

SB-10053649-1137

Technical Service Bulletin

SUBJECT:	No:	TSB-13-35-004		
ACC/FCM/ASC	DATE:	October, 2013		
POSSIBLE D	DTCS STORED IN A	SC – ECU	MODE	L: 2014 Outlander
CIRCULATE TO:	[] GENERAL MANAGER	[] PARTS MANAGER	NAGER [X] TECHNICIAN	
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[] WARRANTY PROCESS	OR	[] SALES MANAGER

PURPOSE

Some vehicles may display the ACC, FCM, and/or ASC warnings and DTCs may be recorded in the ASC – ECU. The warnings occur under the following conditions:



- (1) When starting to climb a grade immediately after descending a steep hill with the Adaptive Cruise Control (ACC) engaged, the following messages may be displayed on the MID.
 - FCM SERVICE REQUIRED
 - ACC SERVICE REQUIRED
 - ASC SYSTEM SERVICE REQUIRED (with DTCs C1800, C1777)

The ECU determines this is abnormal acceleration and the system may enter "fail–safe" mode with ACC and FCM becoming inoperative.

(2) When driving in a lane with normal traffic flow, and an adjacent lane is jammed, FCM SERVICE REQUIRED, ACC SERVICE REQUIRED and ASC SYSTEM SERVICE REQUIRED may be displayed (with DTCs C1802, C1777).

The continued presence of objects creates continuous inputs to trigger FCM operation. The system determines this as an abnormal signal. The system may enter "fail–safe" with ACC and FCM becoming inoperative.

(3) ASC SYSTEM SERVICE REQUIRED may be displayed without DTCs.

This TSB instructs dealers to reprogram the ASC-ECU with new software to resolve mis-detections.

AFFECTED VEHICLES

2014 Outlander

Vehicles **with** Adaptive Cruise Control and Forward Collision Mitigation built before June 5, 2013 Vehicles **without** Adaptive Cruise Control and Forward Collision Mitigation built before August 27, 2013

Continued

Copyright 2013, Mitsubishi Motors North America, Inc.

(4076)

The information contained in this bulletin is subject to change. For the latest version of this document, go to the Mitsubishi Dealer Link, MEDIC, or the Mitsubishi Service Information website (*www.mitsubishitechinfo.com*)

REPAIR PROCEDURE

REQUIRED OPERATIONS

IMPORTANT: If an affected vehicle has any of the previously mentioned warnings illuminated <u>before</u> reprogramming and DTCs other than described above are stored in the ASC–ECU memory, diagnose and repair those DTCs per the service manual <u>before</u> reprogramming. **DO NOT** reprogram the ASC–ECU until the reason(s) for other DTCs being set is corrected.

OVERVIEW

- 1. Confirm your MUT-III is updated with the latest reprogramming database.
- 2. Reprogram the ASC–ECU with the new software. See the ASC–ECU Reprogramming Chart for new software information.

EQUIPMENT

The following equipment is needed to reprogram the ASC ECU.

- MEDIC laptop computer with A/C power adaptor 520924, or MIT547708, or MIT540031.
- VCI (Vehicle Communication Interface) MB991824 including:

 (1) MUT–III main harness 'A' (blue DLC connector) – MB991910
 (2) USB 2.0 cable – MB991827

or

- VCI LITE MB992744
 (1) VCI LITE main harness (blue DLC connector) MB992745
 (2) VCI LITE USB 2.0 cable MB992747
- "Engine Compartment/Control Module" label p/n MSSF024G00.
- MEDIC-3 update at 226 or higher.
- For Standalone MUT–III units, MUT–III Reprogramming Database N13101 or higher.

ASC-ECU REPROGRAMMING CHART

MODEL		DATA NO.	DISPLAY ON MUT-III AFTER REPROGRAMMING		
	FART NO.		New S/W Part #		
14 Outlander with ACC/FCM	4670A666	4670B063	4670 0 00 200		
	4670A770	40708003	4070A33200		
14 Outlander w/o ACC/FCM	4670A756	4670A557	4670A99000		

DATABASE CONFIRMATION



For MEDIC 3 users only: (MUT-III users go to step 5)

3. Verify the MEDIC 3 is at version 3.2 and at update 226 or higher.

If your <u>MEDIC 3 update is at least 226</u>, continue with the Reprogramming Procedure on page 4.

If your <u>MEDIC 3 update is below 226</u>, update your MEDIC 3 as follows.

. Select the MEDIC 3 Admin tab and click on "Updates."

 If the MEDIC update screen advises updates are available, click the "Begin" button. After all updates are complete, <u>GO TO THE REPROGRAMMING</u> <u>PROCEDURE ON PAGE 4.</u>

Sy	stem functi	on /	ECU Reprogra	imming	N1310	J1 🛰	CD Ver.:N13101	5
No.	Data No.	System	New ECU PIN	New SW Part	Current ECU P/N	Current SW/ Part	-	
01	46708063	ABC	4670A770 4670A666	4570429200	4670A770 4670A666	4570477000 4570477000	14 OUTLANDER WITH e-Assist Corrects ACC system failure (C1800/C1777) on steep	
						4570455500	behind decline. Correction for ACC system failure (C1802/C1777) Correction for ASC wi indicator mis-illumination. (no DTCs)	
62	46704557	ASC	46704760	4570499000	46704760	4670476000	14 OUTLANDER WITHOUT e-Assist Com	
			4670A756	4570499000	4670A756	4570A75500	ASC warning indicator mis-illumination. (no	
			46704664	4570499000	46704564	4670466400		
63	10120831	ENGNE	1850C044	1860004401	1860C044	1960C04400	13/14 LANCER 4811 D4 TC TC-85T Com mis-detection of longue monitoring system. (P0514,P1241)	
04	10520030	ENGINE	1850C045	1050CD4601	1850CD46	1860C04600	13/14 LANCER EVOLUTION 4011 D4 TC TC Correction of parameter for DTC/P068.P12 / air flow sensor plausibility. Correction for mis-detection of torque monitoring system. (P061A-P1241)	•
66	10120029	ENGINE	1860C045	1850C04501	1850C045	1850C04500	13/14 LANCER EVOLUTION 4811 D4 TC NT Correction of parameter for DTC/P0068,P12 Jair flow sensor plausibility.	
05	10120020	ENGINE	18508790	1050879001	10508790	1050879000	12/12 5 LANCER 4811 D4 TC TC-SST Co for mis-detection of forque monitoring system (P051A,P1241)	*
07	16626827	ENGINE	18508789	1850878901	18508789	1850878900	12 LANCER EVOLUTION 4811 D4 TC TC-5 Correction of parameter for DTC/P0058/P12	
	4	4		4		•	••	
Ven	sion in the cas	e of CMU-ECL	h					

 <u>STANDALONE MUT-III SCAN TOOL VIEWER (STV)</u> <u>ONLY: (MEDIC 3 USERS GO TO THE</u> <u>REPROGRAMMING PROCEDURE ON PAGE 4)</u>. Verify your MUT-III has the most current version of the reprogramming database:

- a. From the MUT-III Main Page:
 - Select "Special Function"
 - Select "ECU Reprogramming"
 - Select "Database File Display-CAN"
 - Confirm the database number displayed at the top right of the chart is **N13101 or higher**
 - (1) If the database number displayed on your MUT–III is **N13101** or higher, continue to the Reprogramming Procedure on page 4.
 - (2) If the database number displayed on your MUT-III is lower than **N13101**, locate the N13101 Reprogramming CD and follow the instructions on the CD label to update your MUT-III.

REPROGRAMMING PROCEDURE

CONNECT A BATTERY CHARGER TO THE VEHICLE'S BATTERY DURING THE REPROGRAMMING PROCEDURE. DO NOT ALLOW THE BATTERY CHARGER TO TIME OUT. BATTERY VOLTAGE (AS MEASURED AT THE BATTERY POSTS WITHOUT ELECTRICAL LOAD) MUST BE KEPT AT 12.4V OR HIGHER IN ORDER TO REPROGRAM THE ASC-ECU. MEASURE THE BATTERY VOLTAGE AND CHARGE AS NECESSARY.

NOTE: VCI Stand-alone reprogramming is not available for this procedure. The laptop and the VCI must remain connected for the entire procedure.

Connect the equipment as follows:



- Turn the laptop computer on. If you're running on battery power and the charge indicator in the lower right hand corner of the screen does not show a full charge, it is recommended that either the laptop battery be charged prior to beginning, or that reprogramming be completed with the A/C power adaptor connected to the laptop.
- Connect the USB cable to the VCI.

- When the laptop displays the MUT-III main screen, connect the USB cable to the laptop.
- Connect the MUT-III main harness (blue DLC connector) to the VCI.
- Connect the blue connector of the MUT-III main harness to the vehicle's data link connector.
- Turn the VCI power switch ON. Verify the indicator lamp in the upper right corner of the screen is green.

DO NOT DISTURB THE HARNESS CABLES OR CONNECTIONS.
THE CONTROL UNIT TO LOSE DATA OR PREVENT FUTURE REPROGRAMMING. IF THE USB CABLE IS DISONNECTED DURING THIS
PROCEDURE, A WARNING MESSAGE WILL DISPLAY.

ECU reprogramming



Power Down Maintenance TIR - Technical Information Retreval Special Function N402000000 Microsoft	VEDICTubeial StV Second Revice T CL-Meubeix Dealer Link AMeubeix Special Service T Internet Explorer	ier STV 🏦 Video Pityer 🔅 Adabe Reader 🗼 MEDIC
System function	n Measuremen	t function
Drive Record	ler (Display only)	SWS monitor Drive Recorder (Display only)
ECU rep	rogramming	All DTCs
V.C.I. Stand- (Data Trans	alone Diagnosis fer to PC-card)	
Please select function.		
1 1		

- Conduct the following steps to reprogram the ASC-ECU.
- a. Turn the ignition switch to the ON position. If the vehicle is equipped with the F.A.S.T. System, the transmitter must remain in the vehicle for the entire procedure.

For vehicles equipped with OSS, press the START/STOP button twice without applying the brake. The LED in the button should be green.

- b. If using MEDIC 3, from the main page, click the MUT–III STV icon at the top center of the screen.
- c. From the MUT-III Main Menu, select "Special Function."
- d. Select "ECU Reprogramming."

Ê

₽) TIR	Power Dow	n 🍓 Maintena	nce 🤿 MED K	Tutorial 📓 M	AJT-III STV Maubiahi Speci	Service To	er STV 🚦	Kideo Plays	r 🙆 Adobe Viewer	Reader 🥻	MEL	
UR		ing-N402001500 - I	Accord Internet	Explorer								
/ 8	System f	function E	CU Reprogra	imming			_					
	A	utomatic R	eprogram	ming (K-	line)		,	Automati	c Reprog	Iramming	(CAN)	
		Database	File Displ	ay (K-line)			Databa	ase File C	Display (C	AN)	
	The	following fu	nction is fo	or K-Line (communi	ication	's Renr	orammin	0			-
	The	following fu	Search	A Re-Line (ication	sitepi	Me	mory car	d transfer	r	1
		Bonrogram	ming Dat	a Colocti								
		Keprogram	ining Dat	a selection	on							
Pleas	se select fi	unction.			?							
MIT	SUBISHI EL	ECTRONIC DIAGNO:	STIC AND INFORM	IATION CENT 🙏	ID: M299332N	 152 	20 22 🙏	DOWNLOAD N	1345 🗼 MCP2 -		10000	🌛 3:20 PM
V	Power Dow	n 🔥 Mantena	nce 🛛 😵 MED K V HDL - Haubah	(Tulorial 🛛 📕) (Dealer Link 🛃)	AUT-III STV Nouben Spece	Service Too	er STV 🚦	Mdro Plays rehicle Scan To	r 🙆 Adıbe ol Viewer	Reader 🤳	MEL	IIC
CWS	WATSHU	2009MY - ECU	Reprogramming	- N4020015	130							
<u> </u>	System	n function	ECU Re	programmin		utomatic	Reprog	ramming (C	AN)			
		Vel	hicle Informati	on								
	Model	Year 2009										
L	Model C	Code CW5W	XTSHL#									
							_				_	
		Syste	sm List					Load	ling Option S	etup		
	No.	\$	System Name				OPC	Option	n Name	With Opti	ion	
	1	MFI										
	2	FLCATICVTO	IC.SST							<u> </u>		
ŀ	-											
┢	3	ABSIASCIAS	CWSS									
	4	SRS-AIR BAG									_	
	5	Air Conditione	r		\blacksquare						$\overline{\nabla}$	
	6	ETACS								<u>ل</u>		
						4						
		and press Cirk bud	on. If you denect	S	2					9		
ACTO		CTRONG DUGLOCT	C 100 2400001		17. M.M.M.M.			COUNT OND IN			D.O.A.O	
grad e	f vehicles i	edermation - NSOOC	100000 - Microsol	h lotenet Eigh	***							
		DEST	IN	MMINA								
	-			1	1	_						
	-	VIN		\leq	-	J						
	T	CLAS	s	1								
		MODEL 1	EAR	i i								
		MODE	iL									
		ENGIN	E									
		TRANSMIS	SION				-	•				
							5					
								۲ (
la -		abieles int	adday March	le di				\mathbf{N}				_
inpl	ut the V	enicies intórr	nacioni that i	ans alagnos	ed.		1	-	0	5		
	15						V	-24	- 0			

e. Select "Automatic Reprogramming (CAN)."

f. Click on the car icon at the bottom of the page.

g. If the VIN or vehicle description displayed does not match the vehicle you are working on, click on the eraser icon at the bottom of the page to erase vehicle data.

Then click the VIN button.

		5.00		5	0	'	0	9	0	
Q	w	Е	R	т	Y	U	I	0	Ρ	
A	s	D	F	G	н	J	к	L		
z	х	с	v	в	N	м			-	١
								Space	Back S,	Clear



	Valucie Wormeson					
Mode	Code OFBNOCTXP2L#					
	Scalium List			Londing Option 2	and a	
1540	System Name		OPC	Option Name	Wite Option	
	MR					
2	ELCATIONTIC-551					A
э	ECPSWWS					
4	ABSABCIASTONISS					
5	SRS-AR BAG	v				T
4	Air Conditioner		44	1		
					1	-

h. Click the icon in the lower RH corner of the screen to have MUT–III automatically read the VIN.

If a message appears saying the VIN cannot be input automatically, manually type the 17 digit VIN into the VIN field at the top of the page.

Make sure the VIN is correct and click the check mark.

i. Confirm all data matches the vehicle and click the check mark at the bottom of the page.

j. MFI should be highlighted as the default. Scroll to and click ABS/ASC/ASTC/WSS to highlight it.

Click the check mark at the bottom of the page.







k. A message will advise the system will "Automatic search the data."

Click the check mark to continue.

ECM TO LATEST VERSION

If a "Complete Reprogramming" message <u>does not</u> appear, continue with step "l".

If the message seen at left is displayed, the ECM software is already at the most current level. Do not continue with the reprogramming procedure. This TSB does not apply.

Click the check mark to clear the window, then click the Home icon at the lower left corner of the screen to return to the System Select main page.

Turn the ignition switch to the OFF position and disconnect the MUT–III. Turn off and disconnect the battery charger. Conduct normal diagnosis per the service manual.

I. The Automatic Reprogramming (CAN) database screen will display.

Confirm the database number at the top right of the table is **N13101** or higher.

If more than one row is displayed in the table, refer to the ASC–ECU Reprogramming Chart on Page 2 to select the correct row.

Click on the row to highlight it.

Click the check mark to continue.



*

- m. A message will ask you to "Check reprogramming data."
- n. Click the check mark to begin reprogramming.

Reprogramming will take up to 5 minutes to complete.

- o. A "Completed" message will display when ASC-ECU reprogramming is successfully completed. Confirm the "New S/W P/N" displayed matches the table at the beginning of this TSB.
- p. The message advises you to turn of the ignition for at least 8 seconds. Once the time has passed, turn the ignition on again.
- 2. Click the check mark in the window to return to the System Function screen.

Click the Home icon in the lower left corner of the screen to return to the MUT-III main menu

- 3. Using MUT–III, check and erase ALL DTCs from all systems as follows.
 - a. Select "Special Function."

💕 Power Down 🔧 Maintenance 😵 MEDIC Tutchal 🗸 MATT-III STN 2) TR-Technical Information Reteval 🔯 MDC - Misubert Dealer Link 🗼 Misubert S	TV 🖉 Rader STV 🏦 Video Payer 🖸 Adobe Reader 🗼 MEDIC
System function Mean	asurement function
Drive Recorder (Display only)	SWS monitor Drive Recorder (Display only)
ECU reprogramming	All DTCs
V.C.I. Stand-alone Diagnosis (Data Transfer to PC-card)	
Please select function.	
谕	
MITSUBISHI ELECTRONIC DAGNOSTIC AND INFORMATION CENT , ID: M288	19320 A 191930 A DOWNLOAD MAIS A MORE 195 9 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Power cover Section Research Power cover Section Research Power cover Power Power cover Power cover	Social Server Tools SHUT-LILI Scan Tool Viewer
System function All DTCs Erase and Read all I	IDTCs
System List	Model Year C Up to 2005MY
Select System Name Results	From2006MY
Meter	Model Name LANCER EVOLUTION (CZ#)
Steering Angle Sensor	Model Year 2008
AND	Model Code CZ4ASNGFZL#
AUDIO	
	-
EAST.IMMO/Keyless/TPMS (Sele	
ОСМ	v
SATELLITE RADIO	
Select checking systems.	Select option.
1 1 S 7	2 📿 🛥 🖂 🗖
METSUBLISHE ELECTRONIC ELARMOSTIC AND DIFFORMATION CENTER 🙏 ID: Make	
MERIC MISUBSH ELECTRONIC DIAGNOSTIC INFORMATIO	ON CENTER DECOMPOSITION UNITED SYSTEM
Hume Admin TIR MOL SST	MUT & Raider ASA-CAPS Report Document Video
System function / All DTCs / Erase and Read all C	DTCs
System List	Model Year Up to2005MY
Several System Name Results	From2006MY Vetrale Information
	Model Name OUTLANDER (GF#)
TPMS (with E & S.T.)	Model Year 2014
Mater	Model Code GF4WXLDYZL#
Stearing Ande Seren	Loading Option Setup
Anno	OPC Option Name Proprie
	CAU Display Ausio
	CAU CD AUDIO
Antin (Nation Antio)	
Select checking systems.	Select option.
101 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 🗸 🕰 🗹 🗌
Version 3.2 Update 222 Today is 10/00/2013 9:50:32 AM	TET 😲 💽 👗 🕹 🖓 🚱

b. Select "All DTCs," then select "ERASE AND READ ALL DTCS."

- c. The "System List" on the left side of the screen will have all selections checked. <u>Do not</u> change these selections. DTCs may be set if the vehicle is equipped with options that are unchecked.
- d. If the check mark at the bottom of the screen is highlighted, click it and proceed to step 4. If not, proceed to step e.
- **NOTE:** A "Loading Options Setup" list on the RH side of the screen must be completed for Outlander models. For these models, the check mark at the bottom of the page is not highlighted (inactive) at this time. It will activate when step e is completed.
- e. In the left column, scroll to and click "AUDIO (Display Audio)". In the right column, check the correct option code from the Loading Options Setup list. This will activate the check mark at the bottom of the page.
 - Vehicles with DISPLAY AUDIO or MMCS Navigation (touch screen units), select DAU.
 - Vehicles with CD AUDIO (no touch screen), select CAU.

elect	System Name	Results	Mode	el Year (Up to2005M	IY IY
~	MEL			Vehi	cle Information	
~	ELC-AT/CVT/TC-SST			Ulama OUT	LANDER (GF#)	
4	CRUISE CONTROL	AI DTCA		2014	AVTYD71 #	
~	ECPS/4WS	Barl Par Al Co Alt de R	10a	GPO	ITATAT LE	
~	ABS/ASC/ASTC/WSS (A.S.)	N	>			
~	SRS-AIR BAG	15				
~	Air Conditioner	VX				
~	Lane Keep		_	-		
elec	t checking systems.					

- A window will pop up asking you to confirm DTC erasing. Click the check mark for DTC erasing and reading to begin.
- When DTC erasing is completed, a window will display.
 - a. If DTCs return after reprogramming, click the check mark to clear the window. Diagnose and repair per the Service Manual.
 - a. If DTCs do not return, click the check mark to clear the window, then click the home icon at the lower left of the screen to return to the main menu.
- Turn off the ignition switch and disconnect the MUT–III. Turn off and disconnect the battery charger.
- 7. Start the engine to confirm proper operation and that ACC, FCM, and ASC warnings are not displayed on the MID. Diagnose and correct any DTCs that return.

PARTS INFORMATION

No parts are required.

WARRANTY INFORMATION

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this TSB and submit a normal warranty claim.

Reprogram ASC ECU

Nature Code: 51Cause Code: 605Labor Operation No.: 354520 13Time Allowance: 0.3 hr.

Warranty Coverage: 5/60 BASIC Coverage