



Technical Service Bulletin

SUBJECT: TC-SST TRANSMISSION GEAR NOISE AFTER COLD ENGINE START (2009 – 2010 MODELS) – REVISED			No: TSB-16-22-002
			DATE: July, 2016
			MODEL: See below
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> 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

REQUIRED OPERATIONS

IMPORTANT: If an affected vehicle has a Malfunction Indicator Lamp (MIL) illuminated before reprogramming, and DTCs are listed in TCM memory, diagnose and repair those DTCs per the service manual before 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.

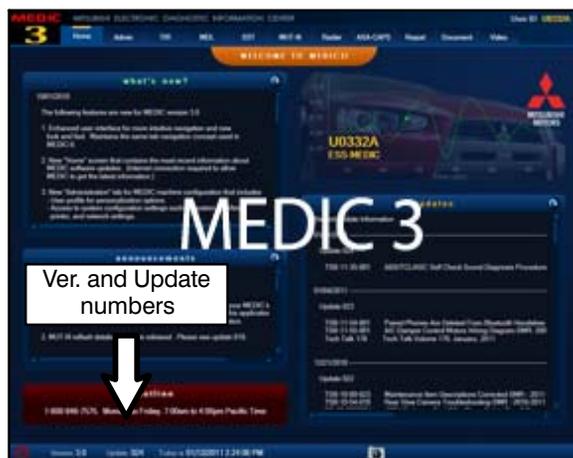
REPROGRAMMING CHART

Database No. N16031

MODEL	DATA No.	NEW PART NO.	DISPLAY ON MUT-III AFTER REPROGRAMMING	
			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 Ralliart 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.



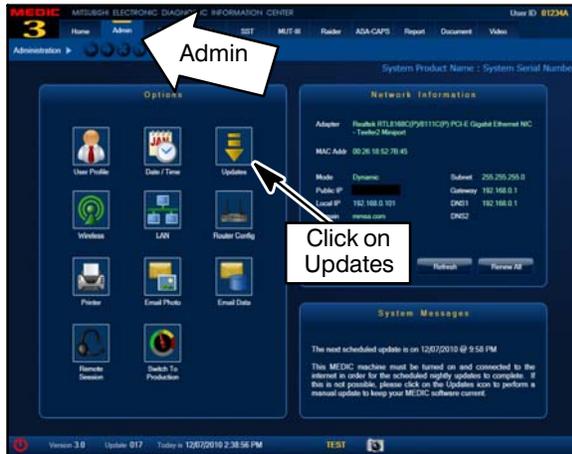
For MEDIC users only: (MUT-III users go to step 5)

1. If using MEDIC 3: Verify your MEDIC is at version 3.1 or higher and at update 396 or higher.

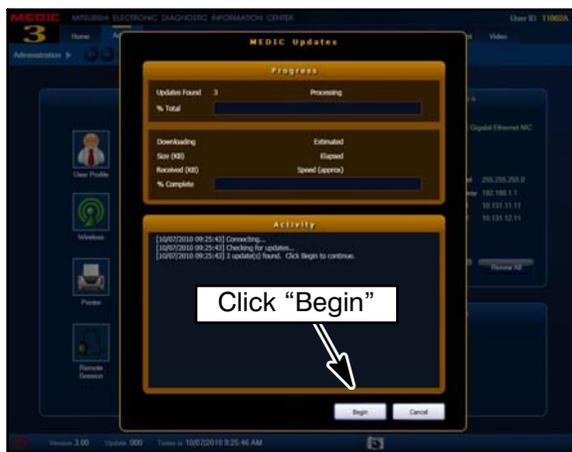
If your **MEDIC 3 update is at least 396**, continue with the Reprogramming Procedure.

If your **MEDIC 3 update is below 396**, update your MEDIC 3 as follows.

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



3. For MEDIC: Select the Admin tab and click on “Updates.”



4. If the MEDIC UPDATES screen advises updates are available, click the “Begin” button. After all updates are complete, **GO TO THE REPROGRAMMING PROCEDURE.**

ECU Reprogramming - N42201516C

File	Data No.	System	Name ECU File	New SW Part No.	Current ECU File	Current SW Part No.	Description
01	18029413	TC-ESP	8831A378	8831A378E	8831A378	8831A378D 8831A378C 8831A378B 8831A378A	08 LANCER EVOLUTION 4B11 C411 C1 The customer measure for rabs noise reduction
02	18029932	ENGINE	1800C298	1800C2981	1800C298	1800C298D	14 OUTLANDER SPORTSWR) 4B11 C1 The customer measure of lighting of ML to improve the customer measure for rabs noise reduction
03	18029931	ENGINE	1800C297	1800C2971	1800C297	1800C297D	13 14 LANCERLANCER SPORTBACK 4B11 C1 member(P0060) and torque member(P0014) countermeasure of lighting of ML to improve the customer measure for rabs noise reduction
04	18029845	ENGINE	1800C038	1800C0381	1800C038	1800C038D	13 14 LANCERLANCER SPORTBACK 4B11 C1 The customer measure for rough riding in Park
05	18029844	ENGINE	1800B731	1800B7312	1800B731	1800B731D 1800B731B	13 12.5 LANCERLANCER SPORTBACK 4B C411 The customer measure for rough riding in Park
06	18029843	ENGINE	1800B065	1800B0652	1800B065	1800B065D 1800B065B 1800B065A	11 LANCERLANCER SPORTBACK 4B11 C1 The customer measure for rough riding in Park

CD Ver.:N16031

N16031

5. **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:

- 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**

(1) 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.

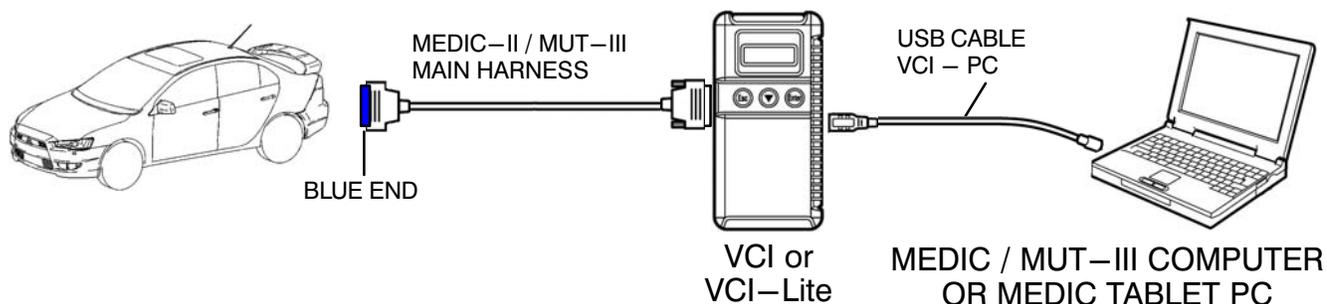
REPROGRAMMING PROCEDURE

CAUTION

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:

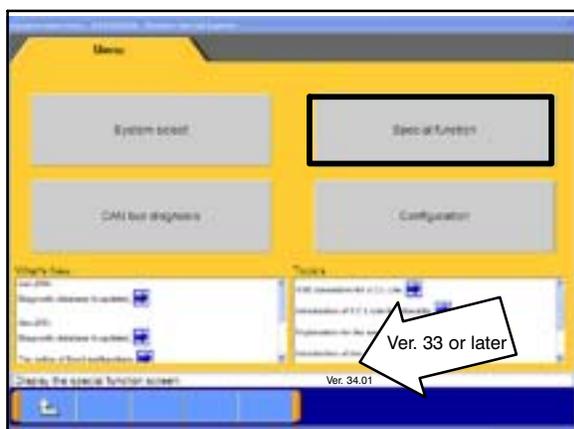


- Turn the computer on. If you're running on battery power and the charge indicator in the lower right hand corner of the screen does not show a full charge, it is recommended that either the PC battery be charged prior to beginning, or you should complete this procedure with the A/C power adaptor connected 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.

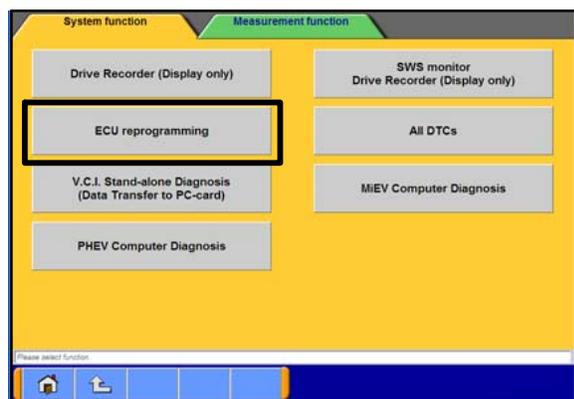
ECU Reprogramming



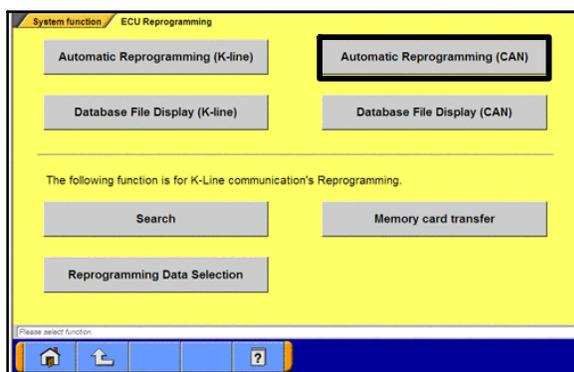
DO NOT DISTURB THE HARNESS CABLES OR CONNECTIONS DURING THE REPROGRAMMING PROCESS AS IT COULD CAUSE THE CONTROL UNIT TO LOSE DATA OR PREVENT FUTURE REPROGRAMMING. IF THE USB CABLE IS DISCONNECTED DURING THIS PROCEDURE, A WARNING MESSAGE WILL DISPLAY.



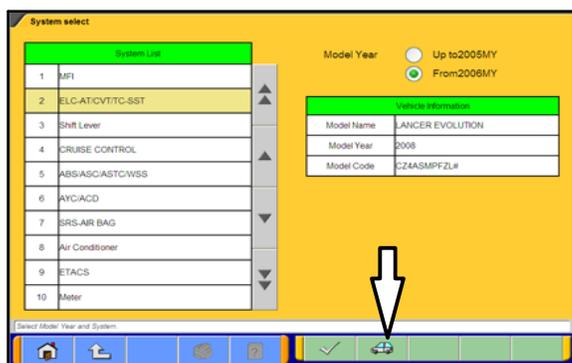
1. Conduct the following steps to reprogram the TCM.
 - a. Turn the ignition switch to the ON position. If the vehicle is equipped with the F.A.S.T. System, the transmitter must remain in the vehicle for the entire procedure.
 - b. If using MEDIC, from the main page, click the MUT-III STV icon at the top center of the screen to open MUT-III.
 - c. From the MUT-III Main Menu, select **Special Function**.



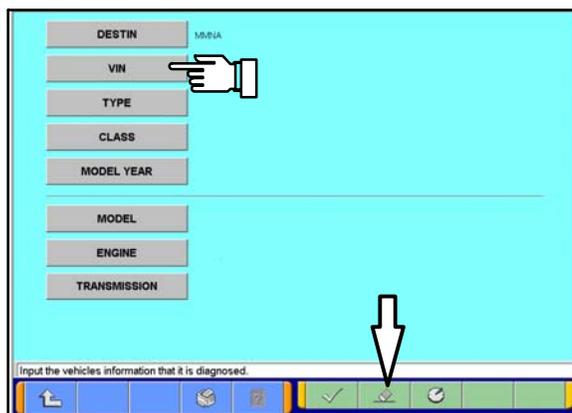
- d. Select **ECU Reprogramming**.



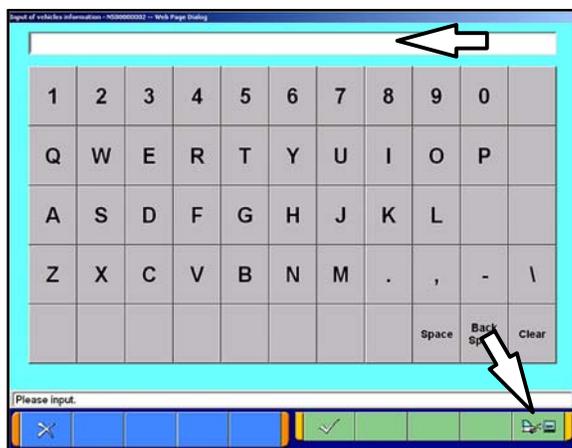
- e. Select **Automatic Reprogramming (CAN)**.



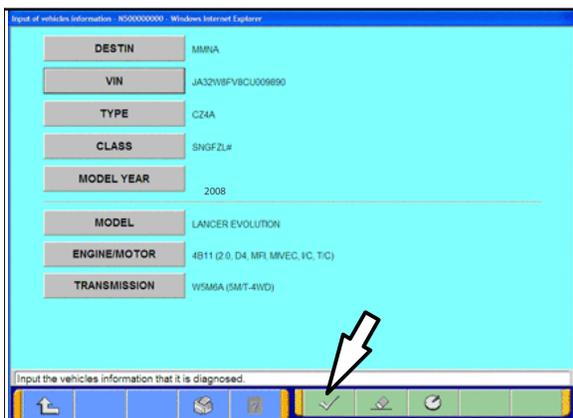
f. Click the car icon at the bottom of the page.



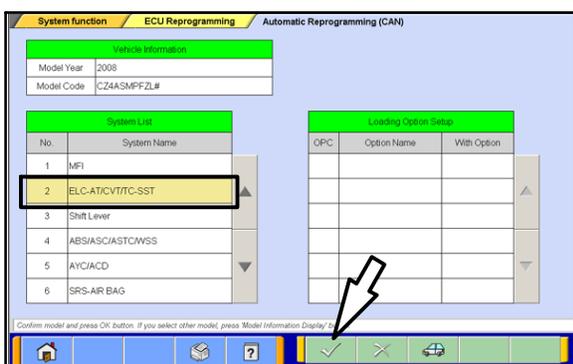
g. If the VIN or vehicle description displayed does not match the vehicle you are working on, click the eraser icon at the bottom of the page to erase vehicle data.
Then click the **VIN** button.



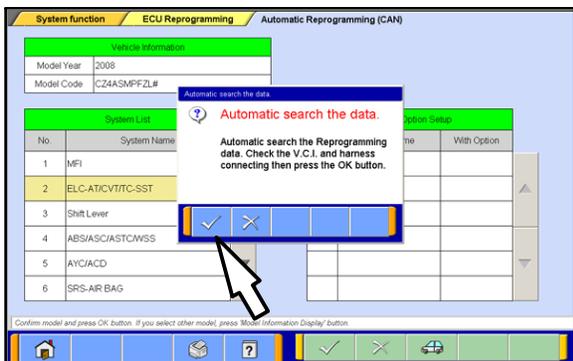
h. Click the icon in the lower RH corner of the screen to have MUT-III automatically read the VIN.
If a message appears saying the VIN cannot be input automatically, manually enter the 17 digit VIN into the VIN field at the top of the page.
Make sure the VIN is correct and click the check mark.



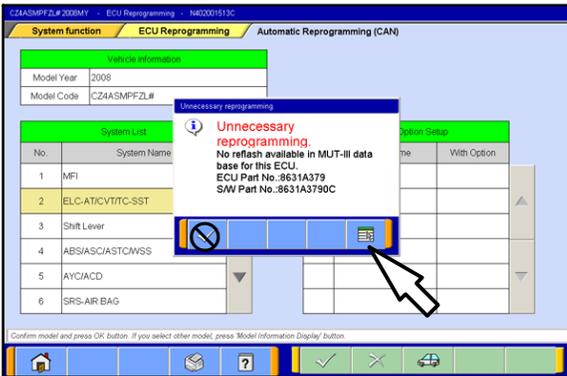
i. Confirm all data matches the vehicle and click the check mark at the bottom of the page.



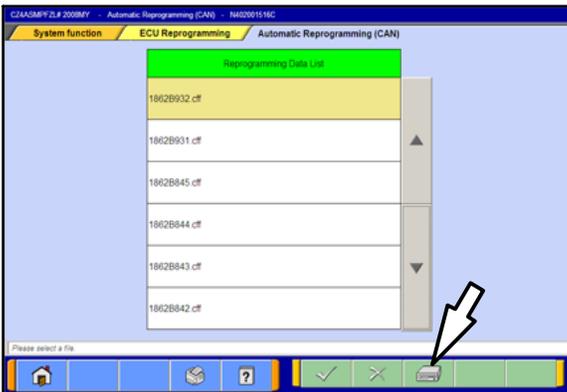
2. Select **ELC-AT/ CVT/ SST** and click the **check mark** to continue.



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

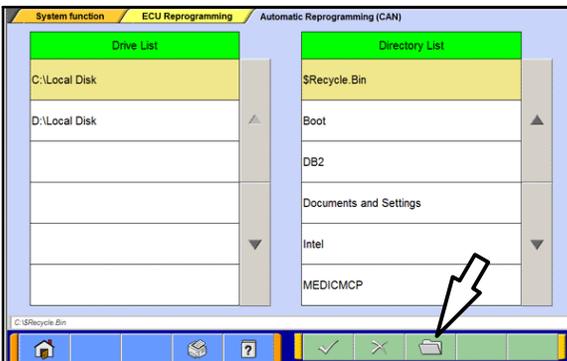


4. A dialog box advising that reprogramming is not necessary will appear. Click the **Data Screen icon** (not the check mark).

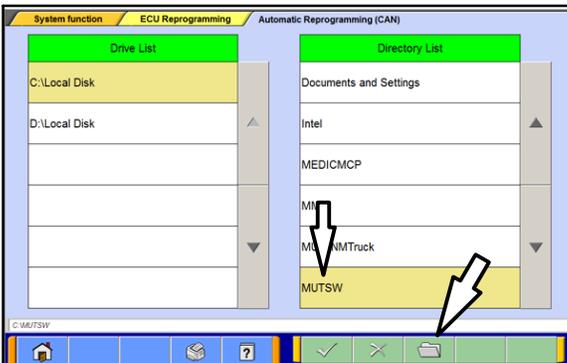


5. Once the **Automatic Reprogramming (CAN)** screen appears, all data contained in the data storage system is displayed.

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

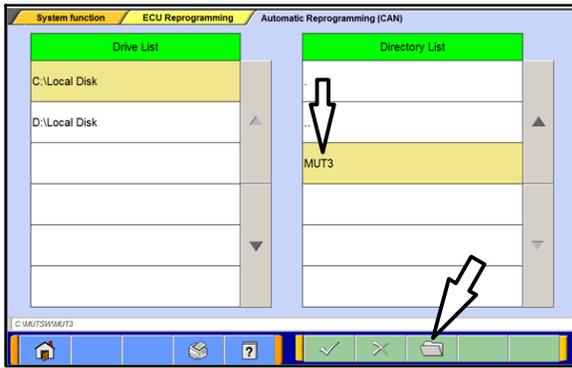


6. Click on the **file folder icon** at the bottom of the screen. ◀

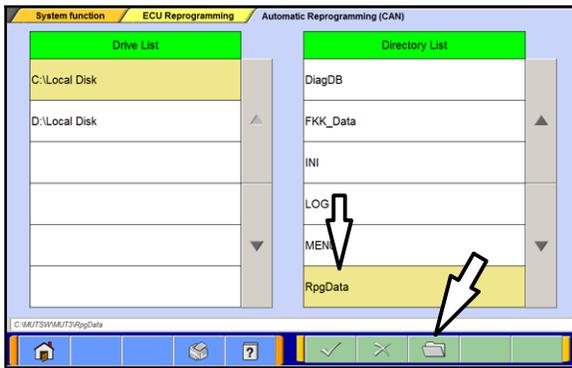


7. Scroll down the **Directory List** until **MUTSW** is displayed. ◀

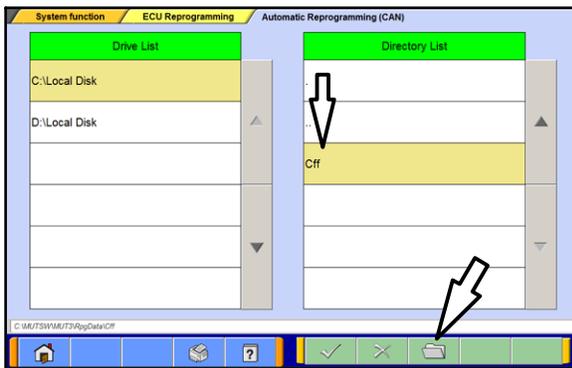
8. Select **MUTSW** and click the **file folder icon** at the bottom of the screen.



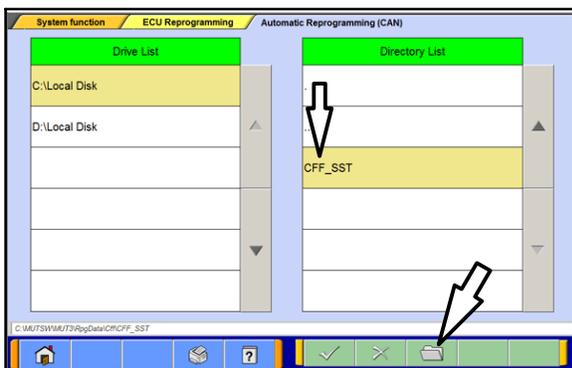
- 9. Scroll down the **Directory List** until **MUT3** is displayed.
- 10. Select **MUT3** and click the **file folder icon**.



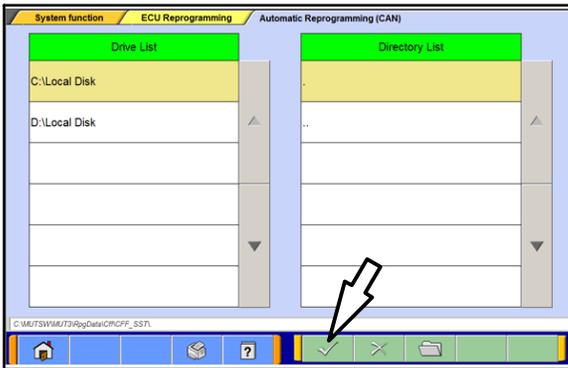
- 11. Scroll down the **Directory List** until **RpgData** is displayed.
- 12. Select **RpgData** and click the **file folder icon**.



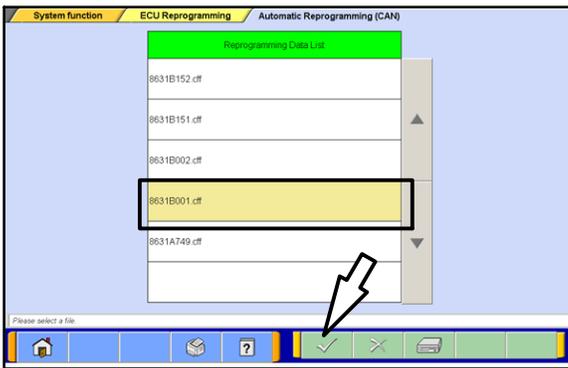
- 13. Select **CFF** and click the **file folder icon**.



- 14. Select **CFF_SST** and click the **file folder icon**.

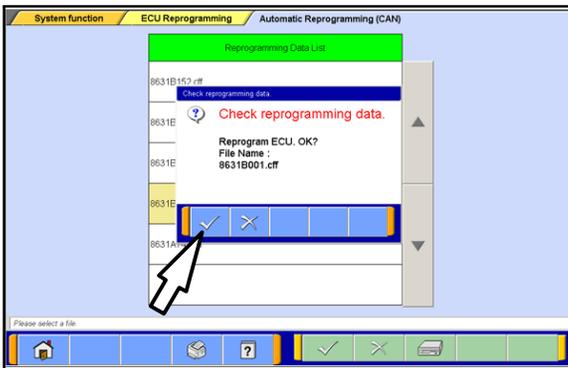


15. Once the **Directory List** is blank, click the **check mark** to continue.

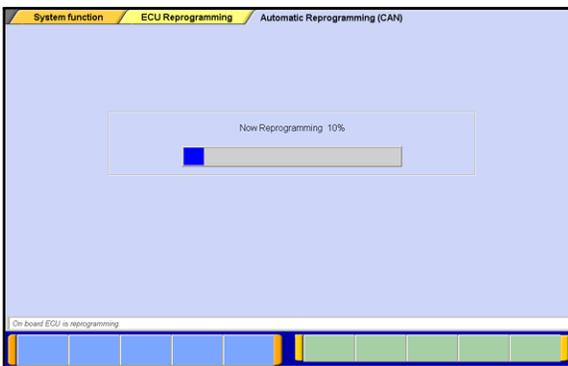


16. Select the correct Reprogramming Data file by model:

- 2009–10 Lancer Evolution – 8631B001.cff
- 2009–10 Lancer Ralliart Edition – 8631B002.cff



17. Click the **check mark** in the **Check Reprogramming Data** dialog box to continue.

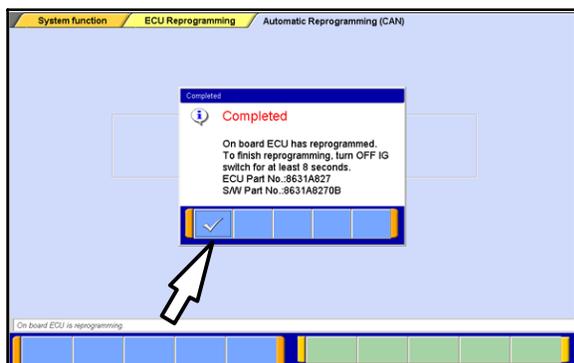


18. Data will load from MUT-III to the TCM.

NOTE: This process takes approximately seven minutes to complete.

CAUTION

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.



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.

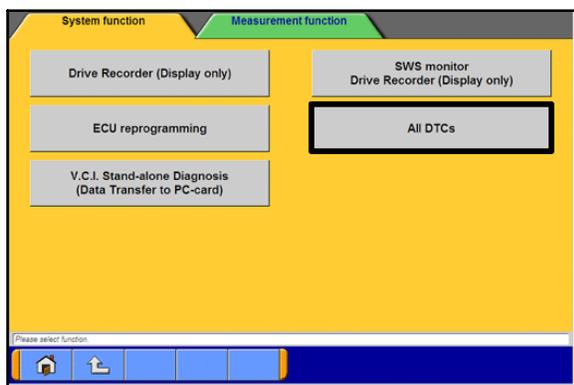
Click the **check mark** to continue.

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.

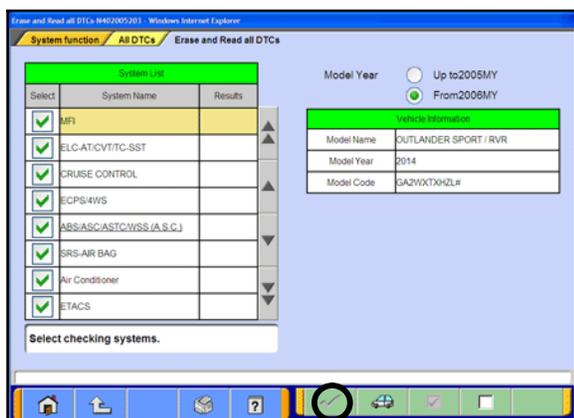
22. Using MUT-III, check and erase ALL DTCs from all systems as follows.

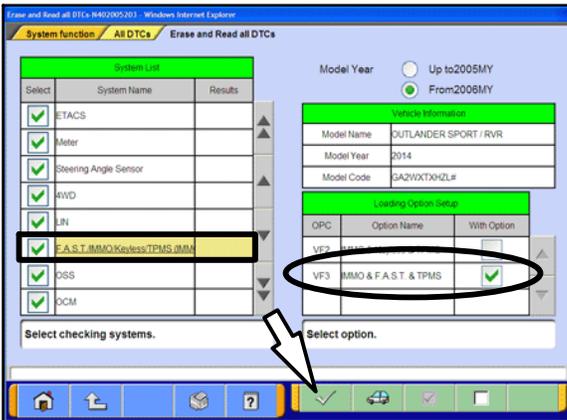
- a. Select “Special Function.”
- b. Select “All DTCs,” then select “ERASE AND READ ALL DTCs.”



c. The “System List” on the left side of the screen will have all selections checked. Do not change these selections. DTCs may be set if the vehicle is equipped with options that are unchecked.

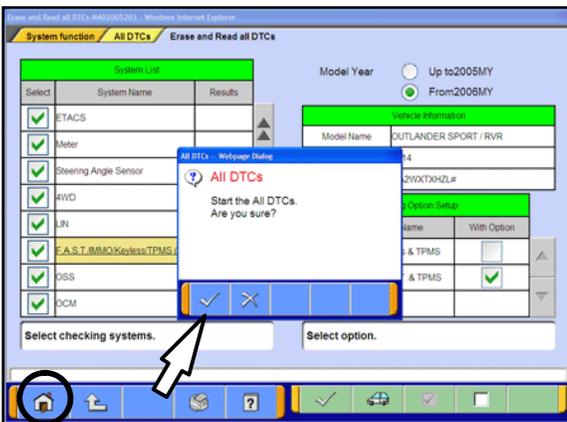
d. If the check mark at the bottom of the screen is highlighted, click it and move ahead to step 6. If not, continue with sub-step e.





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.

- If DTCs return after reprogramming, click the check mark to clear the window. Diagnose and repair per the Service Manual.
- 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.