

SUBJECT:			No:	TSB-16-22-002
COLD ENGINE	START (2009 – 2010	MODELS) -	DATE:	July, 2016
	REVISED	,	MODE	L: See below
CIRCULATE TO:	[] GENERAL MANAGER	[X] PARTS MANAGER		[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY PROCES	SOR	[] SALES MANAGER

This bulletin supercedes TSB-14-22-004, issued September, 2014, to revise specific steps for selecting reprogramming data in the "ECU Reprogramming" section. Revisions are italicized and indicated by **◄**.

PURPOSE

On affected vehicles equipped with W6DGA TC–SST transmissions, the TCM quickly engages and disengages 5th gear to determine whether the vehicle is moving. Noises can be heard as the shift fork attempts to move from neutral to 5th gear, and back to neutral immediately following engine start after an extended time being parked (e.g., overnight parking).

This TSB instructs technicians to reprogram the TCM with new software to prevent gear noise by eliminating the 5th gear vehicle speed check.

This TCM software update fixes a program fault unrelated to any emission or diagnostic performance.

AFFECTED VEHICLES

2009 – 2010 Lancer Evolution equipped with W6DGA TC-SST transmission 2009 – 2010 Lancer/Lancer Sportback Ralliart Edition equipped with W6DGA TC-SST transmission

2009 - 2010 Lancel/Lancel Sponback Haman Lumon equipped with WobCA

REQUIRED OPERATIONS

IMPORTANT: If an affected vehicle has a Malfunction Indicator Lamp (MIL) illuminated <u>before</u> reprogramming, and DTCs are listed in TCM memory, diagnose and repair those DTCs per the service manual <u>before</u> reprogramming. **DO NOT** perform reprogramming until the reason(s) for DTCs being set is corrected.

EQUIPMENT

The following equipment is needed to reprogram the TCM.

- VCI (Vehicle Communication Interface) or VCI Lite MB991824 or MB992744.
- MEDIC Laptop/Tablet with A/C power adapter 520924, or FZG1MK2.
- MUT-III main harness 'A' (blue connector at the DLC end) MB991910 or MB992745.
- USB 2.0 cable MB991827 or MB992747.
- "Engine Compartment/Control Module" label p/n MSSF024G00.
- MEDIC 3/4 update at **396** or higher.
- For Standalone MUT–III units, MUT–III Reprogramming Database **N16031** or higher.

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Continued

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). (4434)

REPROGRAMMING CHART

Database No. N16031

MODEL	DATA No.		DISPLAY ON I REPROG	MUT-III AFTER RAMMING
		PANT NO.	Old S/W Part #	New S/W Part #
09 Lancer Evolution equipped with W6DGA TC-SST	8631B001.cff ↓	8631A379 8631A763 8631A827 ↓	8631A3790C 8631A8630A 8631A8630B 8631A8270A	8631A8270B ↓
10 Lancer Evolution equipped with W6DGA TC-SST			8631A8270A	
09 Lancer Ralliart equipped with W6DGA TC-SST	8631B002.cff ↓	8631A513 8631A860 ↓	8631A5130C 8631A5130E 8631A8600A	8631A8600B ↓
10 Lancer/Lancer Sportback Ralli- art equipped with W6DGA TC-SST			8631A8600A	

REPAIR PROCEDURE

NOTE: Reprogramming the TCM using the latest database (i.e. N16031) includes all past and current reprogramming for TSBs of affected vehicles. It is not necessary to reprogram the TCM for each previous TSB.



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

1. <u>If using MEDIC 3:</u> Verify your MEDIC is at version 3.1 or higher and at update *396* or higher.

If your **MEDIC 3 update is at least 396**, continue with the Reprogramming Procedure.

If your <u>MEDIC 3 update is below 396</u>, update your MEDIC 3 as follows.

2. <u>If using MEDIC 4:</u> Your tablet PC was shipped with the required software.





Syn	stem function	on /	ECU Reprogra	mming /	Database File D	Hisplay (CAN)		
							CD Ver.:N14051	5
NO.	Data No.	System -	New ECU PIN	New SAV Part	Current ECU P/N	Current SAV Part No.*	Contents	/
01	86310413	10-661	6631A379	8631A3790E	8631,4379	8631A37800 8631A37800 8631A37808 8631A37808 8631A37808	BELANCER EVOLUTION 4811 D4 TCSi Countermeasures for ratte noise durt	24
03	16620933	ENONE	18600298	1865C29801	18600298	1860029600	N16031	
03	186209311	ENONE	18600287	1860029701	18600297	1880C29700	1110031	
							monitor(P00580 and torque monitor(P061A) countermeasure of lighting of MIL by dual 02 monitor(P2097).	and and
04	10020045	ENONE	1660C038	1060003682	1960C036	1860C03601 1860C03600	13/14 LANCERLANCER SPORTBACK 4811 The countermeasure for rough kiting in Puer	
05	12620044	ENONE	19608731	1060873102	18608731	1860873101	12/12 S LANCER LANCER SPORTBACK 48 CVT The Lourdenmeasure for rough liding Rice	
06	10620043	ENONE	10600065	1062836506	10008385	1860836525 1860836534 1860836533 1860836533	11 LANCERBLANCER BPORTBACK 4811 D The countermeasure for rough iding in Pue	44
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For MEDIC: Select the Admin tab and click on "Updates."

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

- STANDALONE MUT–III SCAN TOOL VIEWER (STV) ONLY: (MEDIC USERS GO TO THE REPROGRAMMING PROCEDURE). Verify that your MUT–III has the most current version of the reprogramming database:
 - a. From the MUT-III Main Page:

5.

- Select "Special Function"
- Select "ECU Reprogramming"
- Select :Database File Display–CAN"
- Confirm the database number displayed at the top right of the chart is **N16031 or higher**
- If the database number displayed on your MUT–III is *N16031* or greater, continue to the Reprogramming Procedure on page 4.
- (2) If the reprogramming database number displayed on your MUT–III is lower than *N16031*, locate the reprogramming CD containing database *N16031* and follow the instructions provided with the CD 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 TCM. MEASURE THE BATTERY VOLTAGE AND CHARGE AS NECESSARY.

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

Connect the equipment as follows:



- Turn the 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 PC battery be charged prior to beginning, or you should complete this procedure with the A/C power adaptor connected to the PC.
- Connect the USB cable to the VCI (or VCI-LITE).
- When the PC displays the MUT-III main screen, connect the USB cable to the PC.
- 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.

ECU Reprogramming

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







- 1. Conduct the following steps to reprogram the TCM.
 - 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.
 - b. If using MEDIC, from the main page, click the MUT–III STV icon at the top center of the screen to open MUT–III.
 - c. From the MUT-III Main Menu, select **Special Function**.
 - d. Select ECU Reprogramming.

e. Select Automatic Reprogramming (CAN).

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	Sj	stem List				Model Ye	Har	Up to	2005MY	
1 MFI		_						From	2006MT	
2 ELC	AT/CVT/TC	-SST					V	ehicle Informat	ion	
3 Shift	t Lever				-	Model Nar	ne LA	NCER EVOL	UTION	
4 CRU	JISE CONTR	OL				Model Ye	M 20	08		
5 ABS	SASC/ASTC	WSS			L	Mouercov	se [**	(49458811-1-655-		
6 AYC	ACD									
7 SRS	S-AIR BAG									
8 Air (Conditioner									
9 ETA	KCS .						ĻĻ			
10 Meb	er			ľ			\ /			
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1 Q A	W S	E D	R F	G	Н	J	к	L		,
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1 Q A Z	W S X	E D C	R F V	G B	H N	J M	к	L ,	-	١
1 Q A Z	W S X	E D C	R F V	G B	H N	J	к	L , Space	- Back Sp	۱ Clear

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f. Click 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 the eraser icon at the bottom of the page to erase vehicle data.

Then click the **VIN** button.

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 enter 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.

DESTIN MMNA VIN JA32W8FV8CU009890 TYPE CZ4A CLASS SNGFZL# MODEL YEAR MODEL LANCER EVOLUTION ENGINE/MOTOR 4811 (2.0, D4, MFI, MIVEC, IC, TIC) TRANSMISSION W5M6A (5M/T-4WD) Ø È 2. System function ECU Reprogramming Automatic Reprogramming (CAN) Model Year 2008 Model Code CZ4ASMPFZL# Shift Lever ABS/ASC/ASTC/WSS 4 AYC/ACD 5 SRS-AIR BAG 6 6 4 3. Auto matic Reprogramming (CAN) Model Year 2008 Model Code CZ4ASMPFZL# ? Automatic search the data. Automatic search the Reprogramming data. Check the V.C.I. and harness connecting then press the OK button. No With Op 2 ELC-AT/CVT/TC-SS 3 Shift Lever 4 BS/ASC/ASTC/WSS 5 AYC/ACD

4

6 SRS-AIR BAG

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

Select **ELC-AT/CVT/SST** and click the **check mark** to continue.

In the "Automatic search the data" dialog box, click the **check mark** to begin a search for reprogramming data.

AASMPFZL#2008MY - EC System function Ve Model Year 2008	U Reprogramming N4020	01513C ming Autom	atic Reprogramming (CAN	0		4.	A d nece
Model Code CZ4A:	SMPFZL#	sary reprogramming.					(
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1 MFI		base for this EC ECU Part No.:8	CU. 631A379				
2 ELC-AT/CVT	TC-SST	3/W Part 1400	631A3730C				
3 Shift Lever 4 ABS/ASC/AS					_		
5 AYC/ACD		•		2	~		
6 SRS-AIR BA	}			\sim			
onfirm model and press OK bu	ton. If you select other mode	, press Model Informa	ion Display' button.		_		
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A dialog box advising that reprogramming is not necessary will appear. Click the **Data Screen icon** (<u>not</u> the check mark).

Once the **Automatic Reprogramming (CAN)** screen appears, all data contained in the data storage system is displayed.

To access the needed TC-SST data, Click the **Data Drive icon** at the bottom of the screen.

Click on the file folder icon at the bottom of the screen.

Scroll down the **Directory List** until **MUTSW** is displayed.

◄

Select **MUTSW** and click the **file folder** icon at the bottom of the screen.



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The Daytime Running Lights and both the engine and condenser fans will automatically be turned on during reprogramming. Care should be taken to insure nothing gets caught in the moving blades. The radio will be turned off and you will also hear a chime in the interior for a short period of time. These are normal conditions.

	System function / ECU Reprog	gramming 🖌 Automatic	Reprogramming (CAN)	19. Ond box	ce pro
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	ELC-AT/CVT/TC-SST		Model Name OUTLANDER SPORT / RVR Model Year 2014	d.	lf th
ł	CRUISE CONTROL		Model Code GA2WXTXHZL#		hig
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1	Select checking systems.				
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- 19. Once programming is finished, the **Completed** dialog box is displayed.
 - **NOTE:** Confirm the TCM part number and software part number match the Reprogramming Chart listed earlier in this TSB.

Click the **check mark** to continue.

- 20. Turn the ignition to LOCK (OFF) position for at least 8 seconds.
- 21. Click the UP arrow at the lower left corner of the page to return to the System Function page.
- Using MUT–III, check and erase ALL DTCs from all systems as follows.
 - a. Select "Special Function."
 - 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 move ahead to step 6. If not, continue with sub-step e.

elect	System Name	Results		Mode	H Year	Up to From	2005MY 2006MY	
	ETACS					Vehicle Informati	ion	
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	steering Angle Sensor			Model Code GA2WXTXHZL#				
~	4WD				Lo	ading Option Setu	p	
~	LIN			OPC	Opt	tion Name	With Option	
~	F.A.S.T./MMO.Keyless/TPMS/JMM			VE2	110 111	,		
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System function All DTCs Erase and Read all DTCs Model Year Up to2005MY 0 From2006MY ~ ACS ~ ~ ering Angle Sensor All DTCs ~ Start the All DTCs Are you sure? ~ ~ ASTA ~ ~ осм Select option. Select checking systems 4 Â

- e. In the left column, scroll to and click FAST/IMMOB/KEYLESS/TPMS. In the right column, check the correct option code (VF#) from the Loading Options Setup list. This will activate the check mark at the bottom of the page.
 - Vehicles with regular keyless entry (buttons on a multi-function key), select VF2.
 - Vehicles with F.A.S.T. Key, select VF3.

Click the check mark to continue.

23. A window will pop up asking you to confirm DTC erasing. Click the check mark for DTC erasing and reading to begin.

24. 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.
- b. 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.
- 25. Turn off the ignition switch and disconnect the MUT-III. Turn off and disconnect the battery charger.

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 bulletin and submit a normal warranty claim using the following information.

TCM Reprogramming for gear noise at cold start up.

Nature Code: 05P

Cause Code: 490

Labor Operation No.: 228502 13

Time Allowance: 0.3 hr.

Warranty Coverage: Powertrain Coverage – Refer to the Superscreen for individual vehicle warranty coverage terms.

Special Warranty Information: Normal warranty procedures apply.