

RQ03-008

FORD

**FORD 12/12/03 LETTER
TO ODI 4 BOOKS**

**ATTACHMENT L
& N (LAST PAGE
IS N)**

**PART 4 OF 4
BOOK 4 OF 4**

Rpt#: 2GQFM001 CQD Rpt: 07/15/2002 Odom: 11,582 M
Rvwd: File: Folder: Images: 7 Print Smy/Disp Detail(P/D):
Vehicle: 2000 TAURUS,SE SVG,SEDAN IFAFP55SKYG154452 Bld: 12/23/1999
Engine: 3.0L EPI M Cyl: 0DD14N0A Trans: AX4N Axle: FWD 3.98 A/C: YES
Dealer Id: 03142 LAKEWOOD FORDLAND INC Ph#: (303) 232-6145
State: Colorado City: Lakewood Orig/Caller: TONY DIONISI
Symptoms: 3 01 0 00 CHASS.,SERVICE BRAKE,OTHER-CODE NA,OTHER-CODE NA
Addl Sym: St CCRG/EPRC: Rvwd: Dt
Fix: Caus. Comp: SWITCH ASY-STOPLIGHT - RPL Condition Code:


Region Code: 56 Region Name: Denver - 56

CONCERN: BRAKE LIGHTS STAY ON - CAUSED BATTERY TO GO DEAD.


REPAIR: TECHNICIAN AND DENVER FQE INSPECTED UNIT PER FCSD ECI ASSIGNMENT # 02-61 AND NOTED THE FOLLOWING:

- * VERIFIED CUSTOMERS CONCERN - DEAD BATTERY. USED JUMPER BOX AND STARTED ENGINE - REAR BRAKE LIGHTS WERE ON WITH NO ONE TOUCHING BRAKE PEDAL (UNIT EQUIPPED WITH ADJUSTABLE BRAKE PEDALS). INSPECTED UNDER I/P - COULD SEE SOME GREASE IN AREA OF PIVOT SPRING AND CABLE CONNECTION AREAS - DID NOT SEEM EXCESSIVE.
- * VEHICLE HISTORY PER DEALER FILE/AWS: @ 6,327 MILES ON 2-26-01 - CONCERN OF BRAKE LIGHTS STAY ON ALL TIMES - REPLACED SWITCH (13480). @ 7,060 MILES ON 5-9-01, CUSTOMER BROUGHT UNIT IN FOR RECALL 01808 - BRAKE SWITCH (13480) WAS REPLACED AGAIN PER RECALL INSTRUCTIONS.
- * FQE CONTACTED KEVIN LYSIK TO DISCUSS UNIT (PER INSTRUCTIONS ON ECI ASSIGNMENT # 02-61). IT WAS DECIDED TO ORDER NEW ADJUSTABLE PEDAL ASSEMBLY AND BRAKE SWITCH (13480) AND REPLACE BOTH THESE PARTS. PARTS WILL BE THEN BE INSPECTED IN DEARBORN TO DETERMINE REASON FOR BRAKE SWITCH CONCERN. PARTS BEING REPLACED WILL BE RETURNED TO FCSD ECI - ATTENTION L. BERSUDER.
- * CONTACT DENVER FQE (A. DIONISI - 303-921-2517) FOR ADDITIONAL INFORMATION. PHOTOS WILL BE ATTACHED TO CQIS REPORT.

COIS = 2GOFM001
Tony Diotis - Denver FGE
7-15-2002
2GOFM001a.jpg
VIN #



CGIS # 2GOFM001
Tony Dionisi - Denver FGE
7-15-2002
2GOFM001g.jpg
Adjustable pedal
assembly/brake switch
area



CGIS # 2GOFM001
Tony Dionisi - Denver FGE
7-15-2002
2GOFM001f.jpg
Adjustable pedal
assembly area.

Villarruel, Nemesio (N.)

From: Lysik, Kevin (K.M.)
Sent: Thursday, July 11, 2002 8:07 AM
To: Aghill, Max (M.); Beard, Dave (D.F.); Komosky, Dale (.); Patel, Bharat (B.J.); Schmidt, Norm (N.G.); Schramek, Joseph (J.E.); Setlil, Frank (F.E.); Stollsteimer, Dale (D.O.); Villarruel, Nemesio (N.); Waxer, Donald (D.D.)
Cc: Summers, Priscilla (P.L.); Lysik, Kevin (K.M.)
Subject: Oil In Stop Lamp Switch

I wanted to clarify something I stated earlier about the oil in the switches.

The (5) switches (from repeat repairs) I had Central Lab analyze last week contained the same oil (grease) as was found on the switches analyzed for the 14D last year. However, the oil did not match the sample of grease I had supplied to the lab from Teleflex current production. Teleflex made a change to the grease last year. I am waiting for a response from PVT with the grease p/n and trade name so I can verify that the old grease matches the oil on the switch samples.

Kevin Lysik

Electrical Campaign Prevent Specialist- NA Car
Family Vehicles
313-24-85017

Villarruel, Nemesio (N.)

From: Patel, Bharat (B.J.)
Sent: Thursday, July 11, 2002 7:47 PM
To: Villarruel, Nemesio (N.)
Subject: RE:

Pls work with Kevin to include the vehicle repair history and identify against each VIN any pertinent brakes related repair might have been completed. This would better isolate the grease source - may be the grease was squirted in that location based on customer complaint of a squeak and it just so happens that the grease used is the same as the one in the drive mechanism. Also, contact Lee Bersuder and have the FQE's circle back with the dealer body to find out the type of grease that dealers have been known to put on. We need to know a specification if at all available.

BHARAT J. PATEL

North American Car (NAC) Critical Concern Manager

bpate17@ford.com; Loc.: 1GB059, Bldg. #1; MD#1124

Phone: 313-248-6312; Fax: 313-390-6002; Text Pager: 1-313-795-3457

—Original Message—

From: Villarruel, Nemesio (N.)
Sent: Thursday, July 11, 2002 10:25 AM
To: Lysik, Kevin (K.M.)
Cc: Patel, Bharat (B.J.)
Subject:

Kevin:

Attached is the Brake Light switch audit summary and photos from yesterday.

<< File: Brake_switch_audit.xls >> << File: MVC-002L.JPG >> << File: MVC-003L.JPG >> << File: MVC-004L.JPG >> << File: MVC-005L.JPG >> << File: MVC-006L.JPG >> << File: MVC-007L.JPG >>

Nemesio Villarruel

NAC - Safety/Recall Tech Specialist

Tel: (313) 322-7966

Fax: (313) 390-6002

Pager: (313) 795-9061

Villarruel, Nemesio (N.)

From: Lyslk, Kevin (K.M.)
Sent: Monday, July 08, 2002 8:42 AM
To: Wash, Chris (C.J.)
Cc: Patel, Bharat (B.J.); Villarruel, Nemesio (N.); Lyslk, Kevin (K.M.)
Subject: RE: Warranty Parts Return Request - Brake Light Switch

Chris:
p/n: YF1Z-13480-AA
YFIZ-13480-BA

2F1Z-13480-AA

200 pcs
Taurus/Sable
2000, 2001, 2002MY
Need VIN number of vehicle from which switch came.

-----Original Message-----

From: Villarruel, Nemesio (N.)
Sent: Wednesday, July 03, 2002 3:26 PM
To: Lyslk, Kevin (K.M.)
Cc: Patel, Bharat (B.J.); Wash, Chris (C.J.); Villarruel, Nemesio (N.)
Subject: Warranty Parts Return Request - Brake Light Switch

Kevin,

I spoke with Chris Wash x88281 and he will fill out the request form for me since I will be on vacation this Friday.
Please send him the info to request the parts: Service Part Number, Period (months) or number of parts (200 pcs), Model of vehicle & Model Year
ship to: WPRC (I can pick up parts)

Description of Part: Brake Light switch.

I will see you on Monday.

Nemesio Villarruel
NAC - Safety/Recall Tech Specialist
Tel: (313) 322-7988
Fax: (313) 390-8002
Pager: (313) 796-8081

Villarruel, Nemesio (N.)

From: Villarruel, Nemesio (N.)
Sent: Monday, June 10, 2002 2:45 PM
To: Bersuder, Lee (L.C.)
Cc: Lysk, Kevin (K.M.); Patel, Bharat (B.J.)
Subject: FW: 2000 Taurus/ Sable stop lamp switch

Lee,

Per the note below. The electrical folks would like to review units coming back to the dealer for repeat repair for the stop lamp switch. We would like to keep it to the local area (Detroit Area Dealers). Ideally they would like to review 20 units. Attached is field request. Thanks



field_request_stop_lamp_s
witch.xls..

Nemesio Villarruel

NAC - Safety/Recall Tech Specialist

Tel: (313) 322-7986

Fax: (313) 390-8002

Pager: (313) 796-8061

---Original Message---

From: Lysk, Kevin (K.M.)
Sent: Monday, June 10, 2002 1:34 PM
To: Villarruel, Nemesio (N.)
Subject: 2000 Taurus/ Sable stop lamp switch

Re:
Another new assignment.....

We need to review any 2000MY Taurus/Sable that are having stop lamp switches repaired for the second time. The first time is the Recall 01808. We need to see the vehicles before the repair is made for the second time. Bharat wanted the FQE's to be made aware of this issue. Isn't there a process through Lee Bersuder?

Kevin Lysk

Electrical Campaign Prevent Specialist- NA Car
Family Vehicles
313-24-85017

FOE Assignment Form

DATE ISSUED: 10-Jun-02

Model Year: 2000
 Vehicle Use: Taurus/Sable
 Mileage range: All

Port number:
 # of units to be checked: 20
 Torque spec:
 Tolerances:

Engineer's name: N. Warrick
 Phone number: 3E-27986
 Email address: NWILLABE

DUE DATE:

John Domka	X	Michigan
Gordis Kaltz		California
Tom Peeler		Georgia
Brian Howe		Nevada
Dan Hammack		Texas
Harry Ireland		California

Tony Dionisi		Colorado
Tony Colarossi	X	Nick/Ohio
Tom Hecker		Wisc./ND
Mark Hayduk		Penna.

Lynn Sorenson		Texas
Dave Pilgrim		Texas
Ron Traver		Florida
Dan Myers		Iowa
Don Christoff		Florida

Problem description

Adjustable pedal mechanism grease entering brake switch connector and causing failure.

What specific information are you requesting

Notify Kevin Lyek (KLYEK) and myself to inspect vehicle prior to dealer performing repair.

Any other information that will insure your assignment is a success

UNRECORDED - CONCERN IDENTIFICATION
UNRECORDED - CONCERN IDENTIFICATION

Assignment No. _____

Villarruel, Nemesio (N.)

From: Lysik, Kevin (K.M.)
Sent: Monday, June 24, 2002 1:58 PM
To: Aghill, Max (M.); Beard, Dave (D.F.); Komosky, Dale (.); Patel, Bharat (B.J.); Schmidt, Norm (N.G.); Setill, Frank (F.E.); Villarruel, Nemesio (N.)
Cc: Lysik, Kevin (K.M.)
Subject: Open Issues List

Attached is the Open Issues List from June 19 Team Meeting.
We will meet on 6/26 2-3PM, 23A01.



Stop Lamp Switch

Kevin Lysik

Electrical Campaign Prevent Specialist- NA Car
Family Vehicles
313-24-85017

- 200
- Coil Springs
- Timely Closure

- Brake ~~to~~ Switch -
Prior to Second Repair -

- Blackwell Ford - 734-453-1100
• Service Mgr ~~***~~ DENORITY TIM
• JOHN DOMKA, F&B Contact Lin

Villarruel, Nemesio (N.)

From: Lovelace, Maria (M.E.)
Sent: Tuesday, June 18, 2002 1:40 PM
To: Villarruel, Nemesio (N.)
Subject: switch

Nemo
a switch arrived from Tom Peeler in Ga. I have it

Maria E. Lovelace - FQE Liaison

Enhanced Concern Identification - FCSD
500 Town Center, Suite 300 Cube 25
500 Town Center Drive
Dearborn, Michigan 48126
313-323-6581/800-521-4450

Villarruel, Nemesio (N.)

From: Lysik, Kevin (K.M.)
Sent: Tuesday, July 09, 2002 1:36 PM
To: Aghill, Max (M.); Beard, Dave (D.F.); Kornosky, Dale (.); Patel, Bharat (B.J.); Schmidt, Norm (N.G.); Schramek, Joseph (J.E.); Setill, Frank (F.E.); Stollsteimer, Dale (D.O.); Villarruel, Nemesio (N.); Waxer, Donald (D.D.)
Subject: Oil on Stop Lamp Switch

Team : FYI on Oil found on switches.

---Original Message---

From: Guillen, Gayle (G.D.)
Sent: Tuesday, July 09, 2002 12:44 PM
To: Lysik, Kevin (K.M.)
Subject: RE: information on stop lamp switch

The type of ester oil we found isn't utilized in nylons as a plasticizer so that could NOT be the source. Trust me, in fogging you only get very minor droplets and never the amount of material we are seeing in these switches. Typically only vinyls and hydrocarbon-based materials have any significant amount of fogging materials present. Haven't run into this issue with any nylons, especially glass filled.

---Original Message---

From: Lysik, Kevin (K.M.)
Sent: Tuesday, July 09, 2002 12:31 PM
To: Guillen, Gayle (G.D.)
Subject: FW: information on stop lamp switch

Gayle: Please refer to the notes below. Is fogging of the plastic possible?

---Original Message---

From: Schramek, Joseph (J.E.)
Sent: Tuesday, July 09, 2002 12:20 PM
To: Lysik, Kevin (K.M.)
Subject: RE: information on stop lamp switch

Or from the fogging, (FLTM BO 116-3), Fog Number, min, TBD, as called out in the material specification WSK-M4D883-A, for the cover of the switch, nylon glass filled material. Fogging is the formation of excessive amounts of clear film or droplets is cause for rejection.

Joe Schramek, EXT 31979, FAX: (313) 621-8675

---Original Message---

From: Lysik, Kevin (K.M.)
Sent: Tuesday, July 09, 2002 10:50 AM
To: Patel, Bharat (B.J.); Schmidt, Norm (N.G.)
Cc: Schramek, Joseph (J.E.)
Subject: FW: information on stop lamp switch

Bharat, Norm: The analysis indicates that the grease (oil) found on the switches does not match the low temp grease sample I provided (from Teleflex). The grease (oil) matches a Molykote sample. I am verifying that the sample Teleflex gave me is the same grease that they used initially. I will also call AAP and inquire about the grease they used prior to receiving greased parts from Teleflex. Otherwise we have another source of grease. Maybe the steering column?

---Original Message---

From: Guillen, Gayle (G.D.)

Sent: Tuesday, July 09, 2002 10:23 AM
To: Lysak, Kevin (K.M.)
Subject: information on stop lamp switch

Preliminary information from the lab indicates that the oil in the stop lamp switches is an ester-based grease. It does not match either grease you submitted to me, however, approximately two years ago the lab did run a Molykote grease [Spec ESA-M1C232-A lists Molykote as the supplied material] which this ester matches perfectly. Is it possible that you received an incorrect grease?

Gayle Gullen

Chassis Nonmetallic Materials, Lubricants, and Fuel Systems
(313) 62-16821 (313) 84-54023 FAX
ggullen@ford.com
PDC, cube 28D13, MD 165

We have answers to your materials and problem resolution needs.
<http://www.dearborn3.ford.com/met/>

Villarruel, Nemesio (N.)

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 27, 2002 8:57 AM
To: Villarruel, Nemesio (N.)
Subject: FW: Assign. 02-81 - T/S Brake Switches - Repeat Repair after Recall

-----Original Message-----

From: Hayduk, Mark (M.S.)
Sent: Thursday, June 27, 2002 9:56 AM
To: Lovelace, Maria (M.E.)
Cc: Hayduk, Mark (M.S.)
Subject: Assign. 02-81 - T/S Brake Switches - Repeat Repair after Recall

Maria, I previously wrote CQIS # 2E4MV001 and sent you the switch (which was previously replaced under the recall) for this assign.

I wrote 3 more CQIS reports for this assign. today: 2F1BX001, 2F1BX002 and 2F1BX003. I will ship you these parts.

The assign. asks us to identify a vehicle for engineering review prior to replacing the switch. All four of these switches were replaced by the tech. prior to my involvement with the vehicle so I grabbed the switches and wrote them up.

The techs. tell me that they know they are supposed to wipe off the excessive grease prior to putting on the new switch, but they tell me that they know that they can't get all the grease off because they can't wipe/reach it all with a rag.

Thanks.

Mark Hayduk

Field Quality Engineer
Global Concern Definition
Ph: 724-941-8870
Cell: 724-822-4342
Fax: 724-941-5154

Villarruel, Nemesio (N.)

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 27, 2002 9:58 AM
To: Villarruel, Nemesio (N.)
Subject: FW: Assignment # 61

-----Original Message-----

From: Domka, John (J.J.)
Sent: Wednesday, June 26, 2002 10:27 PM
To: Lovelace, Maria (M.E.)
Subject: Assignment # 61

Did not find any 2nd time failure brake switch issues on 2000 Taurus/Sables at any of my Detroit Area Dealers!

Thanks,

John J. Domka

Field Quality Engineer
Enhanced Concern Identification
Ford Customer Service Division

jdomka@ford.com
Phone 313-433-7810
FAX 734-476-9110

Villarruel, Nemesio (N.)

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 27, 2002 10:01 AM
To: Villarruel, Nemesio (N.)
Subject: FW: Assignment 02-61

-----Original Message-----

From: Myers, Dan (D.P.)
Sent: Wednesday, June 26, 2002 8:42 PM
To: Lovelace, Maria (M.E.)
Subject: Assignment 02-61

Maria,
I have surveyed all of my Quad Cities (Eastern Iowa/Western Illinois) Dealers since I was added to this assignment (6/21/02) and have not found any repeat issues with Taurus/Sable brake switches.

Thanks,

Dan Myers

Field Quality Engineer - Iowa
Enhanced Concern Identification

dmyers4@ford.com

Call 563-505-8002
Office 563-289-8991
Fax 563-289-1384

Villarruel, Nemesio (N.)

From: Lovelace, Maria (M.E.)
Sent: Thursday, June 27, 2002 10:07 AM
To: Villarruel, Nemesio (N.)
Subject: FW: Assignment # 02-61 - 2000 Taurus/Sable - Brake Switch Concern After Recall

-----Original Message-----

From: Dionisi, Anthony (A.J.)
Sent: Wednesday, June 26, 2002 5:49 PM
To: Lovelace, Maria (M.E.)
Cc: Bersuder, Les (L.C.); Dionisi, Anthony (A.J.)
Subject: Assignment # 02-61 - 2000 Taurus/Sable - Brake Switch Concern After Recall

During the period that Assignment # 02-61 was open, Denver FQE did not encounter any 2000 Taurus/Sable units that had a brake switch concern following recall. FQE discussed concern with technicians at Ford/L-M Dealers as well as technicians at Hertz and Budget (Denver Airport location). The following was noted:

- * One switch was returned to ECI - replaced on a 2002 Sable a [REDACTED] for cruise control not working. See CQIS # 2FWAH002.
- * Some of the technicians who did units under Recall 01S08, remember having comebacks where new switch that was installed was also bad. Some of the comebacks happened in a short time following recall work and some after a period of time. Unfortunately, none have been done recently where parts were still available. Grease did not seem to be a factor in comebacks per technicians.
- * None of the technicians I spoke with had a unit in for repair at this time that qualified under Assignment # 02-61. I requested technicians to call if they encountered a vehicle. No calls were received.

Assignment # 02-61 is closed.

Tony Dionisi
Ford Motor Company
Enhanced Concern Identification
Denver Field Quality Engineer
Office: 303-348-4788
Cell: 303-921-2517
Fax: 303-348-4788
adionisi@ford.com

Villarruel, Nemesio (N.)

From: Lysik, Kevin (K.M.)
Sent: Monday, July 08, 2002 8:42 AM
To: Wash, Chris (C.J.)
Cc: Patel, Bharat (B.J.); Villarruel, Nemesio (N.); Lysik, Kevin (K.M.)
Subject: RE: Warranty Parts Return Request - Brake Light Switch

Chris:
p/n: YF1Z-13480-AA
YFIZ-13480-BA

2F1Z-13480-AA

200 pcs
Taurus/Sable
2000, 2001, 2002MY
Need VIN number of vehicle from which switch came.

—Original Message—

From: Villarruel, Nemesio (N.)
Sent: Wednesday, July 03, 2002 3:26 PM
To: Lysik, Kevin (K.M.)
Cc: Patel, Bharat (B.J.); Wash, Chris (C.J.); Villarruel, Nemesio (N.)
Subject: Warranty Parts Return Request - Brake Light Switch

Kevin,

I spoke with Chris Wash x88281 and he will fill out the request form for me since I will be on vacation this Friday.
Please send him the info to request the parts: Service Part Number, Period (months) or number of parts (200 pcs), Model of vehicle & Model Year
ship to: WPRC (I can pick up parts)

Description of Part: Brake Light switch.

I will see you on Monday.

Nemesio Villarruel
NAC - Safety/Recall Tech Specialist
Tel: (313) 322-7966
Fax: (313) 390-6002
Pager: (313) 795-8081

Villarruel, Nemesio (N.)

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Sent: Tuesday, July 09, 2002 1:36 PM
To: Aghili, Max (M.); Beard, Dave (D.F.); Kornosky, Dale (.); Patel, Bharat (B.J.); Schmidt, Norm (N.G.); Schramek, Joseph (J.E.); Setili, Frank (F.E.); Stolsteimer, Dale (D.O.); Villarruel, Nemesio (N.); Waxer, Donald (D.D.)
Subject: Off on Stop Lamp Switch

Team : FYI on Oil found on switches.

-----Original Message-----

From: Gulen, Gayle (G.D.)
Sent: Tuesday, July 09, 2002 12:44 PM
To: Lysik, Kevin (K.M.)
Subject: RE: Information on stop lamp switch

The type of ester oil we found isn't utilized in nylons as a plasticizer so that could NOT be the source. Trust me, in fogging you only get very minor droplets and never the amount of material we are seeing in these switches. Typically only vinyls and hydrocarbon-based materials have any significant amount of fogging materials present. Haven't run into this issue with any nylons, especially glass filled.

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Sent: Tuesday, July 09, 2002 12:31 PM
To: Gulen, Gayle (G.D.)
Subject: FW: Information on stop lamp switch

Gayle: Please refer to the note below. Is fogging of the plastic possible?

-----Original Message-----

From: Schramek, Joseph (J.E.)
Sent: Tuesday, July 09, 2002 12:20 PM
To: Lysik, Kevin (K.M.)
Subject: RE: Information on stop lamp switch

Or from the fogging, (FLTM BO 118-3), Fog Number, min, TBD, as called out in the material specification WSK-M4D863-A, for the cover of the switch, nylon glass filled material. Fogging is the formation of excessive amounts of clear film or droplets is cause for rejection.

Joe Schramek, EXT 31978, FAX: (313) 821-8675

-----Original Message-----

From: Lysik, Kevin (K.M.)
Sent: Tuesday, July 09, 2002 10:50 AM
To: Patel, Bharat (B.J.); Schmidt, Norm (N.G.)
Cc: Schramek, Joseph (J.E.)
Subject: FW: Information on stop lamp switch

Bharat, Norm: The analysis indicates that the grease (oil) found on the switches does not match the low temp grease sample I provided (from Teleflex). The grease (oil) matches a Molykote sample. I am verifying that the sample Teleflex gave me is the same grease that they used initially. I will also call AAP and inquire about the grease they used prior to receiving greased parts from Teleflex. Otherwise we have another source of grease. Maybe the steering column?

-----Original Message-----

From: Gulen, Gayle (G.D.)
Sent: Tuesday, July 09, 2002 10:23 AM
To: Lysik, Kevin (K.M.)
Subject: information on stop lamp switch

Preliminary information from the lab indicates that the oil in the stop lamp switches is an ester-based grease. It does not match either grease you submitted to me, however, approximately two years ago the lab did run a Molykote grease [Spec ESA-M1C232-A lists Molykote as the supplied material] which this ester matches perfectly. Is it possible that you received an incorrect grease?

Gayle Gullen

Chassis Nonmetallic Materials, Lubricants, and Fuel Systems

(313) 82-18821 (313) 84-54023 FAX

ggullen@ford.com

PDC, cube 2BD13, MD 165

We have answers to your materials and problem resolution needs.

<http://www.detroit3.ford.com/met/>

From: Savage, Megan (M.M.)
Sent: Friday, March 14, 2003 8:12 AM
To: Heath, David (D.E.); Nadeau, Brian (B.W.); Strong, Sheryl (S.A.)
Cc: Belanger Jr., Thomas (T.D.)
Subject: RE: Stop lamp change C11470565

The radius change affect all Pollak 2 terminal switches: D186, U152 and W128/V229.

-----Original Message-----

From: Heath, David (D.E.)
Sent: Friday, March 14, 2003 7:55 AM
To: Nadeau, Brian (B.W.); Strong, Sheryl (S.A.)
Cc: Savage, Megan (M.M.); Belanger Jr., Thomas (T.D.)
Subject: RE: Stop lamp change C11470565

D186 is not affected because we already have the limit changes proposed. Please correct the CR , thanks.

-----Original Message-----

From: Nadeau, Brian (B.W.)
Sent: Friday, March 14, 2003 7:29 AM
To: Strong, Sheryl (S.A.)
Cc: Savage, Megan (M.M.); Heath, David (D.E.)
Subject: RE: Stop lamp change C11470565

I haven't been able to check this Concern lately. D186 may have dropped off because I owe an RCT form, which I am very late with.

Regards,
Brian Nadeau
Sr. Sales/Application Engineer
Stoneridge, Inc.
248-324-3880

-----Original Message-----

From: Strong, Sheryl (S.A.)
Sent: Thursday, March 13, 2003 12:11 PM
To: Nadeau, Brian (B.W.)
Subject: Stop lamp change C11470565

Brian,

I received a phone call today from St. Louis PVT requesting a trial be done on for the changes requested. Is that possible? Please let me know. They would like 20-30 and would assume Louisville would like the same.

Also, have you looked at the concern lately? D186 seems to be not affected anymore. Also, what is going on with Megan's request to add more?

Best Regards,
Sheryl Strong
RVT Switches
phone&fax (313) 621-0772
sstron10@ford.com

From: Heath, David (D.E.)
Sent: Friday, March 14, 2003 7:55 AM
To: Nadeau, Brian (B.W.); Strong, Sheryl (S.A.)
Cc: Savage, Megan (M.M.); Belanger Jr., Thomas (T.D.)
Subject: RE: Stop lamp change C11470585

D186 is not affected because we already have the limit changes proposed. Please correct the CR , thanks.

-----Original Message-----

From: Nadeau, Brian (B.W.)
Sent: Friday, March 14, 2003 7:29 AM
To: Strong, Sheryl (S.A.)
Cc: Savage, Megan (M.M.); Heath, David (D.E.)
Subject: RE: Stop lamp change C11470565

I haven't been able to check this Concern lately. D186 may have dropped off because I owe an RCT form, which I am very late with.

Regards,
Brian Nadeau
Sr. Sales/Application Engineer
Stoneridge, Inc.
248-824-3880

-----Original Message-----

From: Strong, Sheryl (S.A.)
Sent: Thursday, March 13, 2003 12:11 PM
To: Nadeau, Brian (B.W.)
Subject: Stop lamp change C11470565

Brian,

I received a phone call today from St. Louis PVT requesting a trial be done on for the changes requested. Is that possible? Please let me know. They would like 20-30 and would assume Louisville would like the same.

Also, have you looked at the concern lately? D186 seems to be not affected anymore. Also, what is going on with Megan's request to add more?

Best Regards,
Sheryl Strong
RVT Switches
phone&fax (313) 621-0772
sstron10@ford.com

Subject: Updated: Project #11551: Decreasing Unwanted Brake Switch Logic States Team Meeting
Location: Building #3 cafeteria

Start: Thu 10/31/2002 1:00 PM
End: Thu 10/31/2002 2:00 PM
Show Time As: Tentative

Recurrence: Weekly
Recurrence Pattern: every Thursday from 1:00 PM to 2:00 PM

Meeting Status: Not yet responded

Required Attendees: Belanger Jr., Thomas (T.D.); Jendruach, Tom (T.D.); Zuraw, Timothy (T.); Stollstelmer, Dale (D.O.); Blackburn, Thomas (T.J.); Lysik, Kevin (K.M.); Rosal, Roberto (R.A.); McCann, Mike (M.J.); brian.nadeau@del.stoneridge.com

Importance: High

Weekly Team Meeting for Six Sigma Project

From: McCann, Mike (M.J.)
Sent: Thursday, October 17, 2002 2:48 PM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: Support needed: Brake Assembly Teesellated File

I would try the chassis core area (Tom Jendrusch)

Mike McCann
X-Vehicle Switch Applications
mmccann2@ford.com, 313-322-7167

---Original Message---

From: Belanger Jr., Thomas (T.D.)
Sent: Thursday, October 17, 2002 12:56 PM
To: McCann, Mike (M.J.)
Subject: Support needed: Brake Assembly Teesellated File

Mike, I would like to obtain teesellated BOO Switch assembly files for the Taurus/Sable, Windstar, Explorer/Mountaineer, Navigator, Expedition, and Ranger.

Each assembly need to contain all elements of the pedal assembly, the switch, the harness, the booster, the steering column, the cowl, the dash, and any component packaged that restrict clearance to the mechanical movement of the pedal assembly.

I need a recommendation on who can do this for me.

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137988435@alphapage.airtouch.com

Pager: (313) 798-8435

From: Heath, David (D.E.)
Sent: Tuesday, October 08, 2002 12:43 PM
To: Belanger Jr., Thomas (T.D.)
Cc: Lysik, Kevin (K.M.)
Subject: RE: BOO Switch and 6-Sigma

There is a CCRG team involved with a recall on D186 for grease on stoplamp switches. They should be able to help identify our current costs as well. Kevin Lysik may be able to help.

David Heath
Taurus/ Sable PVT
NAC Elec. Systems
Phone: 404-669-1382
Fax: 404-669-1873
Pager: 888-517-9535

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Tuesday, October 08, 2002 12:26 PM
To: Heath, David (D.E.)
Subject: RE: BOO Switch and 6-Sigma

Thanks Dave. I am in the process of trying to account for the cost of switch repairs and reworks. Have you looked into how much money we spend correcting or trying to prevent problems with the BOO switch.

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137968438@alphapage.alfatouch.com
Pager: (313) 796-8438

-----Original Message-----

From: Heath, David (D.E.)
Sent: Tuesday, October 08, 2002 12:20 PM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: BOO Switch and 6-Sigma

Tom,
It looks good, I'd add a couple of inputs 1. Booster pin mounting bracket(on pedal assy.) surface area and finish 2. Does pedal assy have a return spring?

David Heath
Taurus/ Sable PVT
NAC Elec. Systems
Phone: 404-669-1382
Fax: 404-669-1873
Pager: 888-517-9535

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Monday, October 07, 2002 2:54 PM
To: Heath, David (D.E.)
Subject: BOO Switch and 6-Sigma

<< File: Cause and Effect Matrix.xls >>

Dave, Here is the matrix I noted in my phone message. I would like to get your input into this. So take a look at if your can. The left hand side needs to list all the critical inputs into the system (and output which may also be viewed as input). Along the top is the listing of system outputs. Both the inputs and outputs has declared system measurable. We will use these to study interactions between the system elements.

Tom Belanger

Black Belt Candidate- EESE-R&VT

(313) 248-4853, FAX (313) 248-4853

email & text page to: 313788435@alphapege.airtouch.com

Pager: (313) /98-6435

From: Heath, David (D.E.)
Sent: Tuesday, October 08, 2002 12:20 PM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: BOO Switch and 6-Sigma

Tom,
it looks good, I'd add a couple of inputs 1. Booster pin mounting bracket(on pedal assy.) surface area and finish 2. Does pedal assy have a return spring?

David Heath
Taurus/ Sable PVT
NAC Elec. Systems
Phone: 404-669-1982
Fax: 404-669-1873
Pager: 888-517-9535

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Monday, October 07, 2002 2:54 PM
To: Heath, David (D.E.)
Subject: BOO Switch and 6-Sigma

<< File: Cause and Effect Matrix.xls >>

Dave, Here is the matrix I noted in my phone message. I would like to get your input into this. So take a look at it if you can. The left hand side needs to list all the critical inputs into the system (and output which may also be viewed as input). Along the top is the listing of system outputs. Both the inputs and outputs has declared system measurable. We will use these to study interactions between the system elements.

Tom Belanger
Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email or text page to: 3137886435@alphapage.earthtouch.com
Pager: (313) 795-6435

From: Zuraw, Timothy (T.)
Sent: Tuesday, October 01, 2002 4:42 PM
To: Belanger Jr., Thomas (T.D.)

The AWS request for all CCC with the Brake SW part number as the filter for Windstar finally finished (taurus/sable is still running).

The other, somewhat significant, CCC affected by the brake switch are as follows:

A25: Automatic speed/cruise control - Engagement
A85: Other electrical accessory troubles
C25: Dead Battery
D02: Engine would not start
G29: Other warning lights/gauge troubles
H19: ABS warning light troubles
H20: Other brake troubles
L25: Lights not working interior
L26: Lights not working exterior
L29: Other lighting troubles
P01: Difficult to change gears

Timothy Zuraw
Ford Automotive Operations
EESE Certified Black Belt
Building #1, 13C078
Phone: (313) 621-1784
Phone at DAP: 313-621-8948

From: Bell, Donna (D.L.)
Sent: Monday, September 30, 2002 10:55 AM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: Brake switch BB Project

Tom,
I will make a decision when I see the details...

Regards,

Donna L. Bell

EESE 8-Sigma Project Champion
Building 5, Cube 2A100 MD5011
Phone/Fax: (313) 322-0310
email:dbell7@ford.com

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Monday, September 30, 2002 10:44 AM
To: Bell, Donna (D.L.)
Subject: RE: Brake switch BB Project

We have a meeting every Monday afternoon to review the timing and tasks on the project. I am treating the assignment as if we had an open project, Tim is certified Black Belt, and he would like to see the project formalize in the tracking system. His suggestion was that I open the project as the leader and listed him as a supporting Blackbelt so that I may use the project toward certification. I would like your concurrence to do this.

This afternoon I will learn more on the cost saving, we have as the greenbelt to aid in the COPQ estimates.

Tom Belanger

Black Belt Candidate- EESE-R&VT

(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137966435@alphapage.airtouch.com

Pager: (313) 796-6435

-----Original Message-----

From: Bell, Donna (D.L.)
Sent: Friday, September 27, 2002 10:16 AM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: Brake switch BB Project

Tom,
What is the status on this?

Regards,

Donna L. Bell

EESE 8-Sigma Project Champion
Building 5, Cube 2A100 MD5011
Phone/Fax: (313) 322-0310
email:dbell7@ford.com

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Friday, September 20, 2002 11:03 AM

To: Zuraw, Timothy (T.)
Cc: Bell, Donna (D.L.)
Subject: RE: Brake switch BB Project

Tim, I think it is a good idea to join our efforts. I will setup a meeting on Monday afternoon so we can review what we can do. I have attached a working matrix that I have started to help understand the KPOV and KPjV. I plan using this sheet to matrix the inputs to output, and will be moving towards the cause and effect matrix as we refine the relationships. I have also attached the project plan which I am drafting; on Monday I would like review this plan and we can call out the green belt project at that time.

<< File: KPOV and KPjV.xls >> << File: BOO Switch.mpp >>

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4863, FAX (313) 248-4868
email a text page to: 3137068435@alphapage.airtouch.com

Pager: (313) 706-8435

-----Original Message-----

From: Zuraw, Timothy (T.)
Sent: Friday, September 20, 2002 9:41 AM
To: Belanger Jr., Thomas (T.D.)
Subject: Brake switch BB Project

Tom,

I am in the process of writing up potential green belt projects on the brake switch for D186 and WIN126. These projects could be derived from your Black Belt project. Have you entered a project in the BB tracking system? I would like to assist you with the define process and developing the $y=f(x)$ process, since there could be multiple black belt projects on the brake switch.

Regards,

Timothy Zuraw

EESE Black Belt
Building #1, 13C078
Phone: (313) 621-1784
Phone at DAP: 313-621-8848

From: Belanger Jr., Thomas (T.D.)
Sent: Monday, September 30, 2002 10:44 AM
To: Bell, Donna (D.L.)
Subject: RE: Brake switch BB Project

We have a meeting every Monday afternoon to review the timing and tasks on the project. I am treating the assignment as if we had an open project, Tim is certified Black Belt, and he would like to see the project formalize in the tracking system. His suggestion was that I open the project as the leader and listed him as a supporting Blackbelt so that I may use the project toward certification. I would like your concurrence to do this.

This afternoon I will learn more on the cost saving, we have as the greenbelt to aid in the COPQ estimates.

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137986435@alphapege.airtouch.com
Pager: (313) 798-6435

—Original Message—
From: Bell, Donna (D.L.)
Sent: Friday, September 27, 2002 10:16 AM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: Brake switch BB Project

Tom,
What is the status on this?

Regards,
Donna L. Bell
EESE 6-Sigma Project Champion
Building 5, Cube 2A100 MD5011
Phone/Fac (313) 322-0910
email:dbell7@ford.com

—Original Message—
From: Belanger Jr., Thomas (T.D.)
Sent: Friday, September 20, 2002 11:03 AM
To: Zuraw, Timothy (T.)
Cc: Bell, Donna (D.L.)
Subject: RE: Brake switch BB Project

Tim, I think it is a good idea to join our efforts. I will setup a meeting on Monday afternoon so we can review what we can do. I have attached a working matrix that I have started to help understand the KPOV and KPIV. I plan using this sheet to matrix the inputs to output, and will be moving towards the cause and effect matrix as we refine the relationships. I have also attached the project plan which I am drafting; on Monday I would like review this plan and we can call out the green belt project at that time.

<< File: KPOV and KPIV.xls >> << File: BOO Switch.mpp >>

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137986436@alphapage.airtouch.com

Pager: (313) 786-6436

---Original Message---

From: Zuraw, Timothy (T.)
Sent: Friday, September 20, 2002 9:41 AM
To: Belonger Jr., Thomas (T.D.)
Subject: Brake switch BB Project

Tom,

I am in the process of writing up potential green belt projects on the brake switch for D186 and WIN126. These projects could be derived from your Black Belt project. Have you entered a project in the BB tracking system? I would like to assist you with the define process and developing the $y=f(x)$ process, since there could be multiple black belt projects on the brake switch.

Regards,

Timothy Zuraw
EESE Black Belt
Building #1, 13C078
Phone: (313) 821-1794
Phone at DAP: 313-821-9948

From: Bell, Donna (D.L.)
Sent: Friday, September 27, 2002 10:16 AM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: Brake switch BB Project

Tom,
What is the status on this?

Regards,

Donna L. Bell

EESE @ Sigma Project Champion
Building 5, Cube 2A100 MD5011
Phone/Fax: (313) 322-0310
email:dbell7@ford.com

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Friday, September 20, 2002 11:03 AM
To: Zuraw, Timothy (T.)
Cc: Bell, Donna (D.L.)
Subject: RE: Brake switch BB Project

Tim, I think it is a good idea to join our efforts. I will setup a meeting on Monday afternoon so we can review what we can do. I have attached a working matrix that I have started to help understand the KPOV and KPIV. I plan using this sheet to matrix the inputs to output, and will be moving towards the cause and effect matrix as we refine the relationships. I have also attached the project plan which I am drafting; on Monday I would like review this plan and we can call out the green belt project at that time.

<< File: KPOV and KPIV.xls >> << File: BOO Switch.mpp >>

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4855, FAX (313) 248-4863
email & text page to: 3137986435@alphapage.airtouch.com

Pager: (313) 798-6435

-----Original Message-----

From: Zuraw, Timothy (T.)
Sent: Friday, September 20, 2002 9:41 AM
To: Belanger Jr., Thomas (T.D.)
Subject: Brake switch BB Project

Tom,

I am in the process of writing up potential green belt projects on the brake switch for D188 and WIN128. These projects could be derived from your Black Belt project. Have you entered a project in the BB tracking system? I would like to assist you with the define process and developing the y=f(x) process, since there could be multiple black belt projects on the brake switch.

Regards,

Timothy Zuraw
EESE Black Belt

Building #1, 13C078
Phone: (313) 621-1784
Phone at DAP: 313-621-9948

Subject: BOO Switch Green Belt Projects
Location: Bld-5 3104B 3rd Fl East

Start: Mon 8/23/2002 3:00 PM
End: Mon 8/23/2002 4:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Required Attendees: Belanger Jr., Thomas (T.D.); Zuraw, Timothy (T.)
Resources: Bld-5 3104B 3rd Fl East

Tim, Lets get together to review the MS Project plan I mailed to you, and discuss DMAIC activities to support the BOO switch team.

From: Zuraw, Timothy (T.)
Sent: Friday, September 20, 2002 9:41 AM
To: Belanger Jr., Thomas (T.D.)
Subject: Brake switch BB Project

Tom,

I am in the process of writing up potential green belt projects on the brake switch for D186 and WIN126. These projects could be derived from your Black Belt project. Have you entered a project in the BB tracking system? I would like to assist you with the define process and developing the $y=f(x)$ process, since there could be multiple black belt projects on the brake switch.

Regards,

Timothy Zuraw

EESE Black Belt
Building #1, 13C078
Phone: (313) 621-1794
Phone at DAP: 313-621-9848

From: Zuraw, Timothy (T.)
Sent: Wednesday, September 18, 2002 10:02 AM
To: Lyalk, Kevin (K.M.); Belanger Jr., Thomas (T.D.); Rents, John (J.S.)
Co: Schmidt, Norm (N.G.); Stolsteimer, Dale (D.O.); Rossi, Roberto (R.A.)
Subject: RE: Potential Stop Lamp Switch Measurements

It appears that John Rents is the STA engineer for:

Site code: P545K, JOSEPH POLLAK CORP, Canton, MA.

John, Please confirm. Also, you should be aware of black belt and green belt projects being started on the brake switch supplied by Pollak for Taurus/Sable and Windstar.

Regards,

Timothy Zuraw

EESE Black Belt
Building #1, 13C078
Phone: (313) 621-1794
Phone at DAP: 313-621-9948

---Original Appointment---

From: Lyalk, Kevin (K.M.)
Sent: Monday, September 16, 2002 12:26 PM
To: Lyalk, Kevin (K.M.); Belanger Jr., Thomas (T.D.); Schmidt, Norm (N.G.); Stolsteimer, Dale (D.O.)
Subject: Potential Stop Lamp Switch Measurements
When: Tuesday, September 17, 2002 11:00 AM-11:30 AM (GMT-05:00) Eastern Time (US & Canada).
Where: Kevin's Desk - Bld#2 - 24K36

AGENDA:

Discuss measurements that we may be interested in making on switches pulled from production at Pollak and the relationship to the in-vehicle contact spacing on vehicles measured at Atlanta or Chicago.

Discuss Timing for the project.

Discuss Execution of the project.

From: Belanger Jr., Thomas (T.D.)
Sent: Wednesday, September 11, 2002 4:38 PM
To: McCann, Mike (M.J.); Stolteimer, Dale (D.O.); Lysik, Kevin (K.M.)
Subject: FW: Notice # for Adj. Brake pedal Shoulder Release

This is the concern that has been released to aid in rod alignment to the switch.

-----Original Message-----

From: Paluzzi, Felicia (F.F.)
Sent: Wednesday, September 11, 2002 4:22 PM
To: Heath, David (D.E.)
Cc: Belanger Jr., Thomas (T.D.)
Subject: RE: Notice # for Adj. Brake pedal Shoulder Release

C11322484 released the shouldered booster pin on the adj pedal.

Regards,

Felicia Paluzzi

**Atlanta Assembly Plant - Taurus/Sable P.V.T.
Chassis Engineer
(404) 669-1720
Ford Net 769-1720
Pgn (734) 296-1046
Fax (404) 669-1873**

-----Original Message-----

From: Heath, David (D.E.)
Sent: Tuesday, September 10, 2002 2:41 PM
To: Paluzzi, Felicia (F.F.)
Cc: Belanger Jr., Thomas (T.D.)
Subject: Notice # for Adj. Brake pedal Shoulder Release

Felicia,

Tom Belanger is a black belt working on this issue. Can you forward to him the notice # for the release of the shoulder on the adjustable pedal assy. to get us out (of most) of the stoplamp sticking on issue? Thanks.

**David Heath
Taurus/ Sable PVT
NAC Elec. Systems
Phone: 404-669-1382
Fax: 404-669-1873
Pager: 888-517-9535**

From: Paluzzi, Felicia (F.F.)
Sent: Wednesday, September 11, 2002 4:22 PM
To: Heath, David (D.E.)
Co: Belanger Jr., Thomas (T.D.)
Subject: RE: Notice # for Adj. Brake pedal Shoulder Release

C11322484 released the shouldered booster pin on the adj pedal.

Regards,

Felicia Paluzzi

Atlanta Assembly Plant - Taurus/Sable P.V.T.

Chassis Engineer

(404) 669-1720

Ford Nat: 769-1720

Pgn (734) 396-1046

Fax (404) 669-1878

—Original Message—

From: Heath, David (D.E.)
Sent: Tuesday, September 10, 2002 2:41 PM
To: Paluzzi, Felicia (F.F.)
Cc: Belanger Jr., Thomas (T.D.)
Subject: Notice # for Adj. Brake pedal Shoulder Release

Felicia,

Tom Belanger is a black belt working on this issue. Can you forward to him the notice # for the release of the shoulder on the adjustable pedal assy. to get us out (of most) of the stoplamp sticking on issue? Thanks.

David Heath

Taurus/ Sable PVT

NAC Elec. Systems

Phone: 404-669-1382

Fax: 404-669-1873

Pager: 888-517-9535

From: Heath, David (D.E.)
Sent: Tuesday, September 10, 2002 2:41 PM
To: Paluzzi, Felicia (F.F.)
Co: Belanger Jr., Thomas (T.D.)
Subject: Notice # for Adj. Brake pedal Shoulder Release

Felicia,
Tom Belanger is a black belt working on this issue. Can you forward to him the notice # for the release of the shoulder on the adjustable pedal assy. to get us out (of most) of the stoplamp sticking on issue? Thanks.

David Heath
Taurus/ Sable PVT
NAC Elec. Systems
Phone: 404-669-1982
Fax: 404-669-1873
Pager: 888-517-9535

From: Belanger Jr., Thomas (T.D.)
Sent: Wednesday, September 11, 2002 4:40 PM
To: McCann, Mike (M.J.)
Subject: BOO Switch CPU Saving

Mike, I talked to Donna concerning a 6-sigma project on the BOO switch and she need to understand the potential associated saving. Has anyone done such a calculation, if so can you can me a copy.



Tom Belanger

Black Belt Candidate- EESE-R&VT

(313) 248-4853, FAX (313) 248-4853

email a text page to: 3137956435@alphapage.airtouch.com

Pager: (313) 798-6435

From: Kurth, Kelly (K.J.)
Sent: Tuesday, January 14, 2003 3:54 PM
To: Watson, Joseph (J.W.); Alvey, Ray (R.S.); Belanger Jr., Thomas (T.D.); Sloan, Burt (B.E.); DiGasbarro, Thomas (T.R.); McLellan, Deborah (D.L.); Bak, John (J.L.); Baker, Kevin (K.L.); McCann, Mike (M.J.); Stolsteimer, Dale (D.O.); O'Connor, Tammy (T.A.); De Blasi, Chuck (C.J.); Jardine, Lee (L.A.); Thompson, Lena (L.M.)
Subject: RE: EXPLORER PTQRT PROJECT 191- STOP LIGHT SWITCH DISCUSSION

I would like to clarify that TCAP stop ship issue is BTSI related not BOO
BTSI = Brake Transmission Shift Interlock.

Kelly Kurth

PVT Electrical Engineer
FORD Twin Cities Assembly Plant
kjurth@ford.com
Phone: 651 / 696 - 7993
Fax: 651 / 696 - 0545

---Original Message---

From: McCann, Mike (M.J.)
Sent: Tuesday, January 14, 2003 2:37 PM
To: Kurth, Kelly (K.J.)
Subject: FW: EXPLORER PTQRT PROJECT 191- STOP LIGHT SWITCH DISCUSSION

Mike McCann

X-Vehicle Switch Applications
mmccann2@ford.com, 313-392-7167

---Original Message---

From: Watson, Joseph (J.W.)
Sent: Tuesday, January 14, 2003 3:21 PM
To: Alvey, Ray (R.S.); Belanger Jr., Thomas (T.D.)
Cc: Sloan, Burt (B.E.); DiGasbarro, Thomas (T.R.); McLellan, Deborah (D.L.); Bak, John (J.L.); Baker, Kevin (K.L.); McCann, Mike (M.J.); Stolsteimer, Dale (D.O.); O'Connor, Tammy (T.A.); De Blasi, Chuck (C.J.); Jardine, Lee (L.A.); Thompson, Lena (L.M.)
Subject: RE: EXPLORER PTQRT PROJECT 191- STOP LIGHT SWITCH DISCUSSION

Hi Ray/Tom.....John Bak, our PVT mgr, is requesting an update on the BOO switch issues. Twin Cities is getting ready to issue a stop ship on Ranger. Please advise. Thanks.

Joseph W. Watson
FCSD - PVT & Field Support
Explorer Sport/Sport Trac/U160 Program Manager
Louisville Assembly Plant
Ph. (502) 364-3884 (dialnet 689-3884)
FAX (502) 364-3899 (dialnet 689-3899)

---Original Message---

From: DiGasbarro, Thomas (T.R.)
Sent: Tuesday, January 14, 2003 2:23 PM
To: Watson, Joseph (J.W.)
Cc: Sloan, Burt (B.E.)
Subject: RE: EXPLORER PTQRT PROJECT 191- STOP LIGHT SWITCH DISCUSSION

Joe,

Do you know the status or the results of the CMT meeting on this subject stop light switch (13480)?

Thanks for any info.....

Regards,
Tom DiGasbarro
Quality Explorer PTSE
(313) 84-53816

-----Original Message-----

From: Watson, Joseph (J.W.)
Sent: Friday, November 22, 2002 11:58 AM
To: DiGasbarro, Thomas (T.R.)
Cc: Dehhlallah, Hassan (H.A.); Sloan, Burt (B.E.)
Subject: RE: EXPLORER PTQRT PROJECT 191- STOP LIGHT SWITCH DISCUSSION

11/18/02 CMT meeting minutes.

Brake Switch Failures: Ray Alvey: Still in the investigative phases, there is a Black Belt working on the problem (Tom Belanger). There are some system stackups that are causing interface problems. Mike McCann and Dale Stollsteimer are both out of the office. Tom Belanger is making some trips to the plant and some local dealerships to get a better grasp of the problem. Ray cannot give an exact time line for UP207, however he feels that there will be a great deal of information forthcoming in the next two weeks. This is an issue on Taurus, Windstar and Ranger as well. UP207 currently has 4 CQIS reports for 2003 MY. This issue is on the CMT agenda for 3 December.

Joseph W. Watson
FCSD - PVT & Field Support
Explorer Sport/Sport Trac/U160 Program Manager
Louisville Assembly Plant
Ph. (502) 364-3884 (dialnet 888-3884)
FAX (502) 364-3889 (dialnet 888-3889)

-----Original Message-----

From: DiGasbarro, Thomas (T.R.)
Sent: Friday, November 22, 2002 11:39 AM
To: Watson, Joseph (J.W.)
Cc: Dehhlallah, Hassan (H.A.); Sloan, Burt (B.E.)
Subject: EXPLORER PTQRT PROJECT 191- STOP LIGHT SWITCH DISCUSSION

Joe,

We understand there was a CMT meeting regarding the subject Stop Light Switch (13480).

We would like to know the results of this meeting or the latest information relative to the stop light switch.

Please forward a response, precluding a PTQRT agenda discussion.
Thanks.

Regards,
Tom DiGasbarro
Quality Explorer PTSE
(313) 84-53816

From: Belanger Jr., Thomas (T.D.)
Sent: Friday, November 01, 2002 9:41 AM
To: 'Nadeau, Brian'
Subject: RE: Updated: Project #11551: Decreasing Unwanted Brake Switch Logic S tates Team Meeting

Ok, I will keep your name on the project. The first order of team business is to agree on the Y=f(x) breakdown for each customer CCC code we will be using, as worksheets are develop I will send copies to you.

Tom Belanger
Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137966435@alphapage.airtouch.com
Pager: (313) 796-6435

-----Original Message-----

From: Nadeau, Brian [mailto:Brian.Nadeau@det.stoneridge.com]
Sent: Friday, November 01, 2002 8:10 AM
To: Belanger Jr., Thomas (T.D.)
Subject: RE: Updated: Project #11551: Decreasing Unwanted Brake Switch Logic S tates Team Meeting

Tom:
I will not be able to attend the first meeting, November 7, 2002.

Regards,
Brian W. Nadeau
Sr. Sales/Application Engineer
Stoneridge, Inc
248-324-3680

-----Original Message-----

From: Belanger Jr., Thomas (T.D.) [mailto:tbelange@ford.com]
Sent: Thursday, October 31, 2002 2:51 PM
To: Jendrusch, Tom (T.D.); Zuraw, Timothy (T.); Stollsteimer, Dale (D.O.); Blackburn, Thomas (T.J.); Lysik, Kevin (K.M.); Rossi, Roberto (R.A.); McCann, Mike (M.J.); 'brian.nadeau@det.stoneridge.com'
Subject: Updated: Project #11551: Decreasing Unwanted Brake Switch Logic S tates Team Meeting
Importance: High

When: Occurs every Thursday effective 10/31/02 until 2/13/03 from 1:00 PM to 2:00 PM (GMT-05:00) Eastern Time (US & Canada).
Where: Building #3 cafeteria

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Weekly Team Meeting for Six Sigma Project

From: Belanger Jr., Thomas (T.D.)
Sent: Friday, November 01, 2002 9:37 AM
To: 'Nadeau, Brian'
Subject: RE: 2L1T-13480-A ES

Great, Thanks.
Tom Belanger
Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email a text page to: 3137966435@alphapage.airtouch.com
Pager: (313) 796-6435

-----Original Message-----
From: Nadeau, Brian [mailto:Brian.Nadeau@det.stoneridge.com]
Sent: Friday, November 01, 2002 9:11 AM
To: Belanger Jr., Thomas (T.D.)
Subject: FW: 2L1T-13480-A ES

Tom:

Here's the ES you requested for the 6 terminal BOO.

Regards,
Brian W. Nadeau
Sr. Sales/Application Engineer
Stoneridge, Inc
248-324-3880

> -----Original Message-----
> **From:** Marin, Jorge
> **Sent:** Friday, November 01, 2002 8:47 AM
> **To:** Nadeau, Brian
> **Subject:** RE: 2L1T-13480-A ES

> Here it is.

> <<ES_28-112_FORD.DOC>>

> -----Original Message-----
> **From:** Nadeau, Brian
> **Sent:** Friday, November 01, 2002 8:21 AM
> **To:** Marin, Jorge
> **Subject:** 2L1T-13480-A ES

> Jorge:

> Can you send me the ES for the 6 terminal Brake On Off Switch,
> 2L1T-13480-A, in Word format?

> Regards,
> Brian W. Nadeau
> Sr. Sales/Application Engineer
> Stoneridge, Inc
> 248-324-3880

From: tbelange@ford.com
Sent: Thursday, October 31, 2002 3:23 PM
To: cdebiasi@ford.com
Co: tbelange@ford.com
Subject: Black Belt added to 6-Sigma Project, 11551

The 6-Sigma Project, 11551 has two Black Belts (one recording, one supporting) listed on the Project. Please contact the Recording Black Belt, Thomas Belanger Jr. with any questions.

If the project should have only one Black Belt (recording), please request that the supporting Black Belt be placed on the team in the Project Member role.

From: Heath, David (D.E.)
Sent: Thursday, January 09, 2003 8:10 AM
To: Belanger Jr., Thomas (T.D.)
Cc: Savage, Megan (M.M.)
Subject: RE: Polarity of BOO Switch Wiring.

Tom,

Any discussions on that subject would have be initiated by Karl Frank, Pollak. At that time RVT core was not helping us resolve production issues. I don't recall any documents on minimum gap other than they made a mean gap increase shortly into the 2001 MY as I recall to help us keep stoplamps off in plant.

David Heath

Taurus/ Sable PVT

NAC Elec. Systems

Phone: 404-669-1382

Fax: 404-669-1873

Pager: 888-517-9535

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Thursday, January 09, 2003 7:31 AM
To: Heath, David (D.E.)
Cc: Savage, Megan (M.M.)
Subject: Polarity of BOO Switch Wiring.

Dave, did you get a chance to verify that the BOO switch is wired correctly?

Also, I am looking into details of the switch design. I am asking what should be the minimum gap between the internal contacts when in the off position. Do you recall any historical discussions, or comments on an 8D which addresses this.

Tom Belanger

Black Belt Candidate- EESE-R&VT

(313) 248-4853, FAX (313) 248-4853

email & text page to: 3137966436@alphapage.airtouch.com

Pager: (313) 796-6436

From: Belanger Jr., Thomas (T.D.)
Sent: Thursday, January 09, 2003 7:31 AM
To: Heath, David (D.E.)
Cc: Savage, Megan (M.M.)
Subject: Polarity of BOO Switch Wiring.

Dave, did you get a chance to verify that the BOO switch is wired correctly?

Also, I am looking into details of the switch design. I am asking what should be the minimum gap between the internal contacts when in the off position. Do you recall any historical discussions, or comments on an 8D which addresses this.

Tom Belanger

Black Belt Candidate- EESE-R&VT
(313) 248-4853, FAX (313) 248-4853
email & text page to: 3137986435@alphapage.airtouch.com
Pager: (313) 786-6435

From: Heath, David (D.E.)
Sent: Thursday, January 09, 2003 8:08 AM
To: Palmer, Neal (N.M.)
Cc: Belanger Jr., Thomas (T.D.)
Subject: FW: Polarity of BOO Switch Wiring.

Neal,
I know you were working on this. Any results, yet?

David Heath
Taurus/ Sable PVT
NAC Elec. Systems
Phone: 404-669-1382
Fax: 404-669-1873
Pager: 888-517-9535

-----Original Message-----

From: Belanger Jr., Thomas (T.D.)
Sent: Thursday, January 09, 2003 7:31 AM
To: Heath, David (D.E.)
Cc: Savage, Megan (M.M.)
Subject: Polarity of BOO Switch Wiring.

Dave, did you get a chance to verify that the BOO switch is wired correctly?

Also, I am looking into details of the switch design. I am asking what should be the minimum gap between the internal contacts when in the off position. Do you recall any historical discussions, or comments on an 8D which addresses this.

Tom Belanger
Black Belt Candidate- EESE-R&VT
(313) 248-4863, FAX (313) 248-4863
email & text page to: 3137866435@alphapage.aitouch.com
Pager: (313) 726-6435

BOO Stop Lamp Switch - Taurus

Count of VIN showing repeat repairs (Grand Total >=2)

Count	VIN	Count
1	1FAFP53221G234817	5
2	1FAFP58S7YA189262	4
3	1FAFP58S8YA199399	4
4	1FAFP58S9YA128688	4
5	1FAFP58S1YA183106	4
6	1FAFP58S3YA217823	4
7	1FAFP58S8YG288974	4
8	1FAFP56U81A285609	4
9	1FAFP58S6YA218378	3
10	1FAFP58S8YA186156	3
11	1FAFP58S8YA184815	3
12	1FAFP58S8YA187026	3
13	1FAFP58S8YA198217	3
14	1FAFP58S5YA226610	3
15	1FAFP58S8YA187332	3
16	1FAFP58S8YA212309	3
17	1FAFP58S7YG203890	3
18	1FAFP58S8YA221480	3
19	1FAFP58S5YA217728	3
20	1FAFP58S8YA197183	3
21	1FAFP58S5YA216210	3
22	1FAFP58S8YA181838	3
23	1FAFP58S7YA208882	3
24	1FAFP58S7YG227600	3
25	1FAFP58S1YA148596	3
26	1FAFP58S5YG228314	3
27	1FAFP58S5YG221498	3
28	1FAFP58S7YA191503	3
29	1FAFP58S8YA189880	3
30	1FAFP58S0YA244039	3
31	1FAFP58S8YA184348	3
32	1FAFP58S0YA209288	3
33	1FAFP58S0YA209018	3
34	1FAFP58S5YG176952	3
35	1FAFP58S7YG198343	3
36	1FAFP56UX2A181843	3
37	1FAFP58S7YG215814	3
38	1FAFP58S0YG175219	3
39	1FAFP58S8YG176885	3
40	1FAFP58SXYA221001	3
41	1FAFP58SXYG156658	3
42	1FAFP58S8YG218787	3
43	1FAFP58SXYA213607	3
44	1FAFP58S8YG203058	3
45	1FAFP58SXYA211908	3
46	1FAFP58SXYA285967	3
47	1FAFP58SXYA200176	3
48	1FAFP58SXYA195237	3
49	1FAFP58U31A178086	3
50	1FAFP58SXYA183122	3
51	1FAFP58S8YG182826	3
52	1FAFP58S8YG203252	3
53	1FAFP58SXYG184646	3
54	1FAFP58S8YG203137	3
55	1FAFP58S8YG203969	3
56	1FAFP58S8YG173804	3
57	1FAFP58SXYG201871	3
58	1FAFP58U81A123897	3
59	1FAFP58SXYG226684	3

Note:

There were 1,794 vehicles with repeat repairs
There were 3,770 repeat repairs found

60	1FAPP55U71A245328	3
61	1FAPP5820YA208097	3
62	1FAPP5889YA205904	3
63	1FAPP5820YG208131	3
64	1FAPP5889YA184391	3
65	1FAPP5889YA182418	3
66	1FAPP5886YA221742	3
67	1FAPP5887YG227397	3
68	1FAPP5888YG182521	3
69	1FAPP5887YA215080	3
70	1FAPP5886YA221634	3
71	1FAPP5886YG190328	3
72	1FAPP5886YG188602	3
73	1FAPP5883YA189420	3
74	1FAPP5883YA168808	3
75	1FAPP5883YA188898	3
76	1FAPP5882YG288418	3
77	1FAPP5883YA199162	3
78	1FAPP5885YA211185	3
79	1FAPP5885YA211313	3
80	1FAPP5882YG203718	3
81	1FAPP5882YG203294	3
82	1FAPP5885YA217083	3
83	1FAPP5886YG204828	3
84	1FAPP5886YG171854	3
85	1FAPP5883YA212888	3
86	1FAPP5887YA170010	3
87	1FAPP5884YA200173	3
88	1FAPP5884YA206373	3
89	1FAPP5887YA173224	3
90	1FAPP5884YA211848	3
91	1FAPP5889YG174089	3
92	1FAPP5884YA227812	3
93	1FAPP5887YA221087	3
94	1FAPP5883YA208868	3
95	1FAPP5884YA263892	3
96	1FAPP5886YG208095	3
97	1FAPP5883YA208319	3
98	1FAPP5883YA208446	3
99	1FAPP5886YG202037	3
100	1FAPP5887YA182546	3
101	1FAPP5886YA167884	3
102	1FAPP5886YA221033	3
103	1FAPP5886YA208879	3
104	1FAPP5886YA205911	3
105	1FAPP5881YG188838	3
106	1FAPP5887YG188570	3
107	1FAPP5887YG188352	3
108	1FAPP5881YA232128	3
109	1FAPP5888YA200188	3
110	1FAPP5886YA220411	3
111	1FAPP5888YA221855	3
112	1FAPP5881YA211488	3
113	1FAPP5888YA148472	3
114	1FAPP5886YA218104	3
115	1FAPP5881YA208738	3
116	1FAPP5888YA207402	3
117	1FAPP5886YG198847	3
118	1FAPP5886YG102018	3
119	1FAPP5882YG186096	3
120	1FAPP5887YA228398	3
121	1FAPP5887YA227998	3

122	1FAPP56S6YA227037	3
123	1FAPP56S1YG226625	3
124	1FAPP56S6YA226085	3
125	1FAPP56S61A132848	3
126	1FAPP56S6YA212198	3
127	1FAPP56S2YA184362	3
128	1FAPP56S6YA184384	3
129	1FAPP56S6YA188141	3
130	1FAPP56S6YA189739	3
131	1FAPP56S6YA191837	3
132	1FAPP56S5YG188578	3
133	1FAHP56S42G156834	3
134	1FAPP56S6YA188285	3
135	1FAPP55S31A123323	3
136	1FAPP66SXYA160754	3
137	1FAPP56S6YA149308	3
138	1FAPP56S9YA189030	3
139	1FAPP53U01G138914	3
140	1FAPP56S02A214518	3
141	1FAPP56U6YA1B7011	3
142	1FAHP56S62A184634	3
143	1FAPP56SXYA139642	3
144	1FAPP53U63G130322	3
145	1FAPP56S9YG183273	3
146	1FAPP56SXYA197637	3
147	1FAHP56U63A124281	3
148	1FAPP53U91A193039	3
149	1FAPP56SXYA197329	3
150	1FAPP56U6YA183037	3
151	1FAHP56S01G278013	3
152	1FAPP56212A212180	3
153	1FAPP56211G241335	3
154	1FAPP56S6YA186888	3
155	1FAPP56SXYA188908	3
156	1FAPP53U71A204149	3
157	1FAPP56S6YA206982	3
158	1FAPP56S6YA209034	3
159	1FAPP56S6YA184228	3
160	1FAPP56S41G234313	3
161	1FAHP56S82G207623	3
162	1FAPP56SXYG227150	3
163	1FAPP56S6YA218300	3
164	1FAPP56SXYA189739	3
165	1FAPP56SXYA170180	3
166	1FAPP55S42G216141	3
167	1FAPP56SXYG227665	3
168	1FAPP56S6YA183793	3
169	1FAPP56SXYA214727	3
170	1FAPP56SXYA186844	3
171	1FAPP56SXYA213979	3
172	1FAPP56SXYA176315	3
173	1FAPP56SXYA176680	3
174	1FAPP56S7YA232897	2
175	1FAPP56S7YG158458	2
176	1FAPP56S7YG166914	2
177	1FAPP56S6YA198950	2
178	1FAPP56S7YA232588	2
179	1FAPP56S7YA232425	2
180	1FAPP56S7YA278070	2
181	1FAPP56S7YG169909	2
182	1FAPP56S6YA199089	2
183	1FAPP56S7YA232248	2

184	1FAFP5687YG160834	2
185	1FAFP5687YG254003	2
186	1FAFP5687YG180848	2
187	1FAFP5687YG180888	2
188	1FAFP5687YG167683	2
189	1FAFP5687YA240458	2
190	1FAFP5687YG240846	2
191	1FAFP5687YA261818	2
192	1FAFP5687YG227682	2
193	1FAFP5689YA188814	2
194	1FAFP5687YA251982	2
195	1FAFP5687YA253534	2
196	1FAFP5689YA198876	2
197	1FAFP5689YA207446	2
198	1FAFP5687YA232702	2
199	1FAFP5687YA238812	2
200	1FAFP5687YG182408	2
201	1FAFP5689YA198384	2
202	1FAFP5689YA184458	2
203	1FAFP5687YG104182	2
204	1FAFP5687YA249189	2
205	1FAFP5687YA258830	2
206	1FAFP5687YG210588	2
207	1FAFP5687YG165016	2
208	1FAFP5687YG201206	2
209	1FAFP5689YA188797	2
210	1FAFP5689YA188704	2
211	1FAFP5687YG201494	2
212	1FAFP5687YG201740	2
213	1FAFP5687YG221368	2
214	1FAFP5687YG190559	2
215	1FAFP5687YG203150	2
216	1FAFP5687YG190075	2
217	1FAFP5687YG212887	2
218	1FAFP5687YG221289	2
219	1FAFP5687YG213564	2
220	1FAFP5689YA187488	2
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223	1FAFP5687YG218198	2
224	1FAFP5689YA187308	2
225	1FAFP5687YG202712	2
226	1FAFP5687YG174260	2
227	1FAFP5689YA191229	2
228	1FAFP5689YA191909	2
229	1FAFP5687YG227304	2
230	1FAFP5687YG228481	2
231	1FAFP5687YG221874	2
232	1FAFP5687YG173872	2
233	1FAFP5689YA191468	2
234	1FAFP5687YG200717	2
235	1FAFP5687YG221635	2
236	1FAFP5689YA191943	2
237	1FAFP5687YG174284	2
238	1FAFP5687YG177688	2
239	1FAFP5687YG182512	2
240	1FAFP5687YA232232	2
241	1FAFP5689YA211334	2
242	1FAFP5687YG221440	2
243	1FAFP5687YG188729	2
244	1FAFP5689YA189027	2
245	1FAFP5689YA191442	2

246	1FAPP56S7YA188183	2
247	1FAPP56S7YA226477	2
248	1FAPP56S7YA184330	2
249	1FAPP56S9YG160166	2
250	1FAPP56S9YG169669	2
251	1FAPP56S7YA167177	2
252	1FAPP56S9YG156588	2
253	1FAPP56S7YA167602	2
254	1FAPP56S9YG106089	2
255	1FAPP56S7YA167609	2
256	1FAPP56S7YA182917	2
257	1FAPP56S9YA254992	2
258	1FAPP56S9YG160561	2
259	1FAPP56S7YA191214	2
260	1FAPP56S7YA191424	2
261	1FAPP56S9YA243694	2
262	1FAPP56S9YA232572	2
263	1FAPP56S7YA191666	2
264	1FAPP56S7YA192119	2
265	1FAPP56S9YA232281	2
266	1FAPP56S9YA232071	2
267	1FAPP56S7YA195070	2
268	1FAPP56S9YA264634	2
269	1FAPP56S7YA174674	2
270	1FAPP56S7YA166286	2
271	1FAPP56S7YA167074	2
272	1FAPP56S7YA167821	2
273	1FAPP56S9YG166235	2
274	1FAPP56S7YA169651	2
275	1FAPP56S9YG168224	2
276	1FAPP56S9YG168093	2
277	1FAPP56S7YA170136	2
278	1FAPP56S9YG162441	2
279	1FAPP56S7YA163923	2
280	1FAPP56S7YA174643	2
281	1FAPP56S7YA197210	2
282	1FAPP56S7YA174610	2
283	1FAPP56S7YA175174	2
284	1FAPP56S9YG161094	2
285	1FAPP56S7YA176776	2
286	1FAPP56S7YA161508	2
287	1FAPP56S7YA182288	2
288	1FAPP56S7YA182478	2
289	1FAPP56S7YA182531	2
290	1FAPP56S9YG160647	2
291	1FAPP56S7YA171495	2
292	1FAPP56S7YA226317	2
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295	1FAPP56S9YA214377	2
296	1FAPP56S7YA218105	2
297	1FAPP56S9YA213360	2
298	1FAPP56S7YA221117	2
299	1FAPP56S7YA221943	2
300	1FAPP56S7YA221991	2
301	1FAPP56S9YA212547	2
302	1FAPP56S7YA198957	2
303	1FAPP56S7YA226270	2
304	1FAPP56S9YA216025	2
305	1FAPP56S8YA106779	2
306	1FAPP56S9YA211284	2
307	1FAPP56S7YA227497	2

308	1FAPP66S7YA227884	2
309	1FAPP66S9YA208325	2
310	1FAPP66S7YA228456	2
311	1FAPP66S9YA208311	2
312	1FAPP66S7YA228588	2
313	1FAPP66S8YA208883	2
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316	1FAPP66S7YA212837	2
318	1FAPP66S7YA232182	2
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324	1FAPP66S7YA211807	2
325	1FAPP66S9YA216883	2
326	1FAPP66S7YA212726	2
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328	1FAPP66S9YA227890	2
329	1FAPP66S7YA213809	2
330	1FAPP66S9YA227829	2
331	1FAPP66S9YA227257	2
332	1FAPP66S7YA218323	2
333	1FAPP66S7YA216647	2
334	1FAPP66S9YA222172	2
335	1FAPP66S9YA218042	2
336	1FAPP66S7YA218882	2
337	1FAPP66S9YA231855	2
338	1FAPP66S7YA212272	2
339	1FAPP66S8YG158918	2
340	1FAPP66S8YA233841	2
341	1FAPP66S8YA234383	2
342	1FAPP66S8YA234538	2
343	1FAPP66S8YA241478	2
344	1FAPP66S8YA242140	2
345	1FAPP66S8YG130487	2
346	1FAPP66S8YG153780	2
347	1FAPP66S8YG166450	2
348	1FAPP66S82A177880	2
349	1FAPP66S8YG187084	2
350	1FAPP66S8YA232319	2
351	1FAPP66S8YG180758	2
352	1FAPP66S8YA160748	2
353	1FAPP66S8YG180812	2
354	1FAPP66S8YA180488	2
355	1FAPP66S8YG182401	2
356	1FAPP66S8YG184838	2
357	1FAPP66S8YG184987	2
358	1FAPP66S8YG185066	2
359	1FAPP66S8YG188232	2
360	1FAPP66S8YG168183	2
361	1FAPP66S8YA228118	2
362	1FAPP66S8YA220901	2
363	1FAPP66S8YA221434	2
364	1FAPP66S8YA158808	2
365	1FAPP66S8YA221790	2
366	1FAPP66S8YA221808	2
367	1FAPP66S8YA221837	2
368	1FAPP66S8YA221854	2
369	1FAPP66S8YA167781	2

370	1FAPP68S8YA225578	2
371	1FAPP68S8YA158789	2
372	1FAPP56S8YA225906	2
373	1FAPP56S8YA232548	2
374	1FAPP56S8YA228817	2
375	1FAPP56S8YA227802	2
376	1FAPP56S8YA228481	2
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378	1FAPP56S8YA232191	2
379	1FAPP56S8YA232224	2
380	1FAPP56S8YA157128	2
381	1FAPP56S8YA232238	2
382	1FAPP56S8YA150408	2
383	1FAPP56S8YA225662	2
384	1FAPP56S8YG222791	2
385	1FAPP56S8YG168980	2
386	1FAPP56S8YG202840	2
387	1FAPP56S8YG202871	2
388	1FAPP56S8YG202797	2
389	1FAPP56S8YG203208	2
390	1FAPP56S8YG203514	2
391	1FAPP56S8YG205897	2
392	1FAPP56S8YG210236	2
393	1FAPP56S8YG210897	2
394	1FAPP56S8YG202217	2
395	1FAPP56S8YG218893	2
396	1FAPP56S8YG202198	2
397	1FAPP56S8YG225870	2
398	1FAPP56S8YG227185	2
399	1FAPP56S8YG231927	2
400	1FAPP56S8YG288734	2
401	1FAPP56S8YA124579	2
402	1FAPP56S8YG128828	2
403	1FAPP56S8YG288774	2
404	1FAPP56S8YG280377	2
405	1FAPP56S8YA114288	2
406	1FAPP56S8YG218778	2
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408	1FAPP56S8YA217383	2
409	1FAPP56S8YG174211	2
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411	1FAPP56S8YG178982	2
412	1FAPP56S8YG178100	2
413	1FAPP56S8YA148438	2
414	1FAPP56S8YG178405	2
415	1FAPP56S8YA148212	2
416	1FAPP56S8YA139878	2
417	1FAPP56S8YG202556	2
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General Information 0170



Appendix N: Studies, Surveys, Investigations (Confidential)

Provided separately under request for confidentiality.