joe (J.); Docimo, Tony (A.F.); Dunklin, Ngina (N.); Edwards, Monty (M.R.); Feder, Andrew (A.); Gerrard, Ryan (R.P.); Iannotti, Jason (JRI.); Ickes, Walter (W.); Imperati, Daniel (D.); Issa, Ibrahim (I.M.); Kroll, Susan (S.E.); Logli, Michael (M.A.); Mehta, Jayesh (J.C.); Olsson, Paul (P.C.); Pesch, Vincent (V.J.); Porter, Alan (A.T.); Rapiz, Noreen (N.G.); Richardson, Brian (B.D.); Sarkisian, Mark (Z.); Siddiqui, Saif (S.S.); Sluis, Jim (J.); Sridhara, Raghu (R.); Trygar, Mike (M.); Vargo, Rebecca (R.L.); Widrick, Brad (B.A.); Young, Richard (R.C.); Acuna, Aaron (A.A.); Anderson, Brad (B.); Bachner, George (G.P.); Bailey, Damon (D.A.); Barnes, Karl (K.B.); Bell, Kimberly (K.M.); Berge, Chris (C.J.); Bisaga, Richard (R.); Boykins, Michael (M.); Bystrom, Erik (E.J.); Carter, Tracy (T.); 'Chen, Willis (W.)'; Ciotti, Steven (S.R.); Cortese, Debbie (D.A.); Davis, Charlene (C.); Delbovo, Bruce (B.); Devine, Robert (R.M.); Ebbing, David (D.G.); Evans, Frank (F.K.); Gibson, Renelda (R.); Harris, Kenny (R.); Heidrich, Janice (J.); Herron, Micheal (M.C.); Holland, James (J.P.); Iqbal, Khurram (K.); Kohut, Greg (G.A.); Krantz, Walter (W.A.); Kucinski, Brian (B.); Lacy, Dan (D.); Lakomek, Scott (S.); Lanthier, Michael (M.J.); Lesina, John (J.M.); Matlock, Douglas (D.); McElroy, Darin (D.L.); Miller, Melinda (M.S.); Moore, Chikynda (D.); Ornelas, Demetrio (D.); Patel, Bimal (B.B.); Piestrak, Jan (J.L.); Polaski, Mike (M.S.); Poteet, Karen (K.L.); Ramsey, Wanda (W.D.); Ratliff, Kathy (K.); Riese, Michael (M.J.); Rutkowski, Barb (B.A.); Sasanas, Nick (N.); Sims, Raymond (R.); Smith, Warren (W.A.); Sotelo, Pete (P.); Stonewall, Wendy (M.); Svetich, Chris (C.); Turner, Bridgette (B.); Turner, Patrice (P.T.); Warren, Carl (C.); Wertman, David Brian (D.B.); Woods, Tina (T.); Zroback, David (D.P.); Renwick, Rick (R.J.); Russo, William (W.P.); Boerger, Jim (J.G.); Wilson, David (D.G.); Henker, Scott (S.); Cortese, Debbie (D.A.); Holland, James (J.P.); Lehmkuhl, David (D.B.); Kwasniewicz, Chris (C.L.); Sarkisian, Mark (Z.); Hearn, Mark (E.); Cantrell, David (D.D.); Thornton, George (G.A.); Quijada, Jorge (J.); Galindo, Sergio (S.N.); Rodriguez, Cynthia (C.R.); Shelton, Chris (C.E.); Price, Adrian (A D.); Wilson, David (D.G.); Soper, Todd (R.); Price, Adrian (A D.); Farley, Tonja (T.L.); Domek, James (J.J.); Moizuk, Layne (L.E.); Galas, Dean (C.K.); Miller, Brian (B.J.); Renwick, Rick (R.J.); Langley, Scott (C.S.); Hall, Brent (A.); Boerger, Jim (J.G.); Chabon, Michael (W.)
Cc: Cantrell, David (D.D.)
Subject: Stop Ship # 2603 - Taurus/MKS/Fusion Sport/MKZ/Flex/MKT/E-Series/F150/Transit Connect/Focus - ETB Suspect Concern
Importance: High

Subject : **Stop Ship # 2603 -** RFR **Fusion Sport/** Redacted for relevance Redacted for relevance **- Electronic Throttle Body Suspect Concern**

Vehicles Affected : All RFR /Fusion Sport/ RFR vehicles with 3.5L/3.7L PFI (Intake-VCT) Engines

Redacted for relevance

Plants Affected : Redacted for relevance

Hermosillo Stamping & Assembly Plant

Redacted for relevance

Kansas City Assembly Plant (F150)

Redacted for relevance

Parts Affected : 7T4E-9F991-GA
8S4E-9F991-CA

Supplier : Continental (7T4E ETB Supplier)
Delphi (8S4E ETB Supplier)

WERS Alert # : A12375522

Concern Description:

All rfr /Fusion Sport/ RFR vehicles with 3.5L/3.7L non-GTDI (Intake-VCT) engines, all redacted for relevance, and all Redacted for relevance Engines have been placed on Stop Ship due to an ETB concern for silicone out-gassing of a seal PIA to the ETB. All vehicles will be held until root cause is confirmed and corrective actions are implemented per A12375522.

Regards,

D. David Cantrell, Jr.
Chicago Assembly PVT Manager
Taurus / MKS Programs
Ford Motor Company
Ford-UofM FAEP Lead Recruiter
Ford Cell Ph: 313-805-8324
Chicago Assembly Plant – PVT Office
dcantrel@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, March 29, 2011 5:39 PM
To: Dixon, Mark (M.R.); Snyder, John (J.C.)
Cc: Oyafuso, Kevin (K.G.); Davis, Andrae (A.L.); Wilson, David (D.G.); Chabon, Michael (W.); Schiltges, Dave (D.); Selthofer, Adam (A.); Pulay, Kirk (K.); Soper, Todd (R.)
Subject: RE: Twisted Pair Presentation -- For ETC Circuit

John,
Thank you very much for your attention to this! This could be very meaningful to our warranty performance.
So, do the rfr applications all have the same harness?
And, are the 2.5l's and the 3.0l's each the same harness across Escape & Fusion?
... how about the 2.5l HEV app's?

Two other pieces of information we were looking for...
- What "high current" circuits run in the same bundle as the ETC?
- Does the engine harness in-turn connect to a -14290- harness or direct to the PCM?
... I looked at a 3.0l Fusion and this appears to be the case.
So, we were next going to ask Bashar Hanna to help us understand the routing/circuits within that harness.

As for the distance that caused us issues on the 3.5l CD...
1) It was within the -14290- harness and
2) the length that the ETC circuits run in parallel with the wiper module circuit is somewhere between about 460mm to 510mm.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
***& Rawsonville Resident Engrg** (for Engine Components)*
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Dixon, Mark (M.R.)
Sent: Tuesday, March 29, 2011 3:20 PM
To: Langley, Scott (C.S.); Snyder, John (J.C.)
Cc: Oyafuso, Kevin (K.G.)
Subject: FW: Twisted Pair Presenation -- For ETC Circuit

John, thanks.

Scott how does this circuit length compare with the 3.5L CD application with the TPS noise concern?

From: Snyder, John (J.C.)
Sent: Tuesday, March 29, 2011 2:45 PM
To: Dixon, Mark (M.R.)
Subject: FW: Twisted Pair Presenation -- For ETC Circuit

Mark, this is what I have so far.

Length of TPS circuits: ETB to PCM
2.5L: 1,470mm
3.0L: 1,291mm
3.5L iVCT: 725mm

Are the CKP circuits twisted?
No they are not twisted. CKP (Hall Effect) is limited to 2011MY and beyond 3.5L iVCT GTDI and 3.5L TiVCT GTDI.
Lear is working on the other items:
- Other OEMs TPS & CKP twisting practice
- Do any other Ford Powerpack harnesses route near high voltage motors

John Snyder
Power Pack EDS Supervisor
Cell: (313) 805-5778
BLD1 13G066

From: Dixon, Mark (M.R.)
Sent: Friday, March 18, 2011 10:51 AM
To: Snyder, John (J.C.)
Cc: Cowher, Terry (T.); Langley, Scott (C.S.); Goodwin, William (W.R.)
Subject: RE: Twisted Pair Presenation -- For ETC Circuit

John, thanks for supporting the discussion today.

Applications (contactess TPS) that are high for unexplained driveability concerns (per CQIS and warranty records) are:

Escape 2.5 and 3.0L (we actually have QSF on TNI stalls on Escape 3.0L)
3.5L PFI Applications rfr
Fusion 2.5 and 3.0L

Per discussion, to refine this list to identify the applications we think there is cause to move quicly on, would appreciate your help in getting the harness length and "cut list" information on high current wires bundled with TPS wires.

Terry, per disussion, would appreciate help in cutting quality data by applicatioins above for D21 and D36. .

From: Fluegemann, David Lawren (D.L.)
Sent: Thursday, March 17, 2011 8:15 AM
To: Bushman, Thomas (T.S.)
Cc: Dixon, Mark (M.R.); Cowher, Terry (T.); Snyder, John (J.C.)
Subject: RE: Twisted Pair Presenation -- For ETC Circuit

Tom,
Currently the 3.0L does not have the Throttle body ETCREF and ETCRTN twisted. It can be twisted, but I would need the ICD from the throttle body component engineer showing these circuits require twisting. Also I will need CD3 to concur with the change. Please call me and we can talk.

Have a great Day
David Fluegemann
Engine Wire Harness CPMT Leader/MRFS Gasoline V8 & V10

Cell Phone # (313) 805-4075
Bldg 1 13G077

From: Bushman, Thomas (T.S.)
Sent: Wednesday, March 16, 2011 3:39 PM
To: Fluegemann, David Lawren (D.L.)
Cc: Dixon, Mark (M.R.); Cowher, Terry (T.)
Subject: FW: Twisted Pair Presenation -- For ETC Circuit

Dave -

As you know, we've been experiencing the Engine Stalls on the 3.0L -- with no codes. Please see the attached report - apparently the 3.5L Team discovered that they needed a twisted pair of wires for the ETC Circuit to prevent EMI Noise --- do you know if we have this in our Engine Wire Harness design today, and if we don't, could we get this in on our next Engine Wire Harness?

Thanks!

Regards,

Thomas S. Bushman
U377 Powertrain Engineering Supervisor
Kansas City Assembly Plant
(816)459-1956 or (757)435-7442

"Who is John Galt..."

From: Dixon, Mark (M.R.)
Sent: Wednesday, March 16, 2011 6:42 AM
To: Sparks, Douglas (D.S.); Bushman, Thomas (T.S.)
Subject: Twisted Pair Presenation

Doug, this is the twisted pair presentation we did at yesterday's C&C FQR. Based our our recent 3.5L CD ETC concern, we think other vehicle lines may be at risk for stalls/hes concerns due to noise on the throttle position sensor (contactless type).

Next step is to identify priority applications where quality data indicates we have a risk. Will be reviewing this later this week with the PCSE, ETC, and EESE teams.

Tom, Terry Cowher and I see this as another possible critical X for Escape and CD stalls. Escape picked up contactless sensor in 2009.

<< File: 35L CD ETC Concern.ppt >>

Mark Dixon
Powertrain Quality
Ford Motor Company

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mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Garant, Dan (DCG.)
Sent: Monday, April 09, 2012 2:44 PM
To: Gudino Mendoza, Martin (J.M.)
Cc: Garant, Dan (DCG.)
Subject: 2011 - 2012 Fusion/Milan 3.0L Engine Stall At Low RPM
Attachments: 2011_3.0L Stalls At Low RPM.xlsx; 2012_3.0L Stalls At Low RPM.xlsx

Martin,

Per our discussion this morning, I have attached the GCQIS folder details for the 3.0L Engine Stall concerns. We currently have 15 reports for the 2012 model year. Please let me know if you find anything out.

Thanks,

Dan Garant
Product Concern Engineer
Ford Customer Service Division
P: 313-845-4463
F: 313-337-5696
dgarant1@ford.com

Folder Report Listing

Folder Number : 110065630000								
MODEL YEAR	**VIN**	**BUILD DATE**	**REPORT DATE**	**ODOMETER**	**REPORT NUMBER**	**BODY MODEL DESC**	**ENGINE DESC**	**EXISTS IN OTHER FOLDERS**
2011	3FA	10/13/2010	01/10/2012	654	CAJB6009	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	10/12/2010	01/06/2012	20598	CAFE7008	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	05/05/2011	12/21/2011	2853	BLUDP006	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	01/05/2011	12/19/2011	26379	BLSEE004	SEL AWD,4 DOOR	3.0L 4V	No
2011	3FA	01/19/2011	12/09/2011	9978	BLIBI005	HYBRID ,4 DOOR	2.5 ATKINS	No
2011	3FA	01/12/2011	12/09/2011	3156	BLIAX015	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	12/04/2010	12/09/2011	21372	BLIAX011	S ,4 DOOR ,SEDAN	2.5L DOHC	No
2011	3FA	05/07/2011	11/11/2011	527	BKKCJ002	SEL ,4 DOOR ,SEDAN	2.5L DOHC	No
2011	3ME	09/10/2010	11/10/2011	20091	BKJA4002	PREMIER,4 DOOR	3.0L 4V	No
2011	3FA	08/13/2010	11/08/2011	7980	BKHDV010	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	03/15/2011	11/02/2011	7293	BKBCB002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	05/18/2011	10/28/2011	8137	BJ2E8005	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	05/12/2011	10/28/2011	1387	BJ2D6002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	01/12/2011	10/28/2011	6623	BJ2CJ007	SEL AWD,4 DOOR	3.0L 4V	No
2011	3FA	03/16/2011	10/25/2011	8789	BJYBW002	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	05/24/2011	09/14/2011	3183	BIND2002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	05/24/2011	09/01/2011	5417	BIABM008	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3FA	09/26/2010	06/11/2011	1967	BFKAA009	SEL AWD,4 DOOR	3.0L 4V	No
2011	3FA	03/02/2011	05/27/2011	1641	BE1AO002	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2011	3ME	08/06/2010	05/13/2011	8574	BEMB9002	PREMIER,4 DOOR	3.0L 4V	No

Folder Report Listing

Folder Number : 110084760000								
MODEL YEAR	**VIN**	**BUILD DATE**	**REPORT DATE**	**ODOMETER**	**REPORT NUMBER**	**BODY MODEL DESC**	**ENGINE DESC**	**EXISTS IN OTHER FOLDERS**
2012	3FA	07/11/2011	04/05/2012	693	CDEGT003	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	07/30/2011	04/02/2012	1218	CDBC1027	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	07/01/2011	03/27/2012	9490	CC1FA003	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	02/01/2012	03/26/2012	814	CCZBF015	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	10/16/2011	03/12/2012	156	CCLEC004	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	10/01/2011	02/29/2012	1994	CB3BH002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	10/10/2011	02/28/2012	3118	CB2GJ002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FA	11/16/2011	02/02/2012	292	CBBAT014	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FAHP0HG3CR2026 02	10/11/2011	01/28/2012	2109	CA2AD002	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FAHP0JG6CR1798 44	09/15/2011	01/26/2012	2682	CAZAL001	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FAHP0HG9CR1635 94	08/17/2011	12/22/2011	2474	BLVE4004	SE ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FAHP0CG8CR1792 75	09/12/2011	12/20/2011	2599	BLTC5002	SEL AWD,4 DOOR ,SEDAN	3.0L 4V	No

2012	3FAHP0CG7CR2326 93	11/12/2011	12/03/2011	185	BLCAC010	SEL AWD,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FAHP0JG6CR1817 07	09/24/2011	11/30/2011	284	BK4EO001	SEL ,4 DOOR ,SEDAN	3.0L 4V	No
2012	3FAHP0JG2CR1803 92	09/15/2011	10/26/2011	341	BJZEH001	SEL ,4 DOOR ,SEDAN	3.0L 4V	No

From: Dixon, Mark (M.R.)
Sent: Wednesday, October 14, 2009 10:59 AM
To: Durand, Gerardo (G.D.)
Cc: Post, Kyle (K.R.); Langley, Scott (C.S.)
Subject: FW: Cert Review Agenda -- 8/12/2009

Gerardo, is this related to one of the know 201 MY wire chafe concerns?

Mark Dixon
Powertrain Quality
Ford Motor Company
Building 2 / 24K36
mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Post, Kyle (K.R.)
Sent: Wednesday, October 14, 2009 8:30 AM
To: Dixon, Mark (M.R.)
Cc: Arbanas, Kelly (K.M.); Misangyi, Pete (P.W.); Tran, Dan (D.H.); Trupiano, Vito (V.A.); Riordan, Paul (P.R.); Langley, Scott (C.S.); Hall, Brent (A.); Szuszman, Paul (P.J.); Nelson, Ryan (R.T.); Clary, Brian (B.S.); Chea, Top (T.C.)
Subject: RE: Cert Review Agenda -- 8/12/2009

I have included the P060X and P2107 claims for Escape and CDs.

Mark,
I did notice a higher occurance of P2107 alone DTCs occuring on the CDs (non-HEV). This can be caused by ETB motor wiring shorts or PCM H-bridge faults. I noticed at least a few claims mention a short in the ETB motor wiring from rubbing on the transaxle. Some of the P2107's had PCM replacements and the vehicle returned with the same code. I know this is a little off topic (not P060X) but an SSM and followup with wiring might be necessary. Is there a known issue for wiring chaffing on the CDs transaxle?

"FOUND SHORT TO GROUND BY WIRE RUBBING AGAINST TRANSAXLE CASE. WIRE INFO. CKT CE426 BU GR B W PIN 51 OF PCM AND PIN 2 OF ETC MOTOR HARNESS 14401."

Thanks,
Kyle Post

From: Chea, Top (T.C.)
Sent: Tuesday, October 13, 2009 11:04 AM
To: Dixon, Mark (M.R.); Nelson, Ryan (R.T.); Post, Kyle (K.R.); Clary, Brian (B.S.); 'David.Wood@us.contiautomotive.com'
Cc: Arbanas, Kelly (K.M.); Misangyi, Pete (P.W.); Tran, Dan (D.H.); Trupiano, Vito (V.A.); Riordan, Paul (P.R.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Looks like you have a couple of 2.3L CDs which I don't think can have the battery drain issue since I thought the PCM and equizzer was designed to reset at the same time. Also, it looks like the descriptions of most of the vehicles would rule out the battery drian issue. Have you tested any of the returned PCMs if the issues were repeatable? Looks to be actual PCM/wiring issues to me.

Top

From: Dixon, Mark (M.R.)
Sent: Tuesday, October 13, 2009 10:52 AM
To: Chea, Top (T.C.); Nelson, Ryan (R.T.); Post, Kyle (K.R.); Clary, Brian (B.S.); 'David.Wood@us.contiautomotive.com'
Cc: Arbanas, Kelly (K.M.); Misangyi, Pete (P.W.); Tran, Dan (D.H.); Trupiano, Vito (V.A.); Riordan, Paul (P.R.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Attached are the claims for 2009 and 2010 for P060A. The P060A DTC is not shown in all the tech verbatims since this claims list was pulled based on codes entered into DTC field on claim.

The P060A DTCs are coming in with a string of other codes, particularly with the CD. Appears to be a mixed bag of PT's.

<< File: P060A Escape CD.xls >>

Mark Dixon
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mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Chea, Top (T.C.)
Sent: Tuesday, October 13, 2009 10:21 AM
To: Nelson, Ryan (R.T.); Post, Kyle (K.R.); Clary, Brian (B.S.); Dixon, Mark (M.R.); 'David.Wood@us.contiautomotive.com'
Cc: Arbanas, Kelly (K.M.); Misangyi, Pete (P.W.); Tran, Dan (D.H.); Trupiano, Vito (V.A.); Riordan, Paul (P.R.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Okay, I understand the difference between Fusion and Escape numbers now. It appears the volume was separated into 2009 and 2010 for the Fusion. They have about the same rate of P060a if you combine the 2 model years. I still want to know if it is happening on both engines. Also there was a depopulation of the PCMs post Job 1, are all these codes happening with the newer depopulated PCMs? I tested one of the new PCMs and didn't find issues, but I was also told that it was changed twice, so maybe I didn't test the final changes?

Dave, do you know what got depopulated on the 2.5 and 3.0L? Also, I heard you were testing a PCM that was returned from the field yesterday. Did you try a battery drain to test the issue?

Thanks,

Top Chea

From: Chea, Top (T.C.)
Sent: Tuesday, October 13, 2009 9:53 AM
To: Nelson, Ryan (R.T.); Post, Kyle (K.R.); Clary, Brian (B.S.); Dixon, Mark (M.R.)
Cc: Arbanas, Kelly (K.M.); Misangyi, Pete (P.W.); Tran, Dan (D.H.); Trupiano, Vito (V.A.); Riordan, Paul (P.R.)
Subject: RE: Cert Review Agenda -- 8/12/2009

I agree with Ryan, we need to see why the Escape is setting the P060A as we did not see issues with our testing on Conti modules.

Mark/Kyle, which escape 2.5 or 3.0L or both setting the code? Also why so many more escapes compared to the fusions (18 vs 3), they are the same PCMs?

Thanks,

Top Chea

From: Nelson, Ryan (R.T.)
Sent: Tuesday, October 13, 2009 9:24 AM
To: Post, Kyle (K.R.); Clary, Brian (B.S.)
Cc: Arbanas, Kelly (K.M.); Chea, Top (T.C.); Misangyi, Pete (P.W.); Tran, Dan (D.H.); Trupiano, Vito (V.A.); Riordan, Paul (P.R.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Kyle,

I don't think we have a current plan for rollout of the P060A fix. It already went into rfr but the other affected programs rfr need an ETIPC fix. Mark Dixon's note references Fusion/Escape, but our testing has shown that Conti programs are not susceptible to P060A due to battery drain. Nonetheless, I am very surprised to see that there are 18 claims for P060A on Escape. We need to understand the root cause for those claims.

We've discussed having Roush do the ETIPC fix a couple times now at the Dependability SSFT, but no further progress has been made due to resource constraints. There are some releases for rfr coming up soon, so it is possible to implement the fix if PCSE can support.

Regards,

Ryan T. Nelson
Electronic Throttle Monitor (ETM) Calibration
TEE, 1AE43
(313) 805-7221
rnelso11@ford.com

From: Post, Kyle (K.R.)
Sent: Monday, October 12, 2009 7:30 AM
To: Clary, Brian (B.S.); Nelson, Ryan (R.T.)
Subject: FW: Cert Review Agenda -- 8/12/2009
Importance: High

Brian / Ryan,
Do you know when the P060A fix will be rolled out to other programs?

Thanks,

Kyle Post
Ford Motor Company
PCSE
Certified Black Belt
kpost1@ford.com
Phone: (313) 805-0020

From: Dixon, Mark (M.R.)
Sent: Monday, October 12, 2009 6:41 AM
To: Post, Kyle (K.R.)
Subject: FW: Cert Review Agenda -- 8/12/2009
Importance: High

Kyle, I see from the attached white paper that there is a fix being relaeased (on rfr in this case) for DTC P060A for incidents that would occur after battery drain or jump start. This is a Bosch PCM application.

Do you know if this fix is being rolled to other applications as well? I see we are getting this code on the Fusion and Escape (both Conti applications) and rfr (Bosch application). Code mostly leads to PCM replacement

Is this related to the Quizzer fix implemented on Focus recently?

<< OLE Object: Picture (Enhanced Metafile) >>

Mark Dixon
Powertrain Quality
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mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Leisenring, Ken (K.C.)
Sent: Friday, October 09, 2009 2:52 PM
To: McDonagh, Scot (S.M.); Dixon, Mark (M.R.)
Cc: Rumpsa, Todd (T.); Peters, Robin (R.S.); Cutaiar, Michael (MC.); Barwick, Matt (M.E.); Cowher, Terry (T.); Willette, Paul (P.R.); Pursifull, Ross (R.D.); Sweppy, Michael (M.S.); Cowher, Terry (T.); Hammoud, Mazen (M.)
Subject: RE: Cert Review Agenda -- 8/12/2009
Importance: High

Scot,

Did a TSB ever get released for 2010 GTDI R10? There is a probable emerging QSF for GTDI P0096 codes which has already been fixed with R10. R10 went into production on/around 10/1/09, but I don't think the TSB discussed in the emails below was ever written/released. The R10 White Paper is 03.14.01-4205 (attached). I think we need somebody to start authoring the TSB as soon as possible (if it isn't already done) so we can close the QSF as soon as possible.

Thank you.

<< File: WP4205.pdf >>
Ken Leisenring
Cell : (313) 805-5459

From: McDonagh, Scot (S.M.)
Sent: Wednesday, August 12, 2009 10:15 AM
To: Dixon, Mark (M.R.); Cutaiar, Michael (MC.); Barwick, Matt (M.E.)
Cc: Rumpsa, Todd (T.); Leisenring, Ken (K.C.); Peters, Robin (R.S.)
Subject: RE: Cert Review Agenda -- 8/12/2009

I will be glad to develop the TSB when signed, approved R10/R20 Whitepapers are available. When is 2010 Job #2 ?
Do we have production incorporation timing for R10 running change ?

Scot G. McDonagh
Super-Duty PT Quality
Phone: (313)337-8091
smcdonag@ford.com

From: Dixon, Mark (M.R.)
Sent: Tuesday, August 11, 2009 12:41 PM

To: Cutaiar, Michael (MC.)
Cc: McDonagh, Scot (S.M.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Mike, appears that this is something we would want a TSB on. Would need the White Paper to get started on this.

Mark Dixon
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Tel: (313) 805-7051

From: Cutaiar, Michael (MC.)
Sent: Tuesday, August 11, 2009 8:40 AM
To: Dixon, Mark (M.R.); Marcum, Michael (M.P.)
Cc: McDonagh, Scot (S.M.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Mark,
R10 is a running change that will address a few OBD concerns and a shift flare when the trans is cold.
I do not have timing yet but I am sure it will be before Job#2.

R20 is also on deck, and is a Job#2 timed release. This is a coordinated change to support the Heated PCV delete.

Thank You
Michael Cutaiar
Cyclone Engine Systems Calibration
(313) 805-4910
mcutaiar@ford.com

From: Dixon, Mark (M.R.)
Sent: Tuesday, August 11, 2009 8:04 AM
To: Marcum, Michael (M.P.); Cutaiar, Michael (MC.)
Cc: McDonagh, Scot (S.M.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Mike C, is this the 2010 Job #2 GTDI calibration release (that includes the change to the cat monitor)? Any other critical content that would be important for service fixes?

Mark Dixon
Powertrain Quality
Ford Motor Company
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mailto:mdixon@ford.com
Tel: (313) 805-7051

From: Marcum, Michael (M.P.)
Sent: Monday, August 10, 2009 1:28 PM
To: Rumpsa, Todd (T.); Cutaiar, Michael (MC.); Dixon, Mark (M.R.)

Cc: Pierce, Michael (M.A.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Todd, I suggest working through The Quality Team for TSB process and Advise.

The Lead contact in Powertrain Quality is Mark Dixon.

- Mike

From: Rumpsa, Todd (T.)
Sent: Monday, August 10, 2009 1:11 PM
To: Cutaiar, Michael (MC.); Marcum, Michael (M.P.)
Cc: Pierce, Michael (M.A.)
Subject: RE: Cert Review Agenda -- 8/12/2009

Thanks. I've updated with the latest R10 part # info from Mike M.

Do you guys know what/who determines if a TSB is required, and what the process is? I'm assuming we do want a TSB for the R10, given that there are both OBD robustness and driveability improvements in it.

Best Regards,
Todd Rumpsa
2010 GTDI & Advanced P/T Calibration Supervisor
OFFICE: (313)32-25224 CELL: (313)805-1103

From: Cutaiar, Michael (MC.)
Sent: Monday, August 10, 2009 10:25 AM
To: Rumpsa, Todd (T.); Marcum, Michael (M.P.)
Cc: Pierce, Michael (M.A.)
Subject: RE: Cert Review Agenda -- 8/12/2009
Importance: High

I noticed the part numbers weren't incremented on either white paper.
I think the suffix should be a G for R-10 and will either be an H for R-20 or go to an entirely different part number.
Is this needed for Cert Review?

Thank You
Michael Cutaiar
Cyclone Engine Systems Calibration
(313) 805-4910
mcutaiar@ford.com

From: Rumpsa, Todd (T.)
Sent: Monday, August 10, 2009 9:23 AM
To: Cutaiar, Michael (MC.); Marcum, Michael (M.P.)
Cc: Pierce, Michael (M.A.)
Subject: FW: Cert Review Agenda -- 8/12/2009

Mike's,
Here are the draft white papers for the 2010 GTDI releases (R10 and R20) scheduled for this Cert Review 8/12 and release Thursday 8/13. Note that the concern hasn't been pulled yet for the R10 release - Ken L. is working to get it pulled shortly.

Mike M.,
Can you provide the proper catch-words for both the R10 and R20 releases?

Michael P.,
Can you run the current file compare and send out for people to populate the "details of change" section. There may still be a few minor changes coming for A/C cutout, but I'd like to get what we know documented as soon as possible.

<< File: 2010 GTDI R10 Whitepaper v1.doc >> << File: 2010 GTDI R20 Whitepaper v1.doc >>

Best Regards,
Todd Rumpsa
2010 GTDI & Advanced P/T Calibration Supervisor
OFFICE: (313)32-25224 CELL: (313)805-1103

From: Peters, Robin (R.S.)
Sent: Monday, August 10, 2009 9:02 AM
To: Aguilar, Clark (C.); Anderson, Bruce (B.C.); Backer, Brad (W.B.); Baltusis, Paul (P.A.); Barwick, Matt (M.E.); Baumgartner, George (G.K.); Behnke, Dave (D.P.); Beltramo, Joel (J.J.); Benedetti, Dario (D.); Beretz, Paul (P.D.); Bevan, David (D.M.); Brown, Robert (R.D.); Brylinski, Michael (M.W.); Buchman, Kevin (K.R.); Burgess, Gregory (G.S.); Camaj, Linda (.); Childress, Terry (T.W.); Clay, Sean (S.); Corcoran, William (W.C.); Courtney, Bill (W.L.); Crompton, Todd (T.J.); Cusumano, Jacob (J.J.); DeBrule, Peter (P.E.); DeLisle, Joe (J.C.); Dennis, Matt (M.A.); Diakiw, Markian (M.O.); Dimaria, Anthony (A.F.); Dona, Alan (A.R.); Fagerman, Todd (T.M.); Faith, Marisa (M.A.); Fitz, Don (D.J.); Forintos, Darryl (D.A.); Gabbert, Michael (M.J.); Gandhi, Harendra (H.S.); Gernant, Tim (T.R.); Grando, Anthony (A.W.); Harrison, Darius (D.A.); Hart, Jenny (J.); Hedges, John (J.E.); Hepburn, Jeffrey (J.S.); Holycross, Bob (R.T.); Howard, Steven (S.M.); Hunsanger, Eric (E.C.); Jadan, Terry (T.); Jardine, Ross (R.A.); Kapitanec, Cheryl (C.); King, Brian (B.M.); Kobetis, Mark (M.); Kowalske, Robert (R.K.); Kuechler, Peter (P.D.); Larkin, Rex (R.M.); Layden, Kevin (K.E.); Lempke, David (D.A.); Levens, Don (D.G.); Lyon, Peter (P.M.); Martin, Douglas (D.R.); May, David (D.A.); Merideth, Jennifer (J.); Merlino, Timothy (T.J.); Middleton, Kenneth (K.C.); Nault, Ben (B.D.); Nazarek, Mike (M.D.); Nevarez, Arturo (A.); Nickerson, Kurt (K.H.); Okafor, Chijioke (A.); O'Neil, Brian (B.M.); Orton, David (D.P.); Page, Fred (F.A.); Pearce, Steve (S.L.); Pedinelli, Gary (G.L.); Peters, Robin (R.S.); Ranspach, Paul (P.M.); Redmond, Vincent (V.A.); Riordan, Paul (P.R.); Rocco Bellino (rbelli@roushind.com); Sadler, Alan (A.C.); Salciccioli, Nick (N.); Sawicky, Dianna (D.K.); Sbaschnig, Rich (R.W.); Schmid, Andrew (A.C.); Schubeck, Nicholas (N.P.); Shanahan, John (J.L.); Shay, Toni (T.M.); Singh, Kiran Premi (KPS.); Skinner, LaVonne (L.L.); Spuller, David (D.T.); Baldori, Kerry (K.P.); Balsis, Jeff (J.A.); Barnes, Tom (T.); Bobak, Jeff (J.); Dame, Andrew (A.C.); Davis, John (J.M.); Eshelman, Colleen (C.T.); Filipe, David (D.J.); Gaworecki, Paul (P.C.); Glennon, Mark (M.P.); Hammoud, Mazen (M.); Hardigan, Pete (P.J.); Harding, Lindsay (L.C.); Harrison, Dan (D.); Hsueh, Argin (A.); Hughes, Scott (S.R.); Iorio, Rob (R.R.); Koberstein, Fred (.); Korpics, Frank (F.M.); Krygowski, Rick (R.J.); Kunitz, David (D.W.); Landry, Mike (Michael P.); Langeland, Tom (T.R.); LaRoche, Cory (C.B.); LaVoie, Vincent (V.P.); Leisenring, Ken (K.C.); LeRoux, Mark (M.D.); Lewis, Jeffrey (J.E.); Lojovich, Rachelle (R.A.); Magana, Artemio (A.); Marzonie, Rob (R.M.); Mayorga, Hector (H.); McClain, Shawn (S.M.); McRae, Judy (.); Misangyi, Pete (P.W.); Newman, Todd (T.J.); Oliver, Tina (T.A.); Paddy, Scott (S.M.); Patel, Bharat (B.J.); Pearce, Randy (.); Pennington, Carol (C.J.); Perini, Rob (R.M.); Pianczk, Michele (M.M.); Piontek, Timothy (T.A.); Popeck, Rick (R.J.); Ramirez, Mauricio (M.R.); Remes, Enrique (E.); Reyes, Pete (P.D.); Reynolds, Gregory (G.R.); Rodgers, Barbara (B.N.); Rogers, Wayne (L.); Rouen, Jim (J.G.); Rubinlicht, Rachel (R.L.); Rumpsa, Todd (T.); Santamaria Moreno, Omar (O.S.); Saylor, Eric (E.L.); Schaffer, Daniel (M.); Schubert, Tom (T.A.); Sheeran, William (W.M.); Sims, Ivan (I.D.); Singh, Kiran Premi (KPS.); Smith, Craig (C.A.); Soltis, Mike (M.W.); Sonnichsen, John (J.W.); Sosnowski, Nicholas (N.A.); Sparks, Duane (D.M.); Stoll, Bob (Robert E.); Suter, Charles (C.W.); Syrylo, Shelley (S.C.); Thomas, Steven (S.W.); Thompson, Scott (S.J.); Thomson, John (J.C.); Thornton, David (D.H.); Traskos, Diane (D.M.); Trujillo, Elvia (N.); Vaughn, Timothy (T.T.); Waldock, Lisa (L.M.); Walkowicz, Marc (M.A.); Warm, David (D.L.); Webb, Timothy (T.J.); Weber, Chris (C.R.); Werthman, Alyssa (A.A.); Whitbeck, Neil (N.G.); White, Stephen (S.M.); Whitehead, Joe (J.P.); Widmann, Carl (C.A.); Wiedmeyer, Robert (R.J.); Wilson, Marie (M.); Winczkowski, Bette (B.); Witte, Wade (W.A.); Wong, Dave (D.A.); Worthington, Richard (R.E.); Wu, Ruowen (R.); Young, Dan (D.G.); Zenas, Jeff (J.F.); Zimlich, Glenn (G.A.)
Subject: Cert Review Agenda -- 8/12/2009

<< File: cert agenda 8-12-09.xls >>
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Robin Peters
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Model Yea	VIN	C	Vehicle Lin	Vehicle Lin	Drive Type	Assembly F	Warranty S	Sell Dealer	WCC	VFG	Customer (	Condition (	Customer (	Technician	VOC / EOC	Engine [EN
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	28-Jan-09	158498	2G01	V29	E29		42	COMPUTE	TEST EEC	P089R121	C/GZ
2009	3FAHP021	[redacted]	DE	FUSION	C/F	A3	13-Dec-08	116479	2G01	V29	E29		42	CHECK EN	VERIFIED	P029R150	C/WD
2009	3FAHP081	[redacted]	DE	FUSION	C/A	A3	17-Feb-09	116054	2G01	V52	D21		42	CUSTOME	INSTALL II	P089R186	C/WD
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	########	111424	2G01	V29	E29		42	CHECK EN	FEELING \	U939KB63	T/SG
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(	U029KA38	T/S7
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	6-Apr-09	147019	2G04	V29	E29		42	CUSTOME	IDS TESTE	P089R205	C/GZ
2009	1FMCU94(	[redacted]	M1	ESCAPE	T/F	AJ	8-Dec-08	148032	2G04	V29	E29		42	REPAIR EI	957 12A65	U949KA88	T/SG
2009	3FAHP021	[redacted]	DE	FUSION	C/F	A3	13-Dec-08	116479	2G01	V29	E29		42	CHECK EN	VERIFIED	P029R150	C/WD
2009	3MEHM08	[redacted]	ML	MILAN	C/A	A3	24-Nov-08	312438	2G01	V52	D02		42	CUSTOME	PCM FAUL	M089R620	C/GZ
2009	3MEHM08	[redacted]	ML	MILAN	C/A	A3	29-Jan-09	326191	7S02	V29	E29	B4		CUSTOME	NO COMM	M089R628	C/WD
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	30-Sep-08	121406	2G01	V29	E29		42	CUSTOME	TEST EEC	P079R129	C/GZ
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	########	148044	2G01	V29	E29		42	E29 CUST	1050 CC 4	U029KC03	T/S7
2009	1FMCU94(	[redacted]	M1	ESCAPE	T/F	AJ	24-Aug-09	153784	2G01	V44	D50		28	VEHICLE S	TEST ENG	U949KD06	T/SG
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(	U029KA38	T/S7
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(	U029KA38	T/S7
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	########	127062	2G03	V29	E29		33	PERFORM	EEC TEST	P089R193	C/GZ
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	30-Mar-09	116414	2G04	V29	E29		82	CUSTOME	975 CHEC	U939KB64	T/SG
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	########	111424	2G01	V29	E29		42	CHECK EN	FEELING \	U939KB63	T/SG
2009	3MEHM08	[redacted]	ML	MILAN	C/A	A3	29-Jan-09	326191	7S02	V29	E29	B4		CUSTOME	NO COMM	M089R628	C/WD
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	30-Sep-08	121406	2G01	V29	E29		42	CUSTOME	TEST EEC	P079R129	C/GZ
2009	3FAHP081	[redacted]	DE	FUSION	C/A	A3	17-Sep-08	148016	2.00E+03	V29	E29		41	E29 CHEC	3053 BIND	P089R113	C/WD
2009	1FMCU94(	[redacted]	M1	ESCAPE	T/F	AJ	8-Dec-08	148032	2G04	V29	E29		42	REPAIR EI	957 12A65	U949KA88	T/SG
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(	U029KA38	T/S7
2009	1FMCU937	[redacted]	M1	ESCAPE	T/F	AJ	28-Oct-08	113572	2G04	V52	D02		42	CUSTOME	TOWED T(	U939KA20	T/S7
2009	3FAHP071	[redacted]	DE	FUSION	C/A	A3	15-Dec-08	148017	2G01	V29	E29		41	CHECK EN	POWERTR	P079R199	C/WD
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	########	148044	2G01	V29	E29		42	E29 CUST	1050 CC 4	U029KC03	T/S7
2009	3FAHP071	[redacted]	DE	FUSION	C/A	A3	15-Dec-08	148017	2G01	V29	E29		41	CHECK EN	POWERTR	P079R199	C/WD
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	8-Nov-08	152001	2G01	V52	D42		42	CUSTOME	CK ENGIN	P079R162	C/GZ
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	14-Apr-09	123223	2.00E+03	V29	E29		42	CUST STA	P2104, P2	P089R219	C/GZ
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	########	124009	2G01	V29	E29		42	CUSTOME	2 CONFIRI	P089R214	C/GZ
2009	1FMCU937	[redacted]	M1	ESCAPE	T/F	AJ	28-Oct-08	113572	2G04	V52	D02		42	CUSTOME	TOWED T(	U939KA20	T/S7
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	6-Dec-08	127636	2G05	V29	E29		4	CUST STA	TESTED S	P079R196	C/GZ
2009@	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3		148048	2G01	V52	D21		42	CHECK AN	42 12A650	P079R152	C/GZ
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	28-Jan-09	158498	2G01	V29	E29		42	COMPUTE	TEST EEC	P089R121	C/GZ
2009	3LNHM28T	[redacted]	ZP	ZEPHYR/M	C/F	A3	2-Jan-09	318240	2G04	V52	D02		42	CUSTOME	TRIED TO	M289R622	C/N5
2009	3FAHP071	[redacted]	DE	FUSION	C/A	A3	24-Jan-09	113057	2G01	V29	E29		46	CUSTOME	0 HOTLINE	P079R132	C/WD

2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	24-Feb-09	152097	2G01	V52	D21		28	C S VEH S	EEC TEST P079R144 C/GZ
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	1-Jun-09	144556	2G04	V29	E29		42	CHECK EN	CHECK EN U939KC14 T/SG
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	########	111424	2G01	V29	E29		42	CHECK EN	FEELING \ U939KB63 T/SG
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(U029KA38 T/S7
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	24-Feb-09	152097	2G01	V52	D21		28	C S VEH S	EEC TEST P079R144 C/GZ
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	########	148044	2G01	V29	E29		42	E29 CUST	1050 CC 4. U029KC03 T/S7
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(U029KA38 T/S7
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	6-Feb-09	123408	2G01	V52	D21		42	C S JERKS	CK CODES U029KB64 T/S7
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	6-Feb-09	123408	2G01	V52	D21		42	C S JERKS	CK CODES U029KB64 T/S7
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	9-Jun-09	121518	2G01	V52	D02		42	CUSTOME	PCM P060 P079R205 C/GZ
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	14-Apr-09	123223	2.00E+03	V29	E29		42	CUST STA	P2104, P2 P089R219 C/GZ
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	6-Apr-09	147019	2G04	V29	E29		42	CUSTOME	IDS TESTE P089R205 C/GZ
2009	3FAHP081	[redacted]	DE	FUSION	C/A	A3	18-Sep-08	171327	7S20	V29	E29		42	THE CHEC	DOES NO P089R151 C/WD
2009	1FMCU03(	[redacted]	M1	ESCAPE	T/A	AJ	6-May-09	141684	2G01	V29	E29		42	CK ENG LI	CUSTOME U039KB95 T/SG
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	15-Oct-08	121204	4C03	V52	D02		42	CUSTOME	VERIFY C(U029KA38 T/S7
2009@	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3		148048	2G01	V52	D21		42	CHECK AN	42 12A650 P079R152 C/GZ
2009	3FAHP08Z	[redacted]	DE	FUSION	C/A	A3	########	124009	2G01	V29	E29		42	CUSTOME	2 CONFIRI P089R214 C/GZ
2009	3LNHM28T	[redacted]	ZP	ZEPHYR/M	C/F	A3	2-Jan-09	318240	2G04	V52	D02		42	CUSTOME	TRIED TO M289R622 C/N5
2009	3FAHP071	[redacted]	DE	FUSION	C/A	A3	15-Dec-08	148017	2G01	V29	E29		41	CHECK EN	POWERTR P079R199 C/WD
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	6-Feb-09	123408	2G01	V52	D21		42	C S JERKS	CK CODES U029KB64 T/S7
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	########	111424	2G01	V29	E29		42	CHECK EN	FEELING \ U939KB63 T/SG
2009	3LNHM26T	[redacted]	ZP	ZEPHYR/M	C/A	A3	31-Mar-09	318653	2G05	V29	E29		42	CUSTOME	VERIFY CI M269R622 C/N5
2009	3FAHP071	[redacted]	DE	FUSION	C/A	A3	15-Dec-08	148017	2G01	V29	E29		41	CHECK EN	POWERTR P079R199 C/WD
2009	3FAHP07Z	[redacted]	DE	FUSION	C/A	A3	8-Nov-08	152001	2G01	V52	D42		42	CUSTOME	CK ENGIN P079R162 C/GZ
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	5-Jun-09	124449	2G01	V52	D02		42	C S WONT	266 INTER U029KC04 T/S7
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	24-Jul-09	158622	2G01	V52	D03		42	CUSTOME	81 CHECK U939KD02 T/SG
2009	3MEHM08Z	[redacted]	ML	MILAN	C/A	A3	24-Nov-08	312438	2G01	V52	D02		42	CUSTOME	PCM FAUL M089R620 C/GZ
2009	1FMCU94(	[redacted]	M1	ESCAPE	T/F	AJ	5-Jan-09	113073	2G01	V52	D21		42	CHECK FC	AND REPC U949KA94 T/SG
2009	1FMCU93(	[redacted]	M1	ESCAPE	T/F	AJ	1-Jun-09	144556	2G04	V29	E29		42	CHECK EN	CHECK EN U939KC14 T/SG
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	5-Jun-09	124449	2G01	V52	D02		42	C S WONT	266 INTER U029KC04 T/S7
2009	1FMCU027	[redacted]	M1	ESCAPE	T/A	AJ	########	148044	2G01	V29	E29		42	E29 CUST	1050 CC 4. U029KC03 T/S7
2009	1FMCU94(	[redacted]	M1	ESCAPE	T/F	AJ	24-Aug-09	153784	2G01	V44	D50		28	VEHICLE S	TEST ENG U949KD06 T/SG
2010@	3FAHP0HA	[redacted]	DE	FUSION	C/A	A3	11-Apr-09	116221	2.00E+03	V29	E29		42	CUSTOME	CHECKED P0HAR110 C/SB
2010@	3FAHP0HA	[redacted]	DE	FUSION	C/A	A3	26-Aug-09	152482	7S02	V29	E29	B4		CUSTOME	VERIFIED. P0HAR110 C/SB
2010	3FAHP0HA	[redacted]	DE	FUSION	C/A	A3	30-Mar-09	148209	2G01	V29	E29		42	CUST STA	PERFORM P0HAR108 C/SB
2010	3MEHM0H	[redacted]	ML	MILAN	C/A	A3	4-Apr-09	342709	2B02	V29	E29		30	CUSTOME	E29 TEST M0HAR603 C/SB
2010	3MEHM0JA	[redacted]	ML	MILAN	C/A	A3	6-May-09	345335	7S12	V29	E29	B4		CUSTOME	EEC TEST M0JAR604 C/SB

2010@	3FADP0L3	[redacted]	DE	FUSION	C/A	A3	8-Apr-09	172033	2G05	V29	E29		4	CHECK FC	INSPECTE P0LAR102 C/S3
2010	3FADP0L3	[redacted]	DE	FUSION	C/A	A3	25-Mar-09	171430	2G01	V29	E29		42	ENGINE LI	CK EEC S` P0LAR101 C/S3
2010	3FAHP0JA	[redacted]	DE	FUSION	C/A	A3	27-Mar-09	153792	2G01	V29	E29		42	W CUSTOI	CK DTC.RI P0JAR108 C/SB
2010@	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	25-Aug-09	172729	7M05	V29	E29		42	CUST STA	BAD GROI P0HAR191 C/SB
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	30-Mar-09	148209	2G01	V29	E29		42	CUST STA	PERFORM P0HAR108 C/SB
2010@	3FAHP0JG	[redacted]	DE	FUSION	C/A	A3		147020	2.00E+03	V29	E29		28	CHECK EN	15 42, 9E9 P0JAR107 C/SG
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	26-Aug-09	152482	2.00E+03	V29	E29		42	CUSTOME	VERIFIED. P0HAR110 C/SB
2010	3FAHP0JA	[redacted]	DE	FUSION	C/A	A3	1-Apr-09	148112	7V01	V29	E29	X2		CHECK EN	DIAG. U03 P0JAR109 C/SB
2010	3FAHP0JA	[redacted]	DE	FUSION	C/A	A3	1-Apr-09	148112	7V01	V29	E29	X2		CHECK EN	DIAG. U03 P0JAR109 C/SB
2010	3MEHM0J(	[redacted]	ML	MILAN	C/A	A3	13-Jun-09	342248	2G01	V52	D42		42	TOWED IN	SELF TES` M0JAR601 C/SG
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	30-Mar-09	148209	2.00E+03	V29	E29		41	CHECK EN	1916 TEST P0HAR108 C/SB
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	30-Mar-09	148209	2.00E+03	V29	E29		42	WRENCH	42 PERF P0HAR108 C/SB
2010	3LNHL2JC	[redacted]	ZP	ZEPHYR/M	C/F	A3	27-Jul-09	345160	7V01	V29	E29	X2		CHECK WI	C145 CE 2 L2JAR609 C/N5
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	26-Aug-09	152482	2.00E+03	V29	E29		42	CUSTOME	VERIFIED. P0HAR110 C/SB
2010	3FADP0L3	[redacted]	DE	FUSION	C/A	A3	25-Mar-09	171430	2G01	V29	E29		42	ENGINE LI	CK EEC S` P0LAR101 C/S3
2010@	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	11-Apr-09	116221	2.00E+03	V29	E29		42	CUSTOME	CHECKED P0HAR110 C/SB
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	7-Apr-09	172729	2G04	V29	E29		82	E29 CUST	314 DIAG. P0HAR115 C/SB
2010	3MEHM0J(	[redacted]	ML	MILAN	C/A	A3	13-Jun-09	342248	2G01	V52	D42		42	TOWED IN	SELF TES` M0JAR601 C/SG
2010	3MEHM0J(	[redacted]	ML	MILAN	C/A	A3	13-Jun-09	342248	2G01	V52	D42		42	TOWED IN	SELF TES` M0JAR601 C/SG
2010	3FADP0L3	[redacted]	DE	FUSION	C/A	A3	25-Mar-09	171430	2G01	V29	E29		42	ENGINE LI	CK EEC S` P0LAR101 C/S3
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	3-Aug-09	172201	2.00E+03	V44	D50		42	C S ENGIN	CHECK O/ P0HAR112 C/SB
2010@	3FAHP0JG	[redacted]	DE	FUSION	C/A	A3	30-Sep-09	148617	2G01	V29	E29		42	WRENCH	EEC TEST P0JAR110 C/SG
2010@	3FAHP0JG	[redacted]	DE	FUSION	C/A	A3		147020	2.00E+03	V29	E29		28	CHECK EN	15 42, 9E9 P0JAR107 C/SG
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	7-Apr-09	172729	2G04	V29	E29		82	E29 CUST	314 DIAG. P0HAR115 C/SB
2010	3FAHP0JA	[redacted]	DE	FUSION	C/A	A3	1-Apr-09	148112	2G01	V52	D02		42	WILL NOT	DIAG. U03 P0JAR109 C/SB
2010	3FADP0L3	[redacted]	DE	FUSION	C/A	A3	25-Mar-09	171430	2G01	V29	E29		42	ENGINE LI	CK EEC S` P0LAR101 C/S3
2010@	3FAHP0JG	[redacted]	DE	FUSION	C/A	A3	30-Sep-09	148617	2G01	V29	E29		42	WRENCH	EEC TEST P0JAR110 C/SG
2010	3FAHP0H/	[redacted]	DE	FUSION	C/A	A3	8-Apr-09	172350	2.00E+03	V29	E29		42	CHECK EN	EEC TEST P0HAR114 C/SB

Engine Des	Mileage	DTC Code	DTC Seque	DTC Type	Repair Dat	Production	Part Num E	Part Num E	Part Num Base Desc (Reported)
2.3L-4V DC	314	P2107	4	KOEC	4-Feb-09	5-Jul-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	231	P2107	4	KOEC	7-Jan-09	27-Aug-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	474	P060A	2	KOEC	2-Mar-09	1-Nov-08	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	2102	P060A	4	KOEC	9-Jun-09	4-Feb-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	OSP	OUTSIDE PART
2.3L-4V DC	256	P0600	1	KOEC	23-Jan-09	12-Dec-08	DIAG	DIAG	DIAGNOSIS
3.0L 4V OH	926	P0600	2	KOEC	14-Jan-09	31-Oct-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	231	P0600	1	KOEC	7-Jan-09	27-Aug-08	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	2455	P2107	3	KOEC	26-Jan-09	19-Sep-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	6222	P2107	5	KOEC	10-Aug-09	6-Nov-08	14401	14401	WIRE ASY MAIN LOOM
2.3L-4V DC	16044	P2107	4	KOEC	24-Sep-09	1-Aug-08	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	1035	P060A	3	KOEC	13-Jul-09	25-Mar-09	12A650	9E926	BODY ASY-AIR CHARGE
3.0L 4V OH	917	P060A	2	KOEC	8-Sep-09	21-Jul-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	12A650	PROCESSOR ASSY
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	########	GASKET EXHAUST
2.3L-4V DC	3	P0600	1	KOEC	18-Feb-09	3-Nov-08	12A659	12A659	EEC BRACKET
3.0L 4V OH	975	P0600	2	KOEC	23-Apr-09	4-Feb-09	DIAG	DIAG	DIAGNOSIS
3.0L 4V OH	2102	P0600	1	KOEC	9-Jun-09	4-Feb-09	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	6222	P0600	1	KOEC	10-Aug-09	6-Nov-08	14401	14401	WIRE ASY MAIN LOOM
2.3L-4V DC	16044	P0600	1	KOEC	24-Sep-09	1-Aug-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	3047	P2107	2	KOEC	16-Jan-09	25-Jun-08	9E926	9E926	BODY ASY-AIR CHARGE
3.0L 4V OH	926	P060A	3	KOEC	14-Jan-09	31-Oct-08	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	12B579	SENSOR EEC MASS AIR
2.5L DOHC	7060	P0600	1	KOEC	5-Feb-09	25-Jul-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	1241	P0600	1	KOEC	16-Jan-09	26-Nov-08	12A650	W705306	
2.5L DOHC	1035	P0600	1	KOEC	13-Jul-09	25-Mar-09	12A650	9E926	BODY ASY-AIR CHARGE
3.0L DOHC	1241	P2107	3	KOEC	16-Jan-09	26-Nov-08	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	611	P2107	1	KOEC	12-Feb-09	25-Sep-08	12A650	9E926	BODY ASY-AIR CHARGE
2.3L-4V DC	6389	P2107	3	KOEC	5-Aug-09	18-Dec-08	9E926	9E926	BODY ASY-AIR CHARGE
2.3L-4V DC	2	P060A	4	KOEC	30-Dec-08	13-Dec-08	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	7060	P060A	2	KOEC	5-Feb-09	25-Jul-08	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	18540	P060A	3	KOEC	17-Jul-09	20-Nov-08	RECAL	RECAL	ECC PROCESSOR RECAL
2.3L-4V DC	237	P0600	1	KOEC	28-Oct-08	12-Sep-08	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	314	P0600	1	KOEC	4-Feb-09	5-Jul-08	12A650	12A650	PROCESSOR ASSY
3.5L 4V DC	74	P2107	4	KOEC	23-Dec-08	30-Sep-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	586	P2107	4	KOEC	12-Feb-09	7-Aug-08	12A650	12A650	PROCESSOR ASSY

2.3L-4V DC	1156	P2107	3	KOEC	29-Apr-09	26-Aug-08	12A650	9E926	BODY ASY-AIR CHARGE
3.0L 4V OH	71	P060A	2	KOEC	1-Jun-09	15-Apr-09	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	2102	P060A	4	KOEC	9-Jun-09	4-Feb-09	12A650	OSP	OUTSIDE PART
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	########	CONVERTER CATALYTIC
2.3L-4V DC	1156	P2107	3	KOEC	29-Apr-09	26-Aug-08	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	1035	P060A	3	KOEC	13-Jul-09	25-Mar-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	9F472	SENSOR EXHAUST GAS
2.5L DOHC	1133	P0600	1	KOEC	9-Mar-09	3-Feb-09	12A650	9E926	BODY ASY-AIR CHARGE
2.5L DOHC	1133	P0600	1	KOEC	9-Mar-09	3-Feb-09	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	73	P0600	1	KOEC	11-Jun-09	25-Nov-08	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	6389	P0600	5	KOEC	5-Aug-09	18-Dec-08	9E926	9E926	BODY ASY-AIR CHARGE
2.3L-4V DC	256	P2107	5	KOEC	23-Jan-09	12-Dec-08	DIAG	DIAG	DIAGNOSIS
3.0L DOHC	24787	P2107	2	KOEC	########	3-Sep-08	14S411	14S411	KIT-WIRING PIGTAIL
3.0L 4V OH	186	P060A	2	KOEC	11-Jun-09	20-Mar-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	286	P0600	3	KOEC	17-Oct-08	12-Sep-08	########	32Y	SPARK PLUGS
2.3L-4V DC	237	P0600	1	KOEC	28-Oct-08	12-Sep-08	12A650	OSP	OUTSIDE PART
2.3L-4V DC	2	P0600	1	KOEC	30-Dec-08	13-Dec-08	12A650	12A650	PROCESSOR ASSY
3.5L 4V DC	74	P0600	1	KOEC	23-Dec-08	30-Sep-08	12A650	12A650	PROCESSOR ASSY
3.0L DOHC	1241	P0600	1	KOEC	16-Jan-09	26-Nov-08	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	1133	P0600	1	KOEC	9-Mar-09	3-Feb-09	12A650	OSP	OUTSIDE PART
3.0L 4V OH	2102	P0600	1	KOEC	9-Jun-09	4-Feb-09	12A650	OSP	OUTSIDE PART
3.5L 4V DC	3532	P0600	1	KOEC	########	30-Sep-08	RECAL	RECAL	ECC PROCESSOR RECAL
3.0L DOHC	1241	P2107	3	KOEC	16-Jan-09	26-Nov-08	12A650	W705306	
2.3L-4V DC	611	P2107	1	KOEC	12-Feb-09	25-Sep-08	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	260	P060A	2	KOEC	8-Jun-09	25-Mar-09	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	81	P060A	2	KOEC	1-Aug-09	15-Jul-09	12A650	12A650	PROCESSOR ASSY
2.3L-4V DC	2455	P0600	1	KOEC	26-Jan-09	19-Sep-08	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	3471	P0600	1	KOEC	7-Apr-09	6-Nov-08	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	71	P0600	1	KOEC	1-Jun-09	15-Apr-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	260	P0600	1	KOEC	8-Jun-09	25-Mar-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	1035	P0600	1	KOEC	13-Jul-09	25-Mar-09	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	917	P0600	1	KOEC	8-Sep-09	21-Jul-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	3324	P2107	1	KOEC	23-Sep-09	27-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE
2.5L DOHC	1576	P2107	1	KOEC	29-Sep-09	23-Mar-09	14401	14401	WIRE ASY MAIN LOOM
2.5L DOHC	2057	P2107	1	KOEC	23-Apr-09	13-Mar-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	9402	P2107	2	KOEC	8-Jul-09	20-Mar-09	12029	12029	COIL ASY-IGNITION
2.5L DOHC	641	P060A	3	KOEC	26-Jun-09	31-Mar-09	14A005	14A005	WIRE ASY MAIN LOOM

ATK-CYC 2	1825	P060A	1	KOEC	29-Apr-09	14-Feb-09	RECAL	RECAL	ECC PROCESSOR RECAL
ATK-CYC 2	493	P0600	5	KOEC	6-Apr-09	20-Feb-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	2466	P0600	1	KOEC	4-May-09	10-Mar-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	900	P0600	1	KOEC	17-Sep-09	6-Aug-09	18801	18801	CAP ASY RAD IGN
2.5L DOHC	2057	P2107	1	KOEC	23-Apr-09	13-Mar-09	12A650	OSP	OUTSIDE PART
3.0L 4V OH	2	P2107	1	KOEC	########	18-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE
2.5L DOHC	1179	P2107	1	KOEC	15-Sep-09	23-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE
2.5L DOHC	40	P060A	2	KOEC	4-Apr-09	12-Mar-09	12A581	12A581	WIRING ASSY EEC SENS
2.5L DOHC	40	P0600	1	KOEC	4-Apr-09	12-Mar-09	12A581	12A581	WIRING ASSY EEC SENS
3.0L 4V OH	531	P2107	1	KOEC	24-Jun-09	9-Mar-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	1916	P2107	1	KOEC	20-Apr-09	13-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE
2.5L DOHC	7279	P2107	1	KOEC	8-Jul-09	13-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE
3.5L 4V DC	392	P2107	1	KOEC	3-Aug-09	18-Apr-09	12A581	12A581	WIRING ASSY EEC SENS
2.5L DOHC	1179	P2107	1	KOEC	15-Sep-09	23-Mar-09	9E926	9E936	GSKT AIR CHARGE CNTL
ATK-CYC 2	493	P060A	8	KOEC	6-Apr-09	20-Feb-09	12A650	12A650	PROCESSOR ASSY
2.5L DOHC	3324	P2107	1	KOEC	23-Sep-09	27-Mar-09	9E926	14S411	KIT-WIRING PIGTAIL
2.5L DOHC	312	P0600	1	KOEC	1-May-09	23-Mar-09	DIAG	DIAG	DIAGNOSIS
3.0L 4V OH	531	P2107	1	KOEC	24-Jun-09	9-Mar-09	12A650	9E926	BODY ASY-AIR CHARGE
3.0L 4V OH	531	P2107	1	KOEC	24-Jun-09	9-Mar-09	12A650	9E936	GSKT AIR CHARGE CNTL
ATK-CYC 2	493	P060A	8	KOEC	6-Apr-09	20-Feb-09	12A650	OSP	OUTSIDE PART
2.5L DOHC	704	P2107	1	KOEC	15-Aug-09	23-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE
3.0L 4V OH	517	P2107	1	KOEC	3-Jul-09	25-Mar-09	12A650	12A650	PROCESSOR ASSY
3.0L 4V OH	2	P2107	1	KOEC	########	18-Mar-09	9E926	12A650	PROCESSOR ASSY
2.5L DOHC	312	P060A	3	KOEC	1-May-09	23-Mar-09	DIAG	DIAG	DIAGNOSIS
2.5L DOHC	50	P0600	2	KOEC	7-Apr-09	12-Mar-09	12A650	12A650	PROCESSOR ASSY
ATK-CYC 2	493	P0600	5	KOEC	6-Apr-09	20-Feb-09	12A650	OSP	OUTSIDE PART
3.0L 4V OH	517	P2107	1	KOEC	3-Jul-09	25-Mar-09	12A650	9E926	BODY ASY-AIR CHARGE
2.5L DOHC	12532	P2107	2	KOEC	14-Aug-09	24-Mar-09	9E926	9E926	BODY ASY-AIR CHARGE

GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
Redacted for relevance										
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - I
Redacted for relevance										

GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
Redacted for relevance										

GEE Quality Priorities

New - Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components		
Redacted for relevance												
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 -		
Redacted for relevance												

Redacted for relevance

GEE Quality Priorities

New - Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Engr. Approval to Closure Reqd.	Components		
Redacted for relevance												
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - E		
Redacted for relevance												

Redacted for relevance

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
Redacted for relevance											

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
Redacted for relevance											

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
			Breather Cover Plate (6B752) - Oil								

Redacted for relevance

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
Redacted for relevance										
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - I
Redacted for relevance										

GEE Quality Priorities

New - Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
Redacted for relevance										
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - I
Redacted for relevance										

GEE Quality Priorities

New - Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Engr. Approval to Closure Reqd.	Components
Redacted for relevance										
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - E
Redacted for relevance										

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
Redacted for relevance											

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
Redacted for relevance											

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
Redacted for relevance											

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
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2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	J. Hwang			No		9E926 - I
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components

GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
		E150 25%	VCT Solenoid - 4 of 5 TiVCT	2 TNL 2 in transit. Suspects system		what are					

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
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2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi motor high resistance spot ICA: Run in test	J. Hwang	8/20/2012		No		9E926 - E
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Priorities	Yellow: Cut Off Priority	White: Other/New	Blue: New info this week	Green: Clean date planned	Orange: Effective Containment, tracking PCA to complete					
Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Rs / CPU / TGW / Warr Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Components	
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GEE Quality Priorities	Yellow: Cut Off Priority	White: Other/New	Blue: New info this week	Green: Clean date planned	Orange: Effective Containment, tracking PCA to complete					
Engine / Vehicle / (Eng Code)	**Comp. Group / Systems**	**Rs / CPU / TGW / Warr Spend**	**Concern [2012 Early Top 5 R/1000 by Commodity shown]**	**Workstream / BSAQ Project Number**	**Lead**	**Vehicle Clean Date (Defect Free ICA or PCA)**	**P / A**	**Service Action Required / Implmted?**	**Components**	
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2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi high resistance spot, now QSF ICA: Delphi Run in test 7/18	J. Hwang	8/20/2012		TSB drafted for QSF	9E926 -	
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P/A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components		
Redacted for relevance												
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - [redacted]		

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GEE Quality Priorities

New - Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
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2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 -
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GEE Quality Priorities

New - Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Engr. Approval to Closure Reqd.	Components		
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2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot	S. Langley			No		9E926 - E		
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Cc
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix

New Information in Blue	Closed - Monitor in Gray (Show once in DRQ and then move to Closed - Monitor file)	Prioirty to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Sort	Components
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2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot - under investigation	S. Langley			No		1	9E926 - I
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GEE Quality Action Priority Matrix

New Information in Blue	Closed - Monitor in Gray (Show once in DRQ and then move to Closed - Monitor file)	Prioirty to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Sort	Components
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2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot - under investigation	S. Langley			No		1	9E926 - I
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GEE Quality Action Priority Matrix

New Information in Blue	Closed - Monitor in Gray (Show once in DRQ and then move to Closed - Monitor file)	Prioirty to get quickly cut off	Clean date for production

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Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Sort	Components
2.5L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000]	High TIS Issue (>12MIS): Igarashi motor high resistance spot - under investigation	S. Langley			No		1	9E926 - [

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Priorities	Yellow: Cut Off Priority	White: Other/New	Blue: New info this week	Green: Clean date planned	Orange: Effective Containment, tracking PCA to complete				
Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Rs / CPU / TGW / Warr Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Components

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GEE Quality Priorities	Yellow: Cut Off Priority	White: Other/New	Blue: New info this week	Green: Clean date planned	Orange: Effective Containment, tracking PCA to complete					
Engine / Vehicle / (Eng Code)	**Comp. Group / Systems**	**Rs / CPU / TGW / Warr Spend**	**Concern [2012 Early Top 5 R/1000 by Commodity shown]**	**Workstream / BSAQ Project Number**	**Lead**	**Vehicle Clean Date (Defect Free ICA or PCA)**	**P / A**	**Service Action Required / Implmted?**		**Components**
Redacted for relevance										
2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi high resistance spot, now QSF ICA: Delphi Run in test 7/18	J. Hwang	8/20/2012		Potential TSB for repair		9E926 -
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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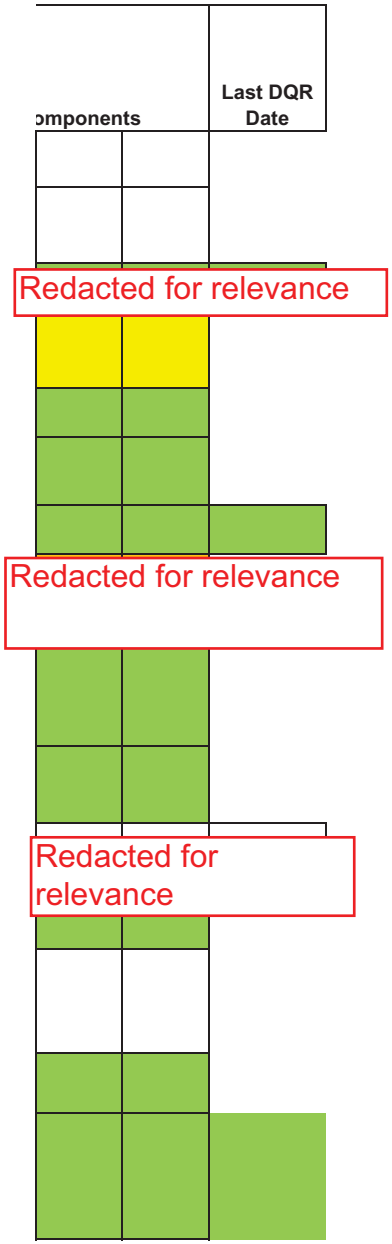

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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]

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New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off

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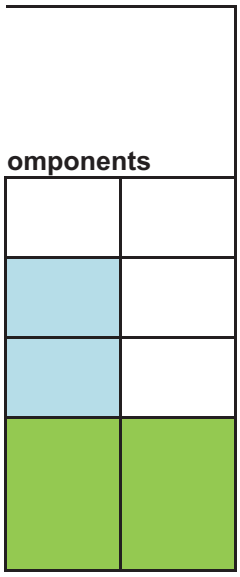
Clean date for production



GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components

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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components		
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2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi high resistance spot, now QSF ICA: Delphi Run in test 7/18	J. Hwang	8/20/2012		No		9E926 -		
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components		
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2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi high resistance spot, now QSF ICA: Delphi Run in test 7/18	J. Hwang	8/20/2012		No		9E926 -		
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components		
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2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi high resistance spot, now QSF ICA: Delphi Run in test 7/18	J. Hwang	8/20/2012		No		9E926 -		
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Cc
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GEE Quality Priorities

Effective Containment but
Tracking PCA to Complete

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New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off

Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Engr. Approval to Closure Reqd.	C

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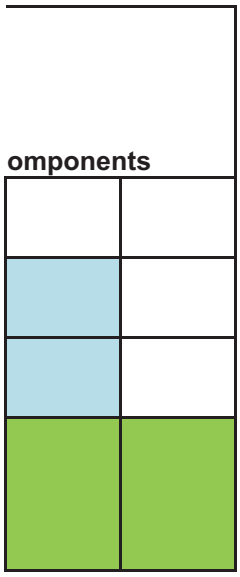
Clean date for production



GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components		
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2.5L, 3.0L Fusion / Escape (C/SB,T/S7)	C	Rs Ws	Throttle Body [Top Rs: 0.14 R/1000], High TIS (>12 MIS)	Igarashi motor high resistance spot ICA: Run in test 7/18 at Delphi	J. Hwang	8/20/2012 moving to orange		No		9E926 -		
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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date (Defect Free ICA or PCA)	P / A	Service Action Required / Implmted?	Chief Engr. Approval to Closure	Components

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Cc

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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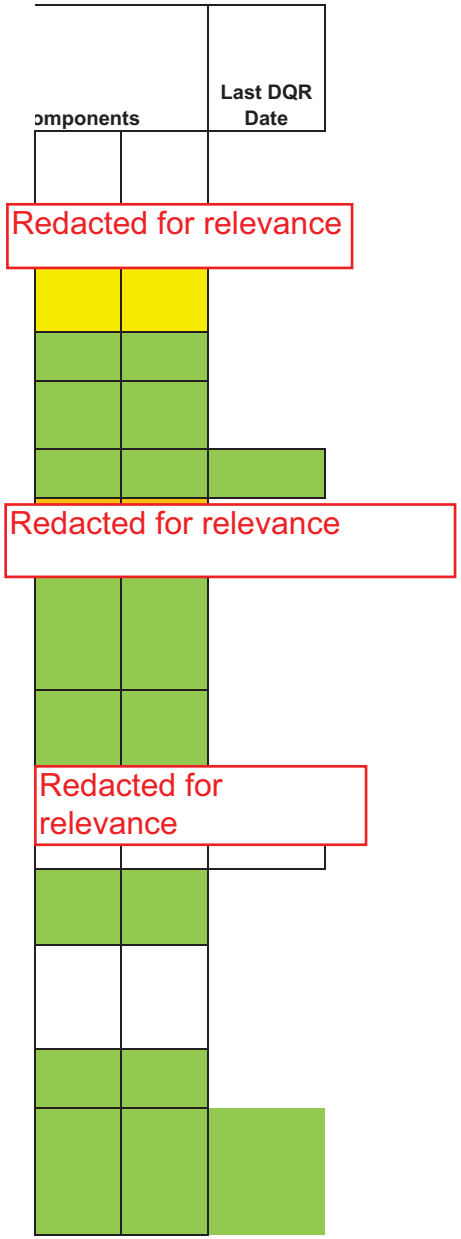

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GEE Quality Priorities

Effective Containment but Tracking PCA to Complete	New Information in Blue	Closed - Monitor in Gray (Show once in FQR then move to Closed - Monitor file)	Priority to get quickly cut off	Clean date for production

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GEE Quality Priorities

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co

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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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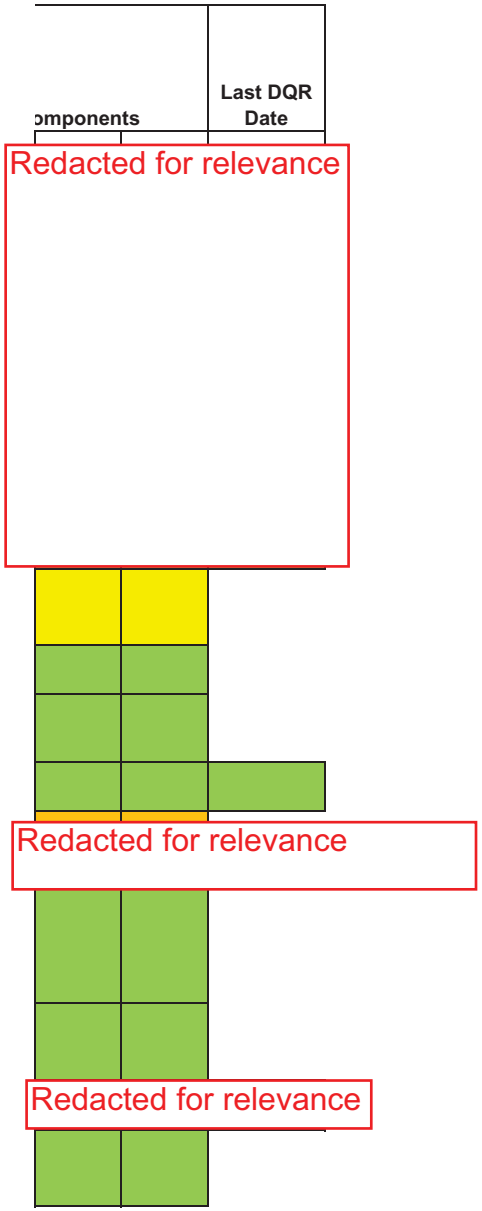

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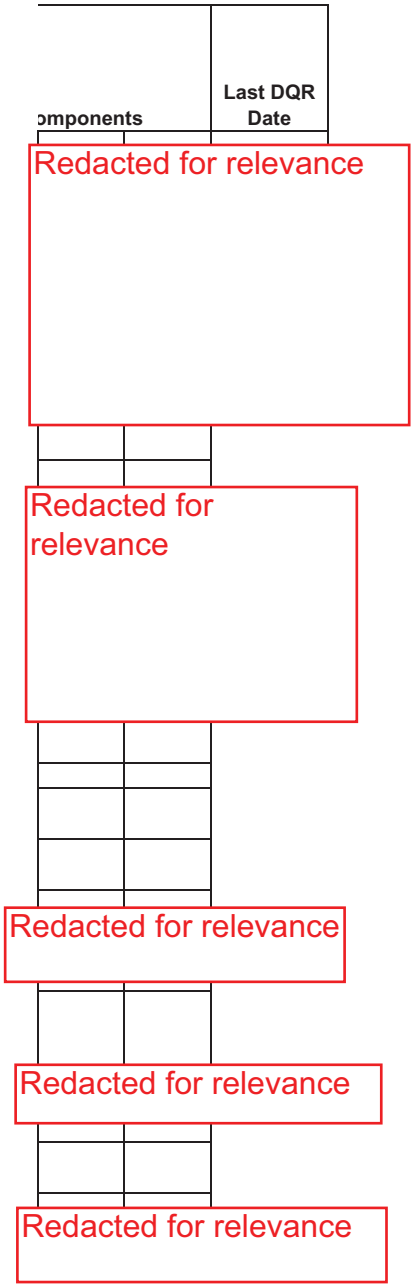

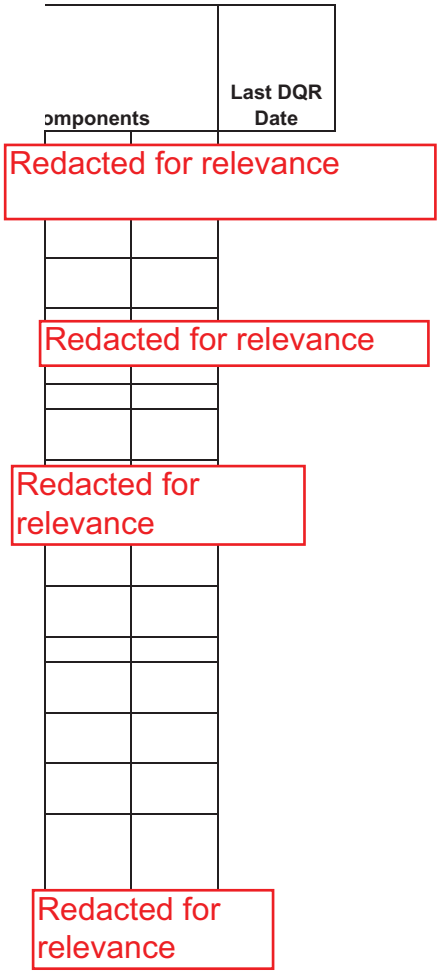

GEE Quality Priorities

Effective Containment but
Tracking PCA to Complete

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]

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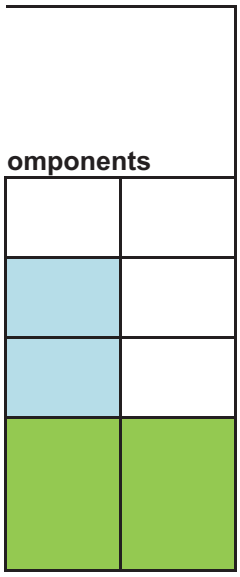
Clean date for production



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GEE Quality Action Priority Matrix: Closed - Monitor

Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern	Workstream / BSAQ Project Number	Lead	Vehicle Clean Date	A/P	Service Action Required / Implmted?	Chief Engr. Approval to Closure Reqd.	Sort	Co
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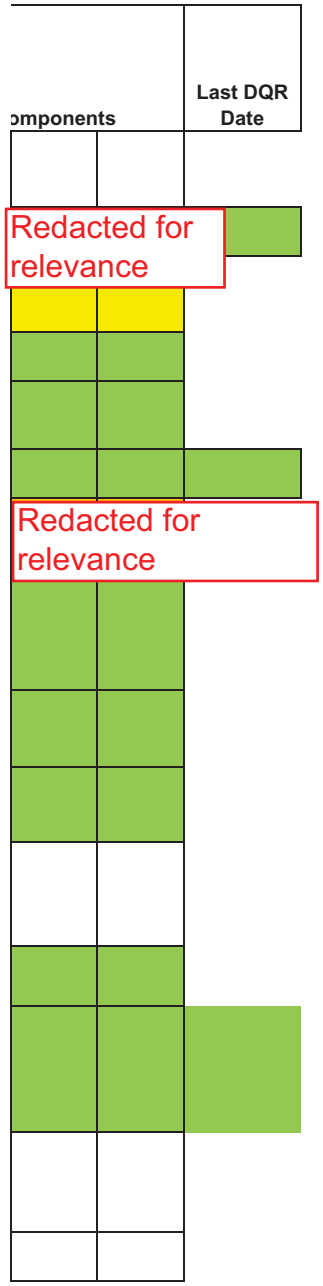

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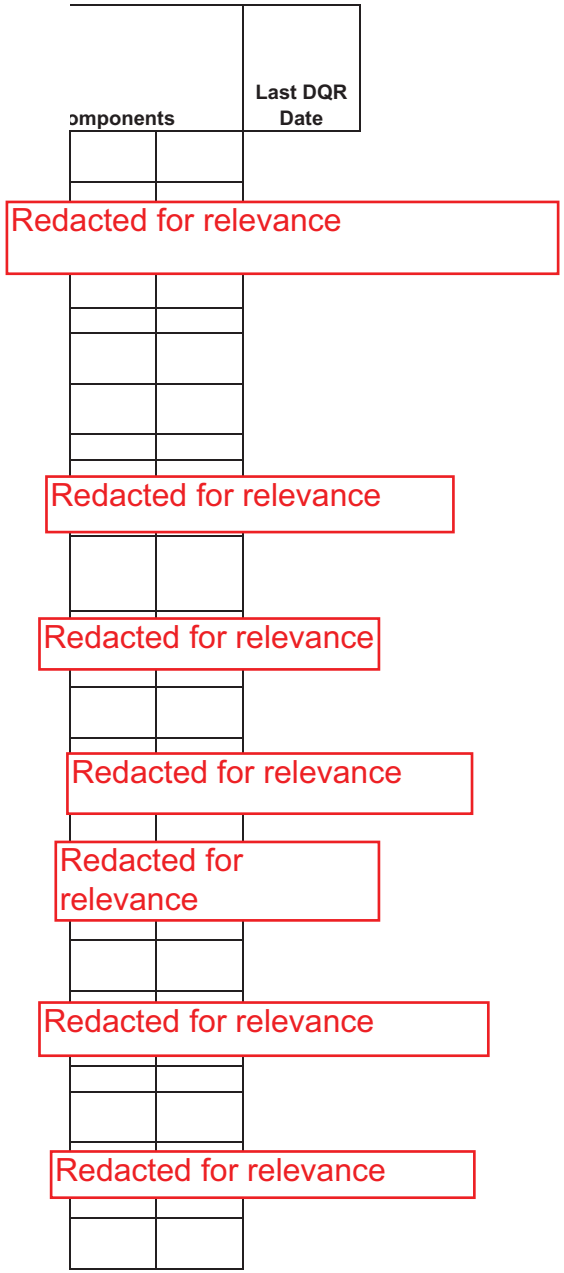

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GEE Quality Priorities

Effective Containment but
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Engine / Vehicle / (Eng Code)	Comp. Group / Systems	Metric: Rs / CPU / TGW / War. Spend	Concern [2012 Early Top 5 R/1000 by Commodity shown]

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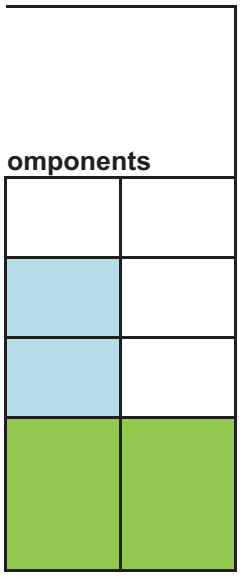
Clean date for production



	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
3		GAS ENGINE	2009-2012	10420120025 10-12MY 2.5/3.0 Escape/Fusion no DTC stall	POW	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**under investigation **SC:**under investigation **PC:**N/A. Out of production vehicles **ST:Dec/6: Next scheduled meeting to discuss diagnostic options 12/6.**	26/Nov/2012	2/Feb/2013	24/Feb/2013	10	3	50	60	TBD GREEN	N/A	Validate Fix (Day25-42)

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Comments Legend
CC = Customer Concern
CA = Cause
SC = Service Correction
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ST = Status

	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 60-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
10		EXPLORER U502	2013-2013	07420120018-Hazard Lamp/Door Ajar Lamp On, Explorer, Taurus, MKS	E	JKRAWIEC - MSTOCKMA - SBUELOW	**CC:**Hazzard lamps and door ajar lamps come on or wont turn off on Explorer, Taurus, & MKS. **CA:**Voltage transients are coupling onto the hood ajar circuit which is destroying the SPDJB Mux chip. **SC:**Looking into moving ground wire to a different location. **PC:**Change coming to wiring harness moving ground to a different	17/Sep/2012	24/Nov/2012	16/Dec/2012	80	2	50	66	TBD RED	21/Dec/2012 RED	Approve/ Publish
11																	
12																	
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 60-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
16							Redacted for relevance										
17																	

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1		GAS ENGINE	2009-2012	10420120025-10-12 Escape/Fusion no DTC stall	POW	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**under investigation **SC:**under investigation **PC:**N/A. Out of production vehicles **ST:**Dec/6: Next scheduled meeting to discuss diagnostic options 12/6.	26/Nov/2012	2/Feb/2013	24/Feb/2013	10	3	50	60	TBD GREEN	N/A	Validate Fix (Day25-42)
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
19	Redacted for relevance																
20																	
21																	
22																	
23																	

Comments Legend
CC = Customer Concern
CA = Cause
SC = Service Correction
PC = Production Correction
ST = Status

	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step

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1		GAS ENGINE	2009-2012	10420120025-10-12 Escape/Fusion no DTC stall	POW	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**under investigation **SC:**under investigation **PC:**N/A. Out of production vehicles **ST:**Dec/6: Next scheduled meeting to discuss diagnostic options 12/6.	26/Nov/2012	2/Feb/2013	24/Feb/2013	10	3	50	60	TBD GREEN	N/A	Validate Fix (Day25-42)
2		Redacted for relevance															
3																	
4																	
5																	

Comments Legend
CC = Customer Concern
CA = Cause
SC = Service Correction
PC = Production Correction
ST = Status

	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
6	Redacted for relevance																
7																	
8																	
9																	

Comments Legend
CC = Customer Concern
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
10		Redacted for relevance															
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12																	
13																	
14																	
15	Closed																

Comments Legend
CC = Customer Concern
CA = Cause
SC = Service Correction
PC = Production Correction
ST = Status

	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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Comments Legend
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GEE North America - **QSF** – April 9, 2013

Concern	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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Redacted for relevance												
10420120025-Prior Fusion/Escape -	RRENWICK - SHWANG - DHARMON3	**CC:**Escape/Fusion - Intermittent difficult to duplicate no DTC drop in RPM. **CA:**Throttle Body. **SC:**Replace throttle body and reflash the PCM. **PC:**N/A. **ST:Apr/4: SSM released to close for service**	26/Nov /2012	2/Feb/2013	24/Feb/2013	**129**	3	50	182	3/Apr/2013 CLOSED	N/A	
Redacted for relevance												

Info, closed

GEE North America - Emerging– April 9, 2013

Concern	Functional Champion-Engineering Contact-PCE	Comments	Emerging Date Open	Days Open	Severity 1-4	QSF Threshold	Report Count	% of QSF Threshold	Emerging Forecast Service Closure Date	Emerging Forecast Production Closure Date	Process Step
Redacted for relevance											

GEE North America - QSF & Emerging – Sept 28, 2012 Dave Graham

Concern	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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10420120020-3.0L; DTC P0012/P0022/P0341/P0346	RWRIGH24 - ASELTHOF - DHARMON3	**CC:**Low mileage DTC P0012/P0022/P0341/P0346. **CA:**under investigation **SC:**Under investigation **PC:**N/A. 2012 Fusion Job last 8/13/12. 2012 Escape Job last 4/09/12. 3.0L engine is not being used anymore. **ST:Sept/27: Root cause still being analyzed. Service Red Due to:**Lack of Forecasted Service closure date	29/Aug/2012	5/Nov/2012	27/Nov/2012	30	3	38	56	TBD RED	N/A	
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Reviewed at Sep 27 Renwick CEDR. Sourcing option to be confirmed by Purchasing.

GEE North America - QSF & Emerging – Sept 28, 2012 Dave Graham

Concern	Functional Champion-Engineering Contact-PCE	Comments	Emerging Date Open	Days Open	Severity 1-4	QSF Threshold	Report Count	% of QSF Threshold	Emerging Forecast Service Closure Date	Emerging Forecast Production Closure Date	Process Step
10420120025-10-12 Escape/Fusion no DTC stall	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**under investigation **SC:**under investigation **PC:**N/A. Out of production vehicles **ST:**9/27: Obtaining parts for analysis. **Service Red Due to:**Exceeding QSF Opening Threshold	26/Sep/2012	2	3	50	83	166%			Access Vehicle/Failed Parts
Redacted for relevance											

New: ETB replacement is resolving, need to confirm root cause & diag, potential TSB

Redacted for relevance

Concern	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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10420120025-2010-12 Escape/Fusion no DTC stall	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**throttle body **SC:**replace throttle body **PC:**N/A. Out of production vehicles **ST:**Jan/10th: TSB submitted 1/8.	26/Nov/201	2/Feb/2013	24/Feb/2013	46	3	50	92	16/Jan/2013		Approve/ sh M (Day 8)
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TSB closing will improve diag. Joe Hwang deep dive Jan 16th FQR

Comments Legend
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ST = Status

Concern	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	GCQIS Report(VIN)	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step

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9		GAS ENGINE	2009-2012	10420120025-10-12 Escape/Fusion no DTC stall	POW	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**throttle body **SC:**replace throttle body **PC:**N/A. Out of production vehicles **ST:**Jan/10th: TSB submitted 1/8.	26/Nov/2012	2/Feb/2013	24/Feb/2013	46	3	50	92	16/Jan/2013 GREEN	N/A	Approve/ Publish TSB/SSM (Day 45-68)

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Comments Legend
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14		GAS ENGINE	2009-2012	10420120025-10-12 Escape/Fusion no DTC stall	POW	RRENWICK - SHWANG - DHARMON3	**CC:**intermittent difficult to duplicate no DTC stall **CA:**throttle body **SC:**replace throttle body **PC:**N/A. Out of production vehicles **ST:**Jan/10th: TSB submitted 1/8.	26/Nov/2012	2/Feb/2013	24/Feb/2013	46	3	50	92	16/Jan/2013 GREEN	N/A	Approve/ Publish TSB/SSM (Day 45-68)
Redacted for relevance																	

Comments Legend
CC = Customer Concern
CA = Cause
SC = Service Correction
PC = Production Correction
ST = Status

	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
1	Redacted for relevance																
1																	
1																	
2																	
2																	

Comme
CC = Customer Concern
CA = Cause
SC = Service Correction
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ST = Status

	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
Redacted for relevance																	

Comments Legend
CC = Customer Concern
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	Status	Vehicle Line	Model Year	Concern	Function	Functional Champion-Engineering Contact-PCE	Comments	QSF Date Open	Req'd 68-day QSF Service Closure Date	Req'd 90-day QSF Production Closure Date	QSF Days Open	Severity 1-4	QSF Threshold	Report Count	QSF Forecast Service Closure Date	QSF Forecast Production Closure Date	Process Step
2	Redacted for relevance																
2																	
2																	
2																	

Comments Legend
CC = Customer Concern
CA = Cause
SC = Service Correction
PC = Production Correction
ST = Status

From: Dixon, Mark (M.R.)
Sent: Tuesday, January 18, 2011 3:40 PM
To: Langley, Scott (C.S.); McDonagh, Scot (S.M.); Boerger, Jim (J.G.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Looks like this is by far our #1 ETC issue since the silicone gasket outgassing fix. Attached are are claims counts.

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:25 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Thanks Scot.

Yes, please… the folks in the CC: line, if that's not too many.
I expect Shapardanis, myself and Soper to take the lead when we do find one, if that makes sense to everyone.

And note, the concern should cover codes P2111 & P2112.
P2112 covers the majority of post 8/3 claims.
P2104 is a symptom… FMEM mode, but wouldn't hurt to include it.
Some claims only list that one.. I assume because they just stopped at first code.
I don't see any P2110 codes in our post 8/3 claims, but wouldn't hurt to include it.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:04 PM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.); Dixon, Mark (M.R.)
Subject: FW: 11MY CD3 P2110-P2111
Importance: High

Any other Engineering contacts you want included in the Find a Vehicle(FAV) request ?

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:03 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I'm familiar with the outgassing TSB. According to AWS data we are seeing ETB replacements on 3.5L >8/3/10 build date in TSB 10-21-6

<< File: 11MY_CD3_ETB-DTCs.xls >>

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Tuesday, January 18, 2011 2:49 PM
To: McDonagh, Scot (S.M.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

Scot,

We already have a TSB to cover some of these issues on 2011 CD3XX. Is there an Specific TGW Built date range that your are looking for?

<< File: tsb10-21-06[1].pdf >>

ETB Gasket Failure.

Regards,

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(91-313)322-7062)

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 2:42 PM
To: Chacon, Jose (A.)

Cc: Oyafuso, Kevin (K.G.)
Subject: 11MY CD3 P2110-P2111
Importance: High

Hi Jose- Need to initiate an FAV for 2011MY CD3 3.5L with DTC P2110 And/Or P2111. ETB returns to date are TNI/NPF. Engineering management would like to investigate further. Please route the FAV to Kevin Oyafuso. Let me know if you need more detail. Thanks

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

Top ETC Codes Since Aug Prod

			2011					2011 Total
DTC Code	DTC Description	Vehicle Line WERS [VL] Desc	2010-08	2010-09	2010-10	2010-11	2010-12	
P2112	THROTTLE	FUSION/MILAN/MKZ (ZEPHYR) [06-11]	8	8	7	4	1	28
		ESCAPE/TRIBUTE/MARINER-LHD [07-11]		1		1		2
		Redacted for relevance				2		2
					1			1
	THROTTLE ACTUATOR CONTROL SYSTEM - STUCK		8	9	8	7	1	33
P2104	THROTTLE	FUSION/MILAN/MKZ (ZEPHYR) [06-11]	7	7	8	3	1	26
		Redacted for relevance	1					1
			2					2
	THROTTLE ACTUATOR CONTROL SYSTEM - FORCE		10	7	8	3	1	29
P2111	THROTTLE	FUSION/MILAN/MKZ (ZEPHYR) [06-11]	3			3		6
		ESCAPE/TRIBUTE/MARINER-LHD [07-11]	3	2				5
		Redacted for relevance	1	1		2		4
					1			1
			1		1			2
			1		1			2
				1	1			2
				1				1
	THROTTLE ACTUATOR CONTROL SYSTEM - STUCK		9	5	4	5		23

From: Chabon, Michael (W.)
Sent: Thursday, January 20, 2011 2:25 PM
To: Chabon, Michael (W.); Langley, Scott (C.S.); McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Oyafuso, Kevin (K.G.)
Subject: RE: 7T4E ETC SYSTEM COMPARSION MATRIX DRAFT

Updated for our kickoff today.

Michael W. Chabon

Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Chabon, Michael (W.)
Sent: Wednesday, January 19, 2011 11:09 AM
To: Langley, Scott (C.S.); McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Oyafuso, Kevin (K.G.)
Subject: 7T4E ETC SYSTEM COMPARSION MATRIX DRAFT

Team, please find attached a draft of the system comparison matrix for our ongoing investigation, please fill out as much as you know (and add as necessary) and we will consolidate in our kickoff meeting, thanks.

<< File: 7T4E ETB SYSTEM COMPS.xls >>

Michael W. Chabon

Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:40 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.); Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I just spoke with Scot… Kevin Oyafuso will be lead contact to the dealers as he's familiar with stepping dealers through pulling ETC FF data.
Please don't make separate inquiries to the dealer.

I will set up a meeting cadence to review our approach on these vehicles and to review any data.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Langley, Scott (C.S.)
Sent: Tuesday, January 18, 2011 3:25 PM
To: McDonagh, Scot (S.M.); Boerger, Jim (J.G.); Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Davis, Andrae (A.L.); Pulay, Kirk (K.); Wilson, David (D.G.); Soper, Todd (R.); Sims, Ivan (I.D.); Hall, Brent (A.); Chabon, Michael (W.)
Subject: RE: 11MY CD3 P2110-P2111

Thanks Scot.

Yes, please… the folks in the CC: line, if that's not too many.
I expect Shapardanis, myself and Soper to take the lead when we do find one, if that makes sense to everyone.

And note, the concern should cover codes P2111 & P2112.
P2112 covers the majority of post 8/3 claims.
P2104 is a symptom… FMEM mode, but wouldn't hurt to include it.
Some claims only list that one.. I assume because they just stopped at first code.
I don't see any P2110 codes in our post 8/3 claims, but wouldn't hurt to include it.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:04 PM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.); Dixon, Mark (M.R.)
Subject: FW: 11MY CD3 P2110-P2111
Importance: High

Any other Engineering contacts you want included in the Find a Vehicle(FAV) request ?

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 3:03 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

I'm familiar with the outgassing TSB. According to AWS data we are seeing ETB replacements on 3.5L >8/3/10 build date in TSB 10-21-6

<< File: 11MY_CD3_ETB-DTCs.xls >>

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

From: Chacon, Jose (A.)
Sent: Tuesday, January 18, 2011 2:49 PM
To: McDonagh, Scot (S.M.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: 11MY CD3 P2110-P2111

Scot,

We already have a TSB to cover some of these issues on 2011 CD3XX. Is there an Specific TGW Built date range that your are looking for?

<< File: tsb10-21-06[1].pdf >>

ETB Gasket Failure.

Regards,

José Chacón
Product Concern Engineer
Fusion/Milan/Zephyr/MKZ
Ford Customer Service Division
(91-313)322-7062)

From: McDonagh, Scot (S.M.)
Sent: Tuesday, January 18, 2011 2:42 PM
To: Chacon, Jose (A.)
Cc: Oyafuso, Kevin (K.G.)

Subject: 11MY CD3 P2110-P2111
Importance: High

Hi Jose- Need to initiate an FAV for 2011MY CD3 3.5L with DTC P2110 And/Or P2111. ETB returns to date are TNI/NPF. Engineering management would like to investigate further. Please route the FAV to Kevin Oyafuso. Let me know if you need more detail. Thanks

Scot G. McDonagh
PT Quality Engineering
Phone: (313)337-8091
smcdonag@ford.com

	Engine Plant	Lima Engine						Romeo Engine		
	Displacement	3.5L iVCT				3.7L iVCT		4.6L 2V		
	VO Plant	RFR	HSAP	HSAP	Redacted for relevance					
SUBSYSTEM			FUSION	MKZ						
ETB End Item			7T4E-9F991-GA	7T4E-9F991-GA						
1 & 3 MIS R/1000										
PEDAL SUPPLIER/PN			KSR 3-trk contacting	KSR 3-trk contacting						
MAF SUPPLIER/PN										
TPS SUPPLIER/PN			KSR/??	KSR/??						
TPPC			GEN 2.0/6DEG	GEN 2.0/6DEG						
PCM LOCATION										
PCM SUPPLIER/PN										
PS CONNECTOR SUPPLIER/PN										
HARNESS SUPPLIER/PN		RFR	LEAR/??	LEAR/??	Redacted for relevance					
ORQUE SENSOR SUPPLIER/PN										
TRANSMISSION CAL										
TRANSMISSION										
VREF LINE SHARING										
EMC COUPLING CONCERNS										
DIFFERENCE										
The pedals aren't exactly the same and how similar they are depends on the engine (IVCT vs. TIVCT).										
		CD3 3.5L --- KSR 3-trk contacting								
		RFR	KSR 2-trk non-contacting							
			- KSR 3-trk contacting							
The different 3-trk contacting pedals are similar, but different due to different vehicle packaging.										
If 2-trk vs. 3-trk, your dealing with a completely different control system in addition to the pedal differences										
				Program			**ETC SW**	**Stuck throttle threshold**		
			3.5L CD338/ CD378				Gen 2.0	6 deg		
				RFR			Gen 2.0	6 deg		
							Gen 2.0	6 deg		

From: McCoy, Jim (D.)
To: Dixon, Mark (M.R.); Langley, Scott (C.S.)
Cc: Pulay, Kirk (K.); Misangyi, Pete (P.W.); Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ
Date: Wednesday, January 19, 2011 11:10:36 AM

Depending on the PCM, some of the pedal and TP circuit VREF's are tied to the same point internal to the PCM at the voltage regulator output, (as is the case with the Bosch CY317 and CY320).

From: Dixon, Mark (M.R.)
Sent: Wednesday, January 19, 2011 11:04 AM
To: Langley, Scott (C.S.); McCoy, Jim (D.)
Cc: Pulay, Kirk (K.); Misangyi, Pete (P.W.); Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ

Scott, you're correct as I recall. They do share a Vref. Jim, pls confirm.

RFR was my shorthand for RFR

From: Langley, Scott (C.S.)
Sent: Wednesday, January 19, 2011 9:48 AM
To: Dixon, Mark (M.R.)
Cc: Pulay, Kirk (K.); Misangyi, Pete (P.W.); Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ

Thanks Mark!
I believe they do share VREF though, don't they?

When you say RFR VCT, I assume that includes RFR

Note that Kirk has forwarded some information on this subject to Kelly Arbanas on Pete's team.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Dixon, Mark (M.R.)
Sent: Wednesday, January 19, 2011 9:13 AM
To: Langley, Scott (C.S.)
Subject: FW: P2111/2 DTC on 3.5l Fusion/MKZ

Scott, might want to past this into any 6 panel you are putting together. I don't think the pedel application plays in setting of stuck throttle DTC (need to confirm this with Misangyi's team), but good to get this information saved somewhere.

From: Dressing, Thomas (T.G.)
Sent: Wednesday, January 19, 2011 9:10 AM
To: Dixon, Mark (M.R.); Misangyi, Pete (P.W.)
Cc: Oyafuso, Kevin (K.G.)
Subject: RE: P2111/2 DTC on 3.5l Fusion/MKZ

The pedals aren't exactly the same and how similar they are depends on the engine (IVCT vs. TIVCT).

CD3 3.5L --- KSR 3-trk contacting
RFR - KSR 2-trk non-contacting
KSR 3-trk contacting

The different 3-trk contacting pedals are similar, but different due to different vehicle packaging.

If 2-trk vs. 3-trk, your dealing with a completely different control system in addition to the pedal differences.

Regards,
Tom Dressing
e-mail: tdressin@ford.com, Phone: 313-805-5803

From: Dixon, Mark (M.R.)
Sent: Wednesday, January 19, 2011 7:48 AM
To: Misangyi, Pete (P.W.); Dressing, Thomas (T.G.)
Cc: Oyafuso, Kevin (K.G.)
Subject: FW: P2111/2 DTC on 3.5l Fusion/MKZ

Pete, who from your team should we include in the review of this "stuck throttle" DTC concern that appears to be impacting the 3.5L CD much more that similar PT on RFR

Tom, are different pedals used on the 3.5L CD vs 3.5L RFR applications?

From: Langley, Scott (C.S.)
Sent: Friday, January 14, 2011 5:41 PM
To: Dixon, Mark (M.R.)
Cc: Shapardanis, Michael (M.S.); Wilson, David (D.G.); Soper, Todd (R.); Davis, Andrae (A.L.); Chabon, Michael (W.); Pulay, Kirk (K.)

Subject: P2111/2 DTC on 3.5l Fusion/MKZ

Mark,
Perhaps Dave and Todd have already approached you on this...
We have a number of claims binned as ETB causal for the subject DTC & application which occur after our clean date (8/3/2010) for our known silicone gasket outgassing issue.

While the same throttle is utilized on the naturally aspirated Redacted for relevance
RFR, the claims are occurring disproportionately on 3.5l Fusion/MKZ.

Is there anything going on with that application with respect to calibration/controls issues?
Are there any differences in calibration, controls or hardware that might explain the difference in performance from Fusion/MKZ vs RFR ?

> Kirk already looked into the versions of ETC.
> I'm thinking transmission control or similar?
> Or, pedal Hardware?

We appreciate any guidance you can provide.

Sincerely,
Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

Folder Report Listing

Folder Number : 110065630 [redacted] 84760000

MODEL YEAR	V	[redacted]	BUILD DATE	REPORT DATE	ODOMETER	REPORT NUMBER	BODY MODEL DESC	ENGINE DESC	EXISTS IN OTHER FOLDERS	REPAIR
2011	3FAHP0JG9		10/13/2010	01/10/2012	654	CAJB6009	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	Repeat Repair
2011	3FAHP0JG7		10/12/2010	01/06/2012	20598	CAFE7008	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2011	3FAHP0JG6		05/05/2011	12/21/2011	2853	BLUDP006	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	Throttle Body
2011	3FAHP0CG7		01/05/2011	12/19/2011	26379	BLSEE004	SEL AWD,4 DOOR	3.0L 4V	No	Repeat Repair
2011	3FAHP0JG9		01/12/2011	12/09/2011	3156	BLIAX015	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	Purge Valve
2011	3MEHM0JG		09/10/2010	11/10/2011	20091	BKJA4002	PREMIER,4 DOOR	3.0L 4V	No	Throttle Body and Purge Valve
2011	3FAHP0JG1		08/13/2010	11/08/2011	7980	BKHDV010	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	Purge Valve
2011	3FAHP0JG4		03/15/2011	11/02/2011	7293	BKBCB002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	Purge Valve
2011	3FAHP0HG2		05/18/2011	10/28/2011	8137	BJ2E8005	SE ,4 DOOR ,SEDAN	3.0L 4V	No	None
2011	3FAHP0JG4		05/12/2011	10/28/2011	1387	BJ2D6002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	None
2011	3FAHP0CG6		01/12/2011	10/28/2011	6623	BJ2CJ007	SEL AWD,4 DOOR	3.0L 4V	No	Purge Valve
2011	3FAHP0HG7		03/16/2011	10/25/2011	8789	BJYBW002	SE ,4 DOOR ,SEDAN	3.0L 4V	No	None
2011	3FAHP0JG4		05/24/2011	09/14/2011	3183	BIND2002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	None
2011	3FAHP0HG2		05/24/2011	09/01/2011	5417	BIABM008	SE ,4 DOOR ,SEDAN	3.0L 4V	No	Purge Valve
2011	3FAHP0CG1		09/26/2010	06/11/2011	1967	BFKAA009	SEL AWD,4 DOOR	3.0L 4V	No	None
2011	3FAHP0HG7		03/02/2011	05/27/2011	1641	BE1AO002	SE ,4 DOOR ,SEDAN	3.0L 4V	No	Repeat Repair
2011	3MEHM0JG		08/06/2010	05/13/2011	8574	BEMB9002	PREMIER,4 DOOR	3.0L 4V	No	None
2012	3FAHP0HG6		07/11/2011	04/05/2012	693	CDEGT003	SE ,4 DOOR ,SEDAN	3.0L 4V	No	None
2012	3FAHP0JG0		07/30/2011	04/02/2012	1218	CDBC1027	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	None
2012	3FAHP0JGX		07/01/2011	03/27/2012	9490	CC1FA003	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	None
2012	3FAHP0HG8		02/01/2012	03/26/2012	814	CCZBF015	SE ,4 DOOR ,SEDAN	3.0L 4V	No	None
2012	3FAHP0HG9		10/16/2011	03/12/2012	156	CCLEC004	SE ,4 DOOR ,SEDAN	3.0L 4V	No	None
2012	3FAHP0JG6		10/01/2011	02/29/2012	1994	CB3BH002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2012	3FAHP0JG2		10/10/2011	02/28/2012	3118	CB2GJ002	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	Throttle Body
2012	3FAHP0JG1		11/16/2011	02/02/2012	292	CBBAT014	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2012	3FAHP0HG3		10/11/2011	01/28/2012	2109	CA2AD002	SE ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2012	3FAHP0JG6		09/15/2011	01/26/2012	2682	CAZAL001	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2012	3FAHP0HG9		08/17/2011	12/22/2011	2474	BLVE4004	SE ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2012	3FAHP0CG8		09/12/2011	12/20/2011	2599	BLTC5002	SEL AWD,4 DOOR	3.0L 4V	No	NPF
2012	3FAHP0CG7		11/12/2011	12/03/2011	185	BLCAC010	SEL AWD,4 DOOR	3.0L 4V	No	Cleaned MAF
2012	3FAHP0JG6		09/24/2011	11/30/2011	284	BK4EO001	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	NPF
2012	3FAHP0JG2		09/15/2011	10/26/2011	341	BJZEH001	SEL ,4 DOOR ,SEDAN	3.0L 4V	No	None
								Report Count:	32	

From: Bos, Ed (E.A.)
Sent: Tuesday, July 28, 2009 10:24 AM
To: Chabon, Michael (W.); Langley, Scott (C.S.); Hall, Brent (A.); Parkinson, Tim (T.M.)
Subject: Short Summary of Salicide Layer (another defect at Melexis found during high speed screening test)

The term **salicide** refers to a technology used in the microelectronics industry used to form electrical contacts between the semiconductor device and the supporting interconnect structure. The salicide process involves the reaction of a thin metal film with silicon in the active regions of the device, ultimately forming a metal silicide contact through a series of annealing and/or etch processes. The term "**salicide**" is a compaction of the phrase **s**elf-**a**ligned si**licide**. The description "self-aligned" suggests that the contact formation does not require lithographic patterning processes, as opposed to a non-aligned technology such as polycide. The term salicide is also used to refer to the metal silicide formed by the contact formation process, such as "titanium salicide", although this usage is inconsistent with accepted naming conventions in chemistry.

[edit] Contact Formation

The salicide process begins with deposition of a thin transition metal layer over fully formed and patterned semiconductor devices (e.g. transistors). The wafer is heated, allowing the transition metal to react with exposed silicon in the active regions of the semiconductor device (e.g., source, drain, gate) forming a low-resistance transition metal silicide. The transition metal does not react with the silicon oxide and or nitride insulators present on the wafer. Following the reaction, any remaining transition metal is removed by chemical etching, leaving silicide contacts in only the active regions of the device. A fully integrable manufacturing process may be more complex, involving additional anneals, surface treatments, or etch processes.

Edward A. Bos
Six Sigma Black Belt
Air-Metering Senior Engineer, Component C, LGDEE
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ebos@ford.com

From: Boerger, Jim (J.G.)
Sent: Friday, August 21, 2009 11:34 AM
To: Renwick, Rick (R.J.); Bushman, Thomas (T.S.); Powers, Ken (K.W.); Durand, Gerardo (G.D.); Galindo, Sergio (S.N.); Urquidi, Ernesto (E.); Loeffler, Eric (E.J.); Shanahan, J D (J D.); Moore, Andrew (R.); Nicholson, Jeff (J.J.); Chabon, Michael (W.); Hall, Brent (A.); Horbal, Colin (C.P.); Parkinson, Tim (T.M.); Langley, Scott (C.S.); Boerger, Jim (J.G.); Hiltz, Dan (D.J.); Makowski, Scott (S.A.); Moore, Andrew (R.); Yalamanchili, Ram (R.); Boerger, Jim (J.G.)
Subject: Update - Stop Ship Alert A12268898: Delphi ETBs (Fusion/Milan/Escape/Mariner)

The following is a consolidated summary of facts surrounding the Delphi throttle body quality issue (updates shown in **blue** font):

- Issue: Contamination introduced at Delphi electronic throttle body (ETB) sub-supplier (CIPSA, Tier 4, located in India). The contamination is encapsulated underneath an electrically conductive material (copper plating on printed circuit board) Upon thermal cycling, an open circuit results in the throttle position sensor (TPS). CIPSA produced a batch of 35,000 suspect components in the June timeframe, which flowed thru the pipeline, entering Ford inventory on June 19. A second batch of approximately 70,000 parts have been produced and are within the pipeline - failures have been observed in both batches of material. Of these two lots of material, 69,528 have been shipped to FMC engine plants.

- Vehicle function: The subject open circuit results in various MIL and non-MIL codes and vehicle enters FMEM (pedal follower mode) or limp home mode.

- Impact on Ford: The Delphi (9L8E) ETB is utilized in the 2.5L (Chihuahua Engine Plant) and 3.0L (Cleveland Engine Plant), impacting Kansas City (Escape, Mariner, and HEV) and Hermosillo (CD3 and HEV). A stop ship (Alert A12268898) was issued at both assembly plants for the affected vehicles. (Note: Both impacted vehicle assembly plants and engine plants are not operating until 8/24/2009 due to a previously planned period of downtime)

- Key actions taken:

  - An initial containment plan was enacted - heating the TPS to 125 degrees C and checking for "open circuit". An improved containment process was implemented Sunday PM (20 cycles of thermal cycling from -40C to 125C) with initial improved containment ETB delivery expected to ChEP and CEP on Tuesday evening. This containment option is viable for ETBs that have not yet been assembled with the throttle position sensor.

  - Containment options for ETBs that are presently complete assemblies (returns from engine and assembly plants) were reviewed with Delphi Monday evening. A tamperproof feature of the TPS prevents reprogramming of the TPS after thermal cycling and re-assembly. Initial reworked "full" ETBs (652 parts) will be evaluated Thursday AM for OK to ship. A second series of ETBs are being reworked in parallel, and a now undergoing thermal cycling (additional 896 pcs). This second re-work process was **approved** Thursday PM and initial shipment of 1344 on Friday.

  - Initiated high-mileage durability assessment Friday PM - 1000 pieces of TPS are being thermal cycled from -40 to +125 C to simulate time-in-service
  - Failure rate during this accelerated test estimated at 9 R/1000 (plan to continue test to monitor fall-out - majority of failures occurred prior to 10 thermal cycles with one additional failure occurring at cycle # 40). This durability test on-hold to permit additional thermal chamber capacity for 2nd rework process (above) and will resume at a TBA later date.

  - CIPSA (Tier 4 supplier) has commenced to initiate re-filling the "pipeline" with clean stock - 6000 circuit boards were shipped to Tier 3 (Avalon on Wednesday) and will transfer to Tier 2 (Igarushi) on Thursday. Both Delphi STA and Ford STA teams are on-site during this initial pipeline fill. Initial quantity of clean stock has been produced at Igarushi (~1400 pcs) to ship to Delphi on Friday, 8/21.
  - We are pursuing additional capacity opportunities with Delphi-Juarez and sub-tier suppliers to increase daily capacity from 2,000/day to 2,500/day. This will provide additional capacity through Delphi to relieve their required 7-day operating pattern that has been historically incurred. Functional tryout parts (504)

completed at Igarushi to ship to Delphi on Friday, 8/21 (shipment confirmation pending).

- Engine and assembly plant logistics personnel (MP&L) have reviewed Delphi containment delivery plans for compatibility with vehicle build schedules - this following plan has been developed:
  - Delphi began shipping certified throttle bodies yesterday to HSAP and KCAP to retrofit all 2,068 and 4,079 engines, respectively each plant. Retrofit will be complete prior to Monday startup.
    - *HSAP and KCAP will be covered with clean engines starting Monday, 8/24* - rework plan is on track.

  - Delphi has initiated shipments of certified parts to ChEP and CEP
    - *CEP and ChEP will begin production with clean throttle bodies at startup on Monday, 8/24 and Tuesday, 8/25, respectively* - on track

  - All suspect throttle bodies in the pipeline (in front of engine and vehicle plants) have been returned to Delphi for certification, under approved alert.

  - Delphi rate and flow plan is confirmed to support all foreseeable engine plant releases in the system, and vehicle plant requirements - this plan is being reviewed daily - on track

  - Built vehicles with suspect throttle bodies are on hold, 2,126 at KCAP and ~600 at HSAP, under this stop ship. KCAP & HSAP have initiated certification of vehicles using hot idle and soak test (approx 3 repetitions of 45 minute hot idle and soak per vehicle - 0 miles). Vehicles will be released upon successful completion of this hot idle and soak test (HSAP has completed certification of all vehicles on-site and KCAP has completed 1244 vehicles).

- Meeting cadence: 24 X 7 work plan with twice daily meeting schedule (scheduled based upon critical decision points) - full team meeting cadence reduced to once per day to monitor plan execution.
  - Next meeting: Saturday (8/22) at 12:00 PM EST

- Next Update: Sunday (8/23) or sooner if the situation dictates

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ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Sant, David W <david.w.sant@delphi.com>
Sent: Thursday, September 22, 2011 10:46 AM
To: Velazquez, Israel; Delgado, Diana
Cc: Langley, Scott (C.S.)
Subject: Urgent Request - Gen-6 ETB Warranty
Attachments: VIN-Serial Table.xls

Israel -

John Rose has recently shipped 28 Gen-6 ETB's to SEC (see attached list). All of these ETB's, when entered into the Ford data base, were missing the ETB serial numbers and ETB build dates. Upon receipt, please enter ETB serial number and build date information into our Gen-6 master file. ETB's entered without the serial number and build date information will not show up on the Paynter charts.

Israel and Diana -

Please review all recent Gen-6 returns (including 28 recent returns) and identify those that have an ETB build date of 01-Jan-2011 or later. ETB's that meet this criteria are top priority. During my absence next week, please process as many of these top priority parts as possible. The expectation is to provide Scott Langley and the rest of the Delphi/Ford team with a simple table update as shown below. We will review each case upon my return to determine next steps in the analysis process. Please provide this update by EOD, Wednesday, 28-Sep-2011.

As you are well aware, we are continuing to experience a significant back-log of Gen-6 warranty returns. It is important to try to keep pace with the current ETB return rate. The second tab in the attached file contains this table for your use.

VIN-6	ETB Model	ETB Build Date	DTC Codes	Pass SEC Testing (Y/N)	Pass MTC Initial Testing (Y/N)	Pass MTC Testing After Thermal Cycle (Y/N)	SEC Test Failure Comments	MTC Test Failure Comments

I apologize for adding this extra step to our normal warranty analysis process, however, it is very important for our team to remain informed of analysis status during my absence. Please be sure to keep the Gen-6 master file up-to-date as well.

Thank you!

Dave Sant
Sr. Warranty Engineer
Engine Air Control Valves;
MPFI And GDi Fuel Systems

Address/Contact Info:
Delphi Powertrain Systems
5500 W. Henrietta Road
W. Henrietta, NY 14586
Mail Code: 515

Phone: 585-359-6925
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VIN	[redacted]	ETB Serail#	ETB Build Date
3FAHP0JA1			
1FMCU9C7			
1ZVBP8AM2			
2FMDK3AK			
2FMDK3KC			
1FMHK7F87			
1FMCU92G			
1FMCU92G			
1FMCU9CG			
1ZVBP8EM6			
1FMCU9E78			
1ZVBP8EM8			
4M2CN8H7			
1FMCU9DG			
3FAHP0HA9			
1FMCU9DG			
3FAHP0HA9			
1FMCU0EG			
3FAHP0HAX			
1FMCU0EG			
3FADP0L3X			
3FAHP0HA3			
1FMCU0D7			
3FAHP0HAX			
3FAHP0JAX			
1FMCU0C7			
1FMCU0D7			
1FMCU9EG			

VIN-6	ETB Model	ETB Build Date	DTC Codes	Pass SEC Testing (Y/N)	Pass MTC Initial Testing (Y/N)	Pass MTC Testing After Thermal Cycle (Y/N)

SEC Test Failure Comments	MTC Test Failure Comments

From: Chabon, Michael (W.)
Sent: Saturday, January 23, 2010 7:54 PM
To: Learman, Michael (M.S.); Parkinson, Tim (T.M.); Hall, Brent (A.); Bos, Ed (E.A.)
Subject: Via Hole One-pager Status Summary

Michael W. Chabon

Electronic Throttle Body Engineering Supervisor
Bldg-1 Cube 12B115
Cell/Text /Pager 313-805-8784
Ford Motor Company

From: Langley, Scott (C.S.)
Sent: Saturday, January 23, 2010 5:49 PM
To: Boerger, Jim (J.G.); Horbal, Colin (C.P.)
Cc: Chabon, Michael (W.); Hall, Brent (A.); Schiltges, Dave (D.)
Subject: FW: T Body request

Jim, Colin,
Here's a proposal for our 1-pager summarizing the lower risk of this latest incident compared to the previous.
It includes input from Mike.
Let me know what you think.

If this 1-pager approach doesn't do the trick, we can add to it.
If we want to provide the data itself, it will take a few more minutes to put that in the appropriate format.

Sincerely,

Scott Langley
PD Supervisor - Component C Current Quality
& Rawsonville Resident Engrg - Engine
(Components = Air Metering, Fuel Metering, Ignition, ESMs)
Ford Motor Company - Bldg #1
cell: 313-805-8789
email: slangle1@ford.com

From: Horbal, Colin (C.P.)
Sent: Friday, January 22, 2010 7:02 AM
To: Boerger, Jim (J.G.); Langley, Scott (C.S.)
Subject: RE: T Body request

I think Monday is ok as long as it is early in the morning...

Colin Horbal
Manager, LGDEE OPD/Quality Dept
Phone: 313-845-7581
Cell Phone: 313-805-5734
Text Page: chorbal

From: Boerger, Jim (J.G.)
Sent: Friday, January 22, 2010 7:01 AM
To: Langley, Scott (C.S.)
Cc: Horbal, Colin (C.P.)
Subject: FW: T Body request

Scott - please send draft to Colin and I for review before forwarding to KCAP - let's make a favorable impression of the recommendation … thanks, Jim

PS: I'll be out of the office until Monday - if needed before then, pls review with Colin (Colin - is Monday OK for submission?)

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ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Boerger, Jim (J.G.)
Sent: Friday, January 22, 2010 6:35 AM
To: Horbal, Colin (C.P.)
Cc: Schiltges, Dave (D.); Langley, Scott (C.S.); Chabon, Michael (W.)
Subject: RE: T Body request

Scott - can you provide a brief summary of our risk assessment? Thanks, Jim

Jim Boerger
Manager - Component Design C Department
Large Gas & Diesel Engine Engineering
Dearborn - Building 1 - Room 12B092
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ONE FORD: ONE Plan - ONE Team - ONE Goal

From: Horbal, Colin (C.P.)
Sent: Friday, January 22, 2010 6:09 AM
To: Boerger, Jim (J.G.)
Cc: Schiltges, Dave (D.); Langley, Scott (C.S.); Chabon, Michael (W.)
Subject: FW: T Body request

Jim - Please will you have the guys put soemthing together and send it to Ken/me?

I'll answer the PDQR question.

Thanks!

Colin Horbal
Manager, LGDEE OPD/Quality Dept
Phone: 313-845-7581
Cell Phone: 313-805-5734
Text Page: chorbal

From: Powers, Ken (K.W.)
Sent: Thursday, January 21, 2010 5:04 PM
To: Horbal, Colin (C.P.)
Cc: Bushman, Thomas (T.S.)
Subject: T Body request

Colin, I talked to the plant mgr more about the Throttle Body today. He wants to see the test data that led the team to the conclusion that the risk is low. Can someone put a slide or one-pager together with the data and show comparison to last time?

Also, he asked if this was reviewed in a PDQR or other after the last issue in the field. I assume it was, but can you confirm? Thank you.

Ken Powers, P.E.
Escape/Tribute PVT Mgr - KCAP
(w) 816-459-1729; (c) 816-200-4928

Delphi 9L8E ETB Plant Returns – Jan. 2010

Issue: (2) ETBs confirmed to contain a PCB Via Hole plating defect similar to that of the August '09 Stop Ship #2089 issue.

RETURN SUMMARY:

(1) from ChEP Cold Test & (1) from an HSAP vehicle.

- Both ETB build dates were 12/22/09 & ETB Serial #'s were nine digits apart.
- Both Throttle Position Sensors (TPS's) had a build date of 345/09 = 12/11/09
- Both TPS printed circuit boards (PCBs) are from mother board SN 132.

Why this is of lower risk than the previous incident:

- **19,872 TPSs from the suspect PCB lot have been thermal-cycled for 24 hrs and tested hot with zero failures. Previous incident would have resulted in 50 to 60 failures.**
- **Material cross sections indicate no via hole plating thickness below the 20um minimum. Previous results indicated 8-12um plating was prevalent.**
- **Delphi has confirmed all ICA and process improvements from the previous incident were followed during this PCB lot production.**
- **PCB production data indicates process was capable and in control.**
- **Both defective PCBs are from the same mother board.**

Date Created: 8/28/2006
Date Revised: 4/30/2013