SB-10054713-8943

Technical Service Bulletin

SUBJECT:	No:	**TSB−13−13−009**
ECM REPROGRAMMING FOR MIL ILLUMINATES, DTC P1235 OR P0068 STORED IN ECM	DATE:	**December, 2013**
	MODEL:	**See below**

CIRCULATE TO:	[ ] GENERAL MANAGER	[**X**] PARTS MANAGER	[**X**] TECHNICIAN
[**X**] SERVICE ADVISOR	[**X**] SERVICE MANAGER	[**X**] WARRANTY PROCESSOR	[ ] SALES MANAGER

> *This bulletin supercedes TSB−11−13−006, issued November 2011 to add affected models and provide revised software for existing models. Changes are italicized and identified by ◄.*

PURPOSE

In cold weather, false MIL illumination may occur on some affected vehicles during turbocharger operation below 3,000 rpm engine speed, due to improper intake air volume judgement parameter. DTCs P1235 (2008−2010 vehicles) or P0068 (2011−2014 vehicles) −Boost/Air Flow Sensor Plausibility may be stored in the ECM

This TSB provides field fix procedures to reprogram the ECM with new software to address false MIL illumination with boost/air flow plausibility monitor DTCs P1235 (2008−2010 models) or P0068 (2011−2014 models) stored in memory.

AFFECTED VEHICLES

2008−2014 Lancer Evolution
   - Vehicles equipped with 5 M/T built before September 23, 2013
   - Vehicles equipped with TC−SST built before September 25, 2013

REQUIRED OPERATIONS

OVERVIEW

1. Confirm your MUT−III is updated with the latest reprogramming database.

2. Reprogram the ECM with the new software. See the ECM Reprogramming Chart for new software information.

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

EQUIPMENT

The following equipment is needed to reprogram the ECM.

- VCI (Vehicle Communication Interface) − MB991824 **or** VCI LITE − MB992744

- Laptop computer with A/C power adaptor − 520924, or MIT547708.

- MUT−III main harness 'A' (blue connector at the DLC end) − MB991910.

- USB 2.0 cable − MB991827.

- "Engine Compartment/Control Module" label − p/n MSSF024G00.

- MEDIC−3 update at M233 or higher.

- For Standalone MUT−III units, MUT−III Reprogramming Database N131112 or higher.

Continued

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(4075)

ECM REPROGRAMMING CHART

MODEL	CURRENT PART NO.	DATA NO.	DISPLAY ON MUT−III AFTER REPROGRAMMING	
			New Part No.	New S/W Part #
08 Lancer Evolution 4B11−TC MT	1860A979	1862B815	1860A979	1860A97909
08 Lancer Evolution 4B11−TC TC−SST	1860A980	1862B816	1860A980	1860A98010
09 Lancer Evolution 4B11−TC MT	1860B180	1862B817	1860B180	1860B18005
09 Lancer Evolution 4B11−TC TC−SST	1860B181	1862B818	1860B181	1860B18105
10 Lancer Evolution 4B11−TC MT	1860B306	1860B820	1860B306	1860B30603
10 Lancer Evolution 4B11−TC TC−SST	1860B307	1860B821	1860B307	1860B30703
11 Lancer Evolution 4B11−TC MT	1860B474	1862B823	1860B474	1860B47404
11 Lancer Evolution 4B11−TC TC−SST	1860B475	1862B824	1860B475	1860B47504
12 Lancer Evolution 4B11−TC MT	1860B788	1862B826	1860B788	1860B78801
12 Lancer Evolution 4B11−TC TC−SST	1860B789	1862B827	1860B789	1860B78901
13−14 Lancer Evolution 4B11−TC MT	1860C045	1862B829	1860C045	1860C04501
13−14 Lancer Evolution 4B11−TC TC−SST	1860C046	1862B830	1860C046	1860C04601

REPAIR PROCEDURE

> **NOTE:** Reprogramming the ECM with the latest database (i.e.N13112) includes all past and current reprogramming for TSBs of affected vehicles. You do not need to reprogram the ECM for each TSB.

1. Check the underside of the hood to verify there is no "Authorized Modification" label (see page 12 for example) previously installed to indicate this reprogramming has already been completed. If a label is present and the "ROM ID #" on the label matches the "New S/W Part No." in the table above, the ECM is at the latest level and reprogramming is not necessary. Conduct normal diagnosis for the subject condition.

Ver. and Update numbers
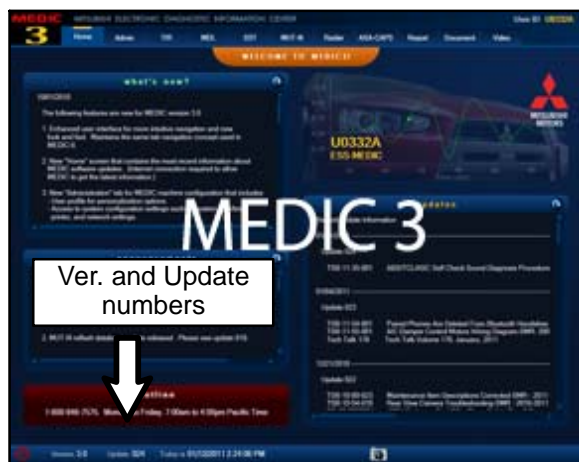
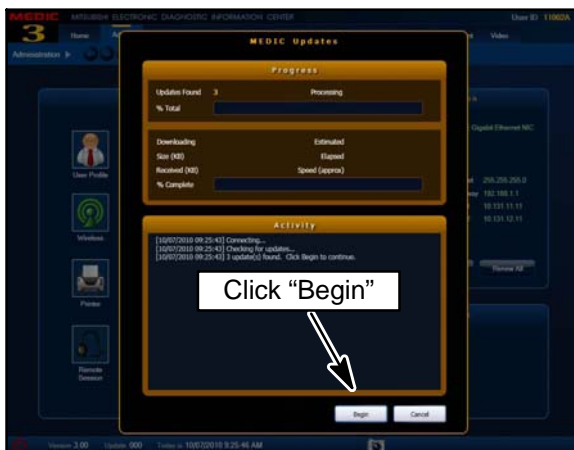**For MEDIC 3 users only: (MUT−III users go to step 5)**

2. Verify the MEDIC 3 is at version 3.1 and at update 233 or higher.

   If your **MEDIC 3 update is at least 233**, continue with the Reprogramming Procedure on page 4.
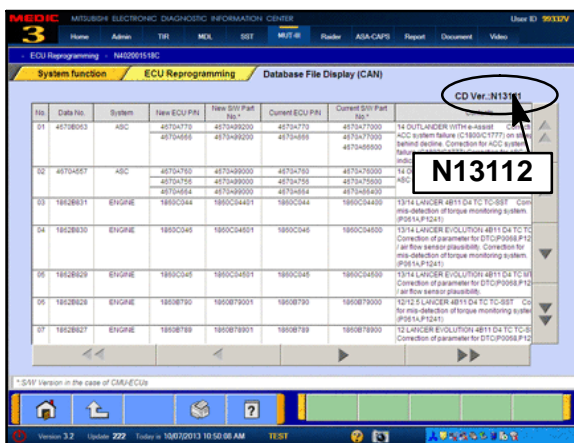
   If your **MEDIC 3 update is below 233**, update your MEDIC 3 as follows.

Admin
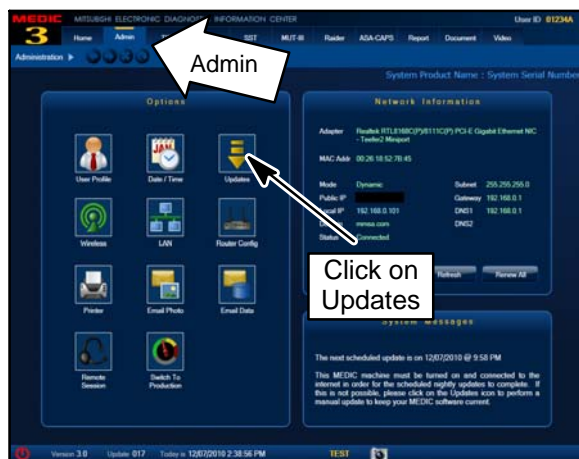
Click on Updates

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

4. IF the MEDIC update screen advises updates are available, click the "Begin" button. After all updates are complete, **GO TO THE REPROGRAMMING PROCEDURE ON PAGE 5.**

Click "Begin"

N13112

5. **STANDALONE MUT−III SCAN TOOL VIEWER (STV) ONLY: (MEDIC 3 USERS GO TO THE REPROGRAMMING PROCEDURE ON PAGE 5).** 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 **N13112 or higher**

   (1) If the database number displayed on your MUT−III is **N13112** or greater, continue to the Reprogramming Procedure on page 5.

   (2) If the reprogramming database number displayed on your MUT−III is lower than **N13112**, locate the reprogramming CD containing database N13112 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 ECM. 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:

MEDIC−II / MUT−III MAIN HARNESS

BLUE END

VCI

USB CABLE VCI − LAPTOP

MEDIC 3 / MUT−III LAPTOP
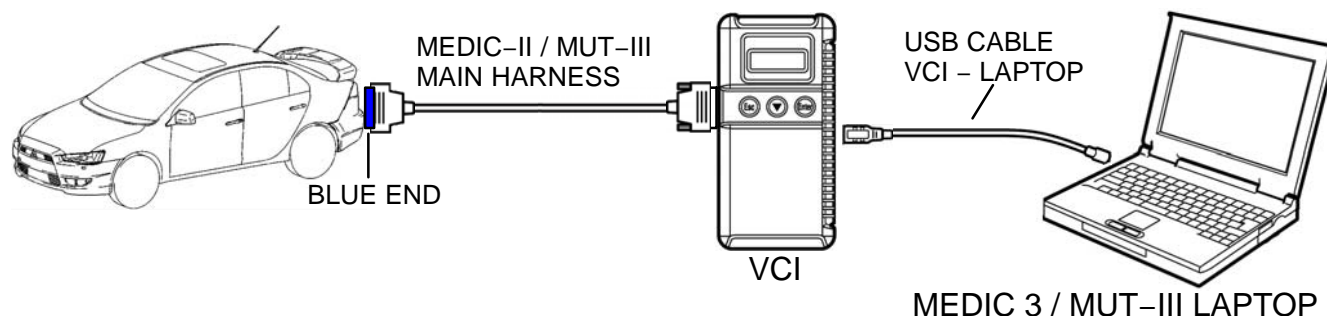
- Turn the laptop computer on. If you're running on battery power and the charge indicator in the lower right hand corner of the screen does not show a full charge, it is recommended that either the laptop battery be charged prior to beginning, or that reprogramming be completed with the A/C power adaptor connected to the laptop.

- Connect the USB cable to the VCI (or VCI−LITE).

- 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.

| ⚠ CAUTION	DO NOT DISTURB THE HARNESS CABLES OR CONNECTIONS. INTERRUPTION DURING THE REPROGRAMMING PROCESS COULD CAUSE 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
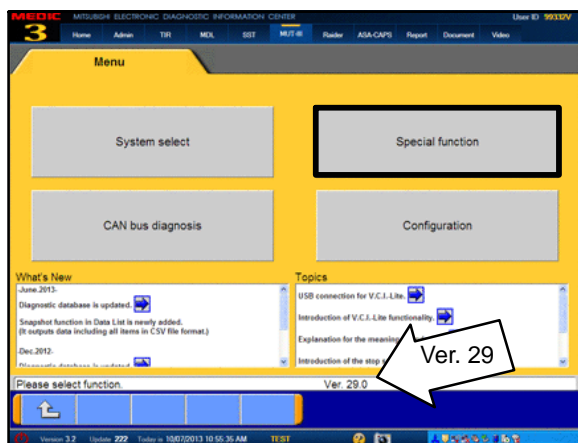
1. Conduct the following steps to reprogram the ECM.

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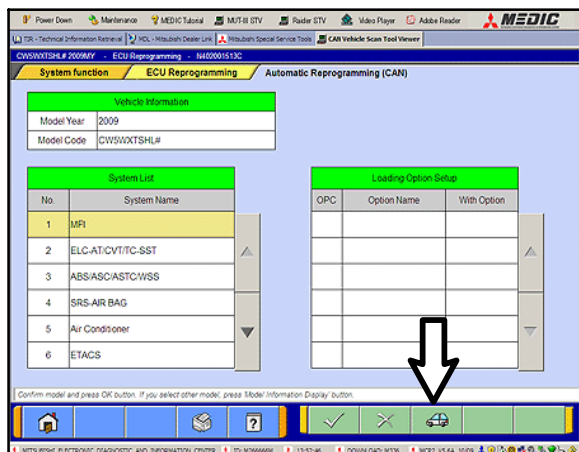
   For vehicles equipped with OSS, press the START/STOP button twice without applying the brake. The LED in the button should be green.

   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."
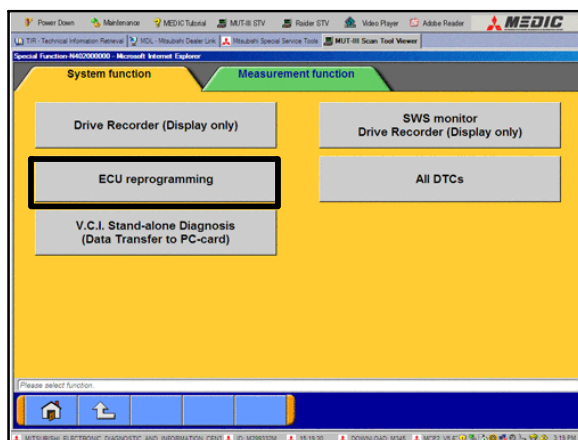
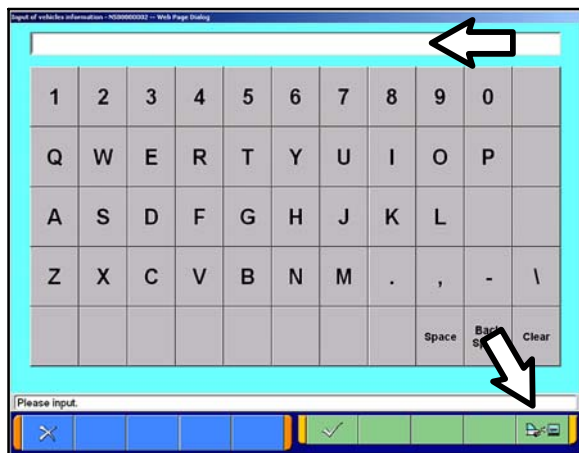

   e. Select "Automatic Reprogramming (CAN)."
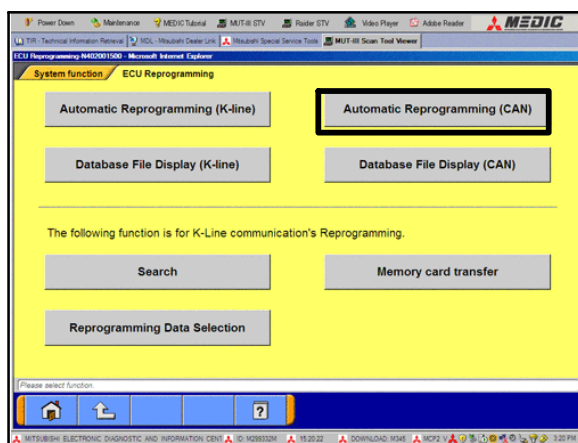
f. Click on the car icon at the bottom of the page.
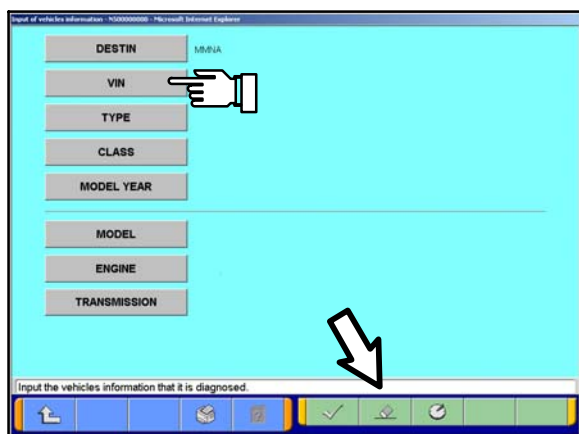
g. If the VIN or vehicle description displayed does not match the vehicle you are working on, click on the eraser icon at the bottom of the page to erase vehicle data.

Then click on 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 type the 17 digit VIN into the VIN field at the top of the page.

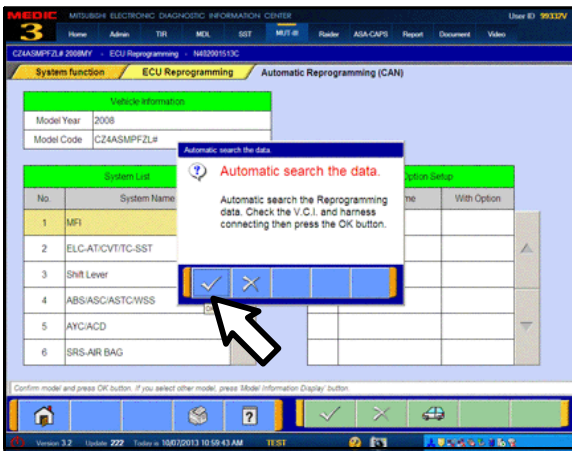Make sure the VIN is correct and click on the check mark.

i. Confirm all data matches the vehicle and click the check mark at the bottom of the page.
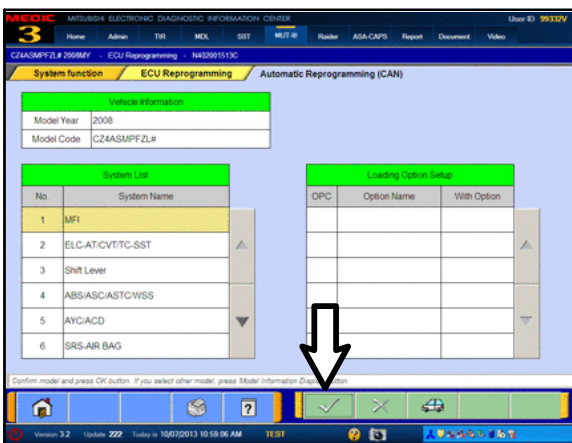
j. MFI should be highlighted as the default. If not, click on it to highlight it.

   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 **does not** appear, continue with step l.

If the message seen at left is displayed, the ECM software as 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.
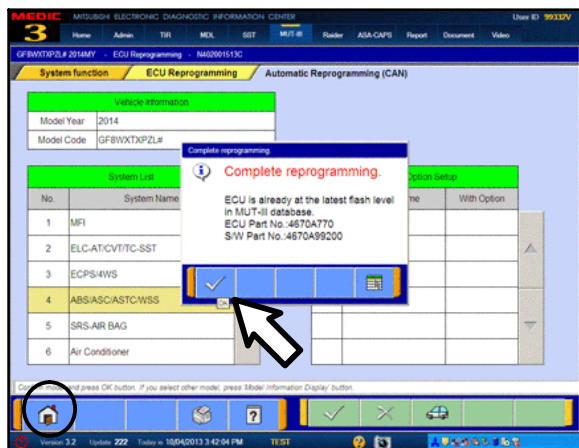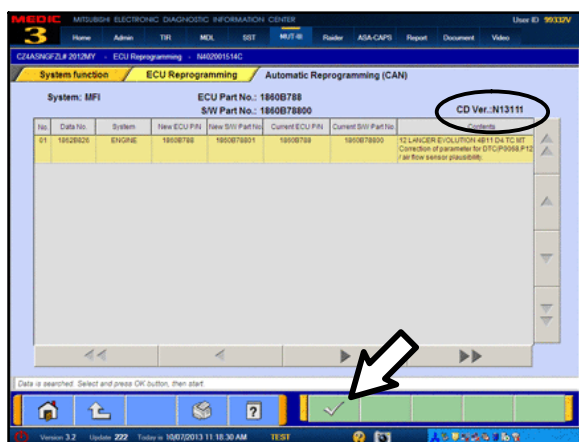

l. The Automatic Reprogramming (CAN) database screen will display.

   Confirm the database number at the top right of the table is **N13112** or higher.

   If more than one row is displayed in the table, refer to the ECM Reprogramming Chart on Page 2 to select the correct row.
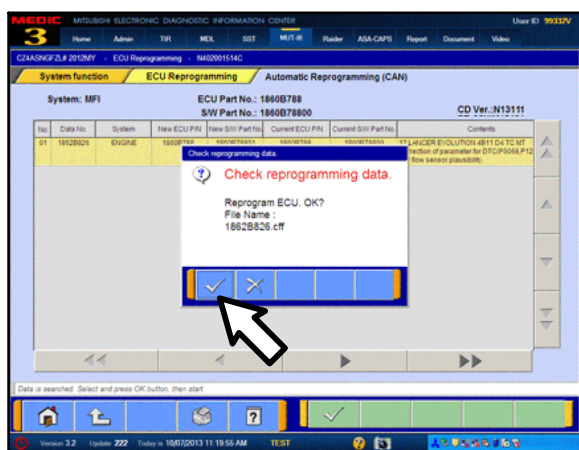
   Click on the row to highlight it.

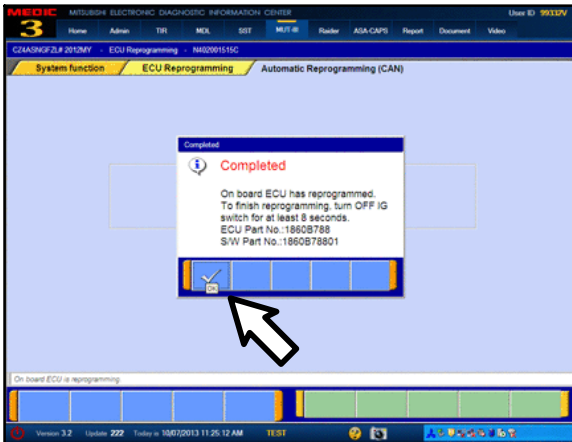   Click the check mark to continue.

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. This message will display when ECM reprogramming is successfully completed. Confirm the "New S/W P/N" displayed matches the table at the beginning of this TSB. Then click the check mark to clear the message.

2. Click the home icon at the lower left corner of the page to return to the MUT−III main page.
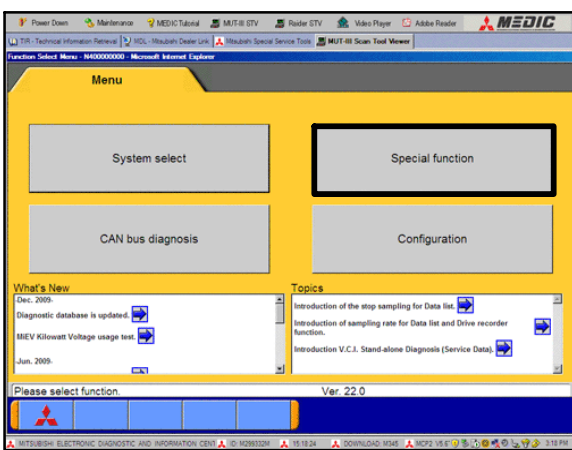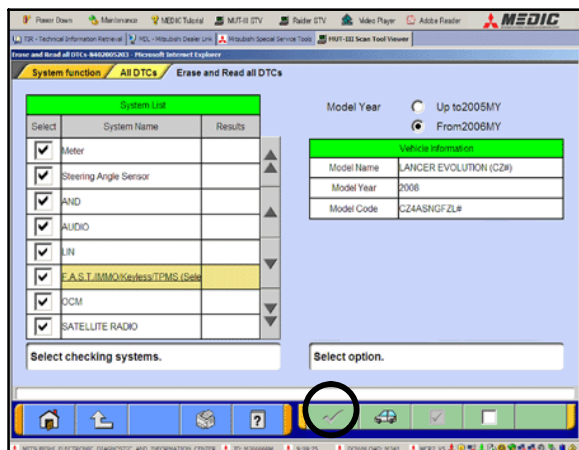

3. Using MUT−III, check and erase ALL DTCs from all systems as follows.

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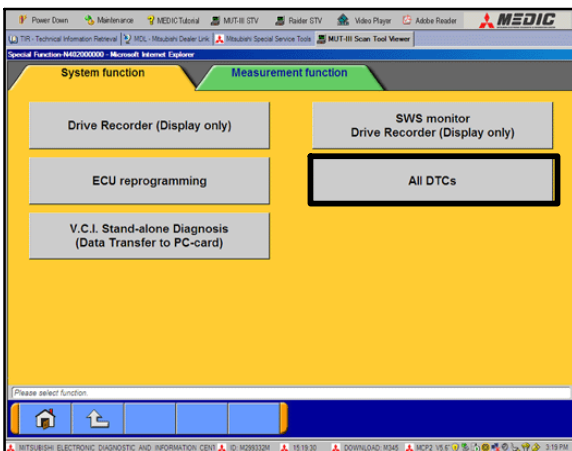
   b. Select "All DTCs," then select "ERASE AND READ ALL DTCS."

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 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 Lancer based models. For those 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.
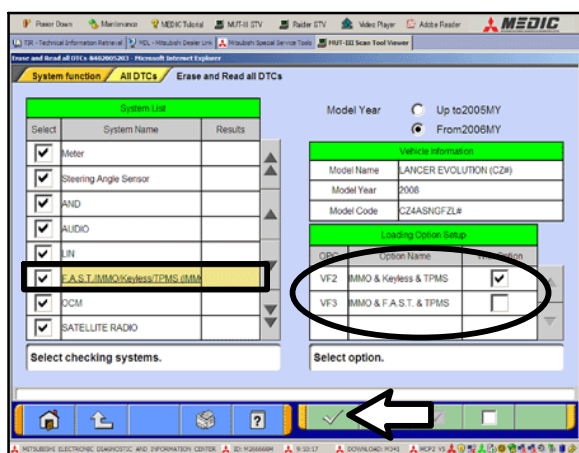
e. In the left column, scroll to and click FAST/IMMOB/KEYLESS/TPMS. In the right column, check the correct option code (VF#) from the Loading Options Setup list. This will activate the check mark at the bottom of the page.

● Vehicles with regular keyless entry (buttons on a multi−function key), select VF2.

● Vehicles with F.A.S.T. Key, select VF3.

f. In the left column, scroll to and select METER. A window will display. Check the correct display type for the vehicle.

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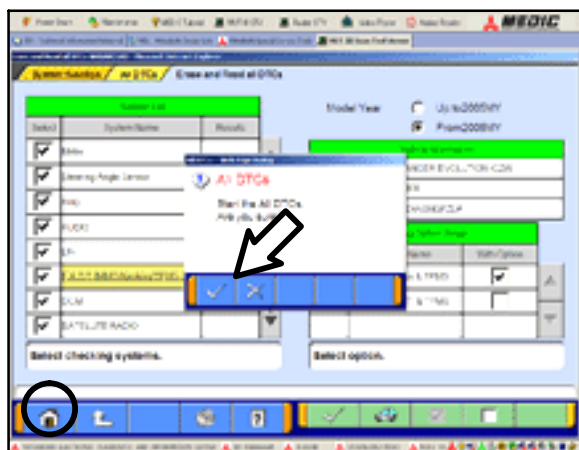
4. A window will pop up asking you to confirm DTC erasing. Click the check mark for DTC erasing and reading to begin.

5. 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.

6. Turn off the ignition switch and disconnect the MUT−III. Turn off and disconnect the battery charger.

7. Using a ball−point pen, enter the appropriate Engine Control Module (ECM) part number, Software Part Number (ROM ID#), this Technical Service Bulletin number (TSB−13−13−008), your dealer code, and the current date on the Engine Compartment / Control Module Label (p/n MSSF024G00). The Vendor Code is not applicable. The label is available from your facing PDC.

| MITSUBISHI MOTOR SALES OF AMERICA, Inc. | AUTHORIZED MODIFICATIONS | These Modifications Have Been Approved as Appropriate by EPA and CARB | AUTHORIZED MODIFICATIONS |

THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:

PART NUMBER
1860C045

VENDOR CODE
N/A

ROM ID #
ENG 1860C04501
A/T

TSB
ENG *TSB–13–13–008*
A/T

DEALER CODE
99332

DATE
12/23/13

Engine Compartment Label

SAMPLE

MITSUBISHI MOTOR SALES OF AMERICA, Inc.
P/N
Vndr Code
TSB
Dir Code
Date
Control Module Label

The Control Module Label is NOT used for this reflash. It should be discarded.

8. Carefully remove all dirt and oil from a vacant area near the VECI label on the underside of the hood and affix the Engine Compartment Label (LH side, above) to that area.

9. Test drive the vehicle to confirm proper operation and the MIL does not illuminate. Diagnose and correct any DTCs that return.

PARTS INFORMATION

Use only the Genuine Mitsubishi Parts listed below.

Description	Model	Part Number
Label, Engine Compartment	All	MSSF024G00

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.

ECM Reprogramming for DTC P1235 or P0068 – Boost/Air Flow Sensor Plausibility

Nature Code: 05P

Cause Code: 490

Labor Operation No.: 138501 13

Time Allowance: 0.3 hr.

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

Special Warranty Information: Normal warranty procedures apply.