



Technical Service Bulletin

SUBJECT: COOL AIR EXPELLED WHEN A/C SWITCH IS TURNED OFF WHILE IN ECO DRIVE MODE - REVISED		NO: TSB-23-55-002REV
		DATE: December 2024
		MODEL: 2022-23 Outlander
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR
		<input checked="" type="checkbox"/> TECHNICIAN
		<input type="checkbox"/> SALES MANAGER

This bulletin supersedes TSB-23-55-002 dated March 2023 to update the ECU Reprogramming Chart and Reprogramming Procedures. Revisions are italicized and indicated by ◀

PURPOSE

This bulletin provides instructions to reprogram the HVAC ECU software for the A/C Auto Amplifier.

BACKGROUND

When in ECO drive mode, the A/C Auto Amplifier program allows the compressor to remain in the ON position after the A/C is turned off, expelling cool air. The A/C Auto Amplifier program has now been updated to turn the compressor OFF when the A/C is turned off and the vehicle is in ECO drive mode. Please reprogram the HVAC ECU software on a customer concern basis.

AFFECTED VEHICLES

Certain 2022-2023 Outlander (VIN Cut-off JA4J4UA89PZ011552)

PROCEDURE

Using MUT-3SE with software version SEW23121-00 or later, first confirm the software EDITION number found in the ECU Information for A/C Auto Amplifier (list name on MUT-3SE: HVAC) and if applicable, proceed with the update for the A/C Auto Amplifier (list name on MUT-3SE: HVAC). Refer to the ECU Reprogramming Chart on page 2 of this bulletin.

NOTE: *It is not necessary to perform this software update on vehicles that previously received the software update.*

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**ATTENTION:**

- Turn off all electrical devices to minimize the vehicle's electrical load. Also use an external power source to ensure that the vehicle auxiliary battery maintains the specified voltage during reprogramming. Low voltage of the auxiliary battery may cause incomplete reprogramming, and damage the ECU.
- Write down all the customer's electrical device settings such as A/C and radio before reprogramming and restore them after reprogramming.
- Connect the MUT-3 to an AC power source to prevent internal battery discharge.
- Before using, make sure the USB cable and MUT-3 main harness are not damaged.
- Do not perform maintenance work in the engine during reprogramming. If the connection between the engine ECU and ETACS is lost, the cooling fan operates as fail-safe.
- Check the "All DTC" after reprogramming and erase them (if any).

EQUIPMENT

- The following equipment is needed to reprogram the ECU:
- 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
- MEDIC 3.5/4 update at **786** or higher
- For Standalone MUT III units, MUT-III SE Reprogramming Database **N230201NR** or higher

ECU REPROGRAMMING CHART

<i>Model</i>	<i>Data No.</i>	<i>New SW Part No./EDITION NUMBER</i>	<i>Target SW Part No./EDITION NUMBER</i>	<i>Remarks</i>
<i>Outlander</i>	<i>27531W00.7PN</i>	<i>27531W007P /2229410</i>	<i>27760W000P /2048400,2117400 27760W001P /2048400,2117400 27760W006P /2135420,2150420 27760W007P /2135420,2150420 27531W003P /2150420</i>	<i>Dual zone climate</i>
	<i>27531W00.8PN</i>	<i>27531W008P /2229420</i>	<i>27760W002P /2048400,2117400 27760W008P /2135410,2150410 27531W004P /2150410</i>	<i>Triple zone climate</i>

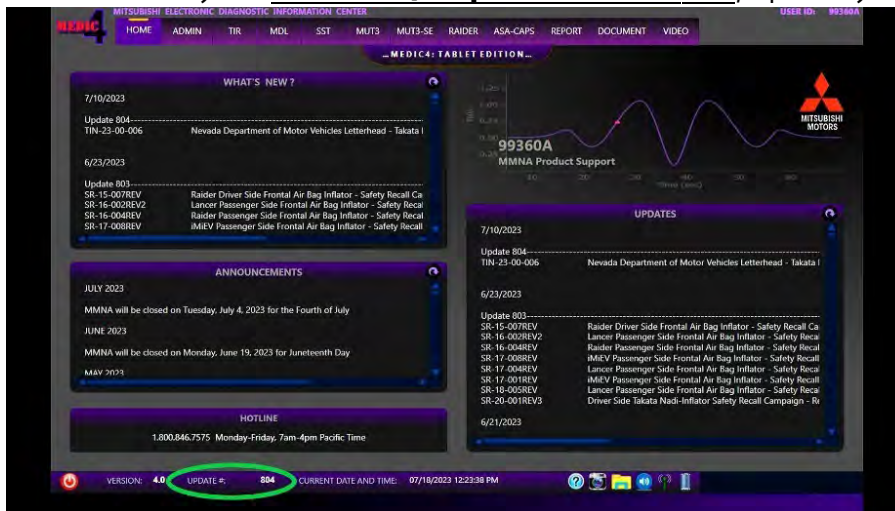
SOFTWARE/MEDIC VERSION VERIFICATION PROCEDURE

1. Verify that the HVAC-ECU has not already been updated to the latest S/W number in the chart above. If the ECU software is at the latest level, reprogramming is not necessary.

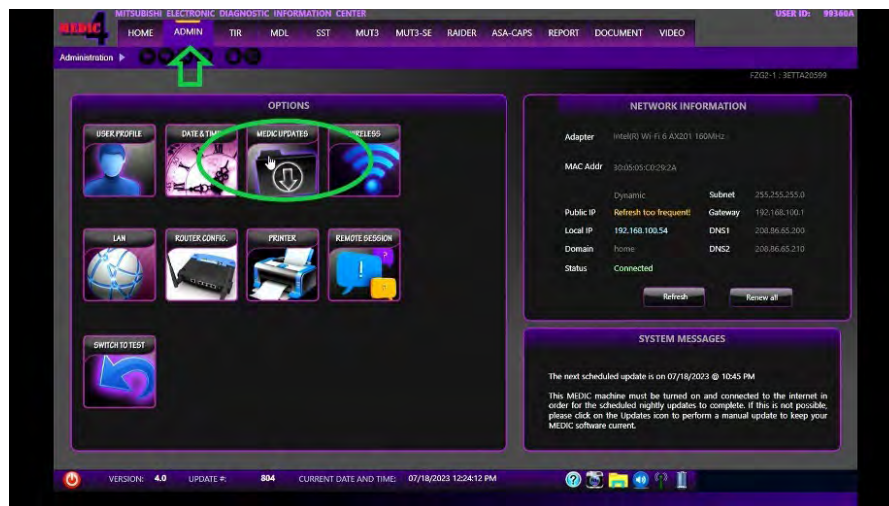
NOTE: Reprogramming the HVAC-ECU with the latest database (e.g., **N230201NR**) includes all past and current reprogramming for TSBs of affected vehicles. It is not necessary to reprogram the ECU for each previous TSB.

For MEDIC 3.5/4 users only: (MUT-III SEV users go to step 5)

2. Verify the MEDIC 3.5/4 is at version 3.5 and at update **786** or higher.
If your **MEDIC 3.5/4 update is at least 786**, continue with the Reprogramming Procedure. If your **MEDIC 3.5/4 update is below 786**, update your MEDIC as follows:



3. Select the MEDIC 3.5/4 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.**

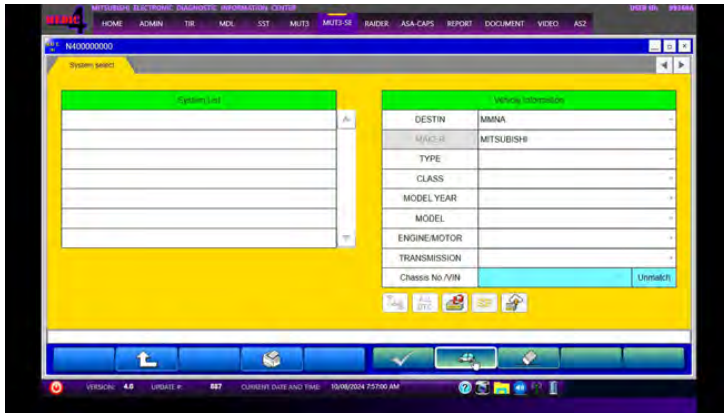


5. STANDALONE MUT-III SE SCAN TOOL VIEWER (STV) ONLY: (MEDIC 3.5 USERS – GO TO THE REPROGRAMMING PROCEDURE). Verify that your MUT-III SE has the most current version of the reprogramming database from the MUT-III SE Main Page.

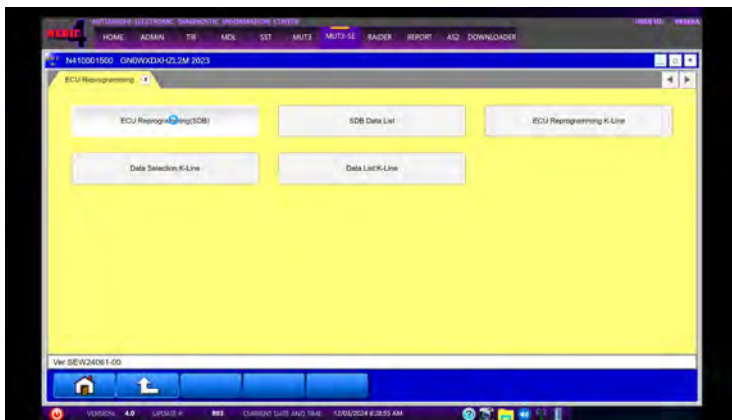
- a. Press the MUT-III SE STV button.



b. Press the "car icon" for Chassis No/VIN read out.

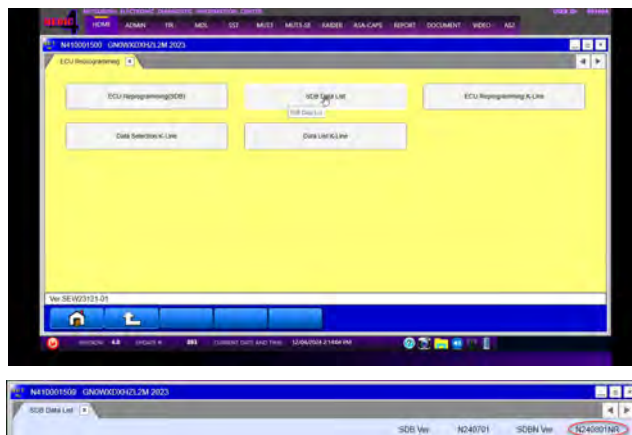


c. Confirm the vehicle information displayed is complete/correct, after selecting the appropriate class and Meter/M&A. The class can be found on the B pillar. Next, press the "ECU reprogramming button".



d. Select "SDB Data List button", verify software information according to the chart in this bulletin and the SBDN Version number at the top right.

- If the database number displayed on your MUT-III SE is **N230201NR** or greater, continue to the next section.
- If the reprogramming database number displayed on your MUT-III SE is lower than **N230201NR**, then the MUT-III SE database needs to be updated.
- Once the database number is confirmed, hit the Home button to go back to the System Select screen.



REPROGRAMMING PROCEDURE

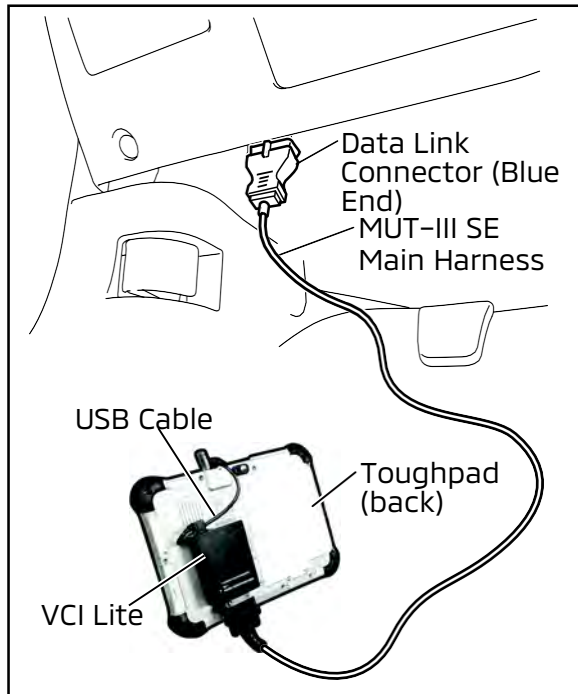


To ensure that the vehicle battery maintains 12V during the procedure, connect a battery charger to the vehicle during the procedure.

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

1. Connect the equipment as follows:

NOTE: VCI Lite and MEDIC 4.0 Toughpad shown for illustration purposes only.



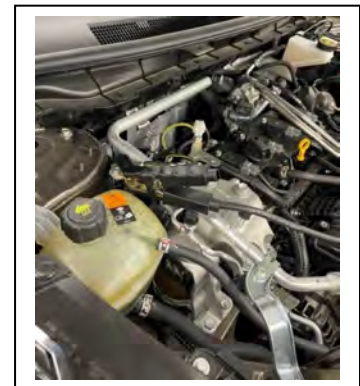
- Turn the MEDIC PC/tablet on. If the battery indicator in the lower right hand corner of the screen does not show a full charge, it is recommended that either the battery be charged prior to beginning or be used with the A/C power adaptor connected.
- Connect the USB cable to the VCI/VCI Lite. When the laptop/tablet displays the MUT-III SE main screen, connect the USB cable to the device.
- Connect the MUT-III SE main harness with the blue DLC connection to the VCI/VCI Lite. Connect the blue connection of the MUT-III SE main harness to the vehicle's data link connector.
- For VCI only (p/n MB991824): Turn the VCI power switch ON. Verify that the indicator lamp in the upper right corner of the screen is green.



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

NOTE: Due to limited space it may be easiest to connect battery charger cable onto ground point.

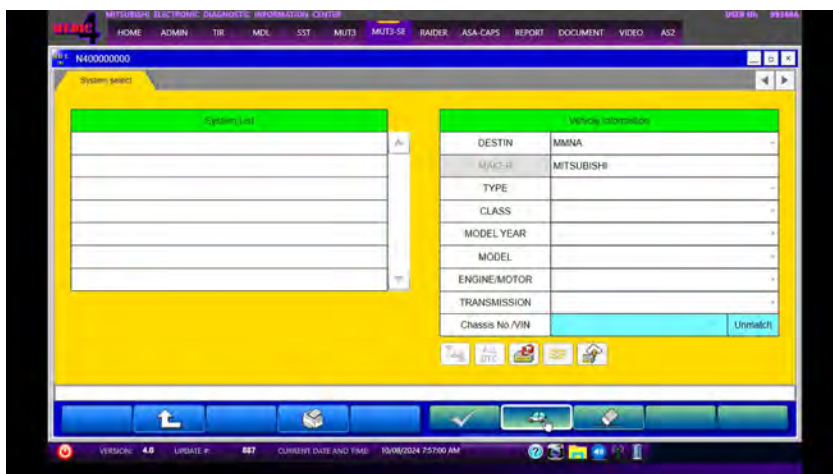
2. Turn the ignition switch to the "ON" position.



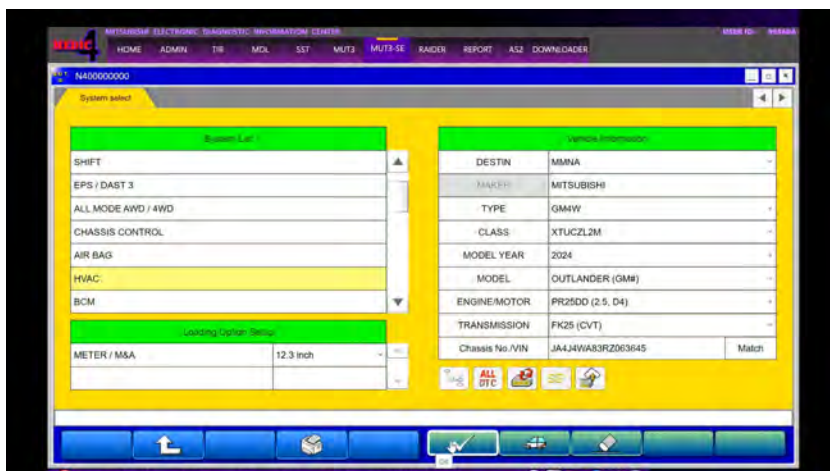
3. Turn the ignition switch to the "ON" position.
4. Turn on flashers to prevent vehicle from shutting/powering down.
5. Press the "MUT-III SE STV" button.



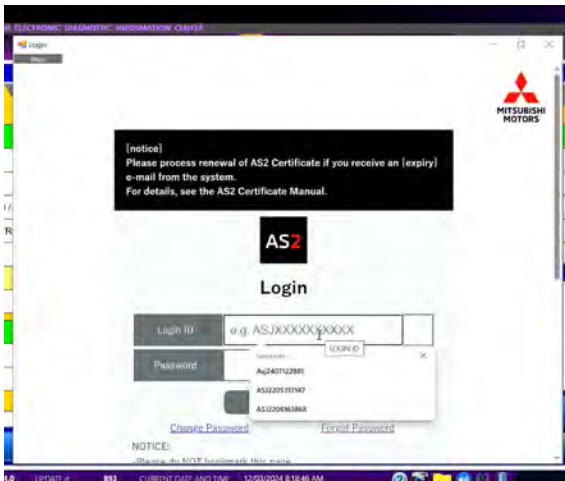
- a. Press the "car icon" for Chassis No/VIN read out.



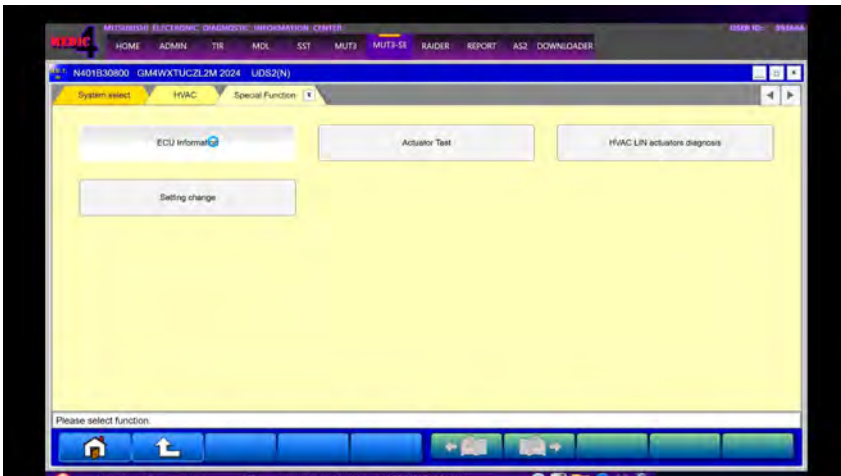
- b. Confirm the vehicle information displayed is complete/correct, after selecting the appropriate class and Meter/M&A. The class can be found on the vehicle's B pillar. Next select HVAC and press the "OK" button.



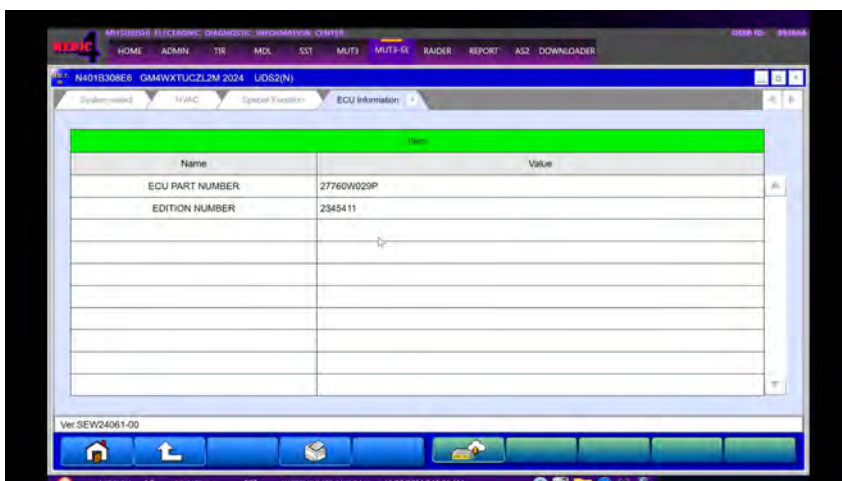
c. Log into AS2.



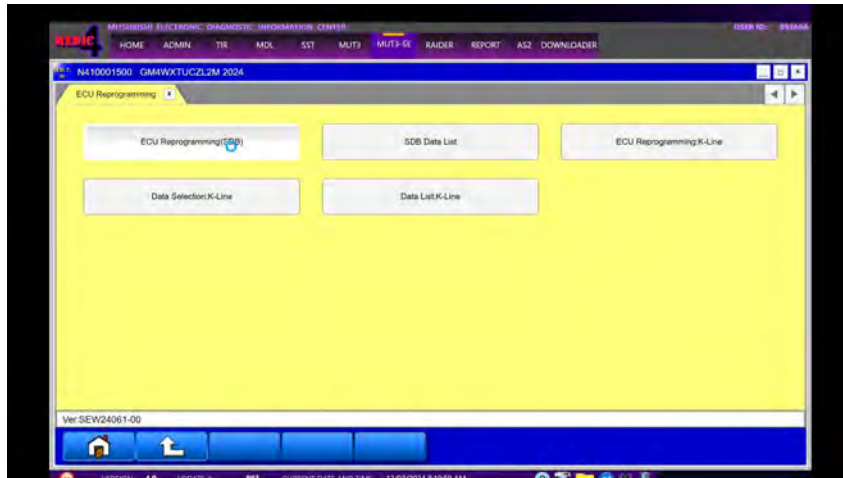
d. Select "ECU Information" from the Special Function tab.



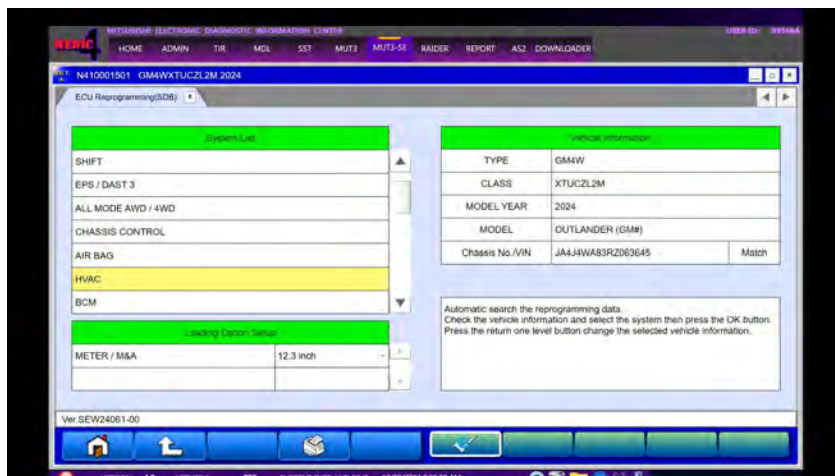
e. Compare the "Edition Number" to the ECU Reprogramming Chart on page 2 of this bulletin.



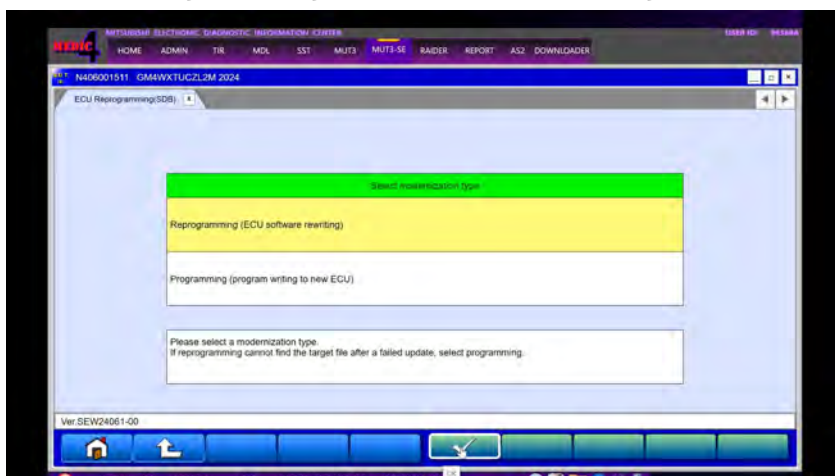
f. Press the "ECU Reprogramming (SDB)" button.



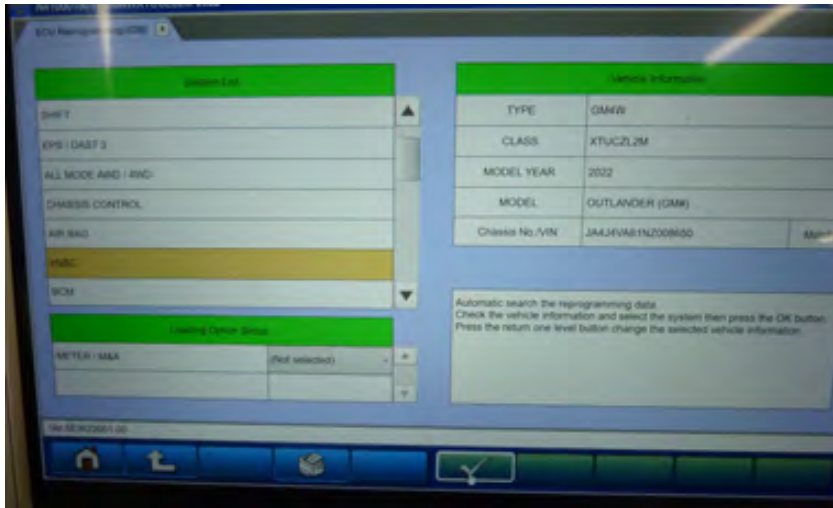
g. Select "HVAC" from the System List and press the "OK" button.



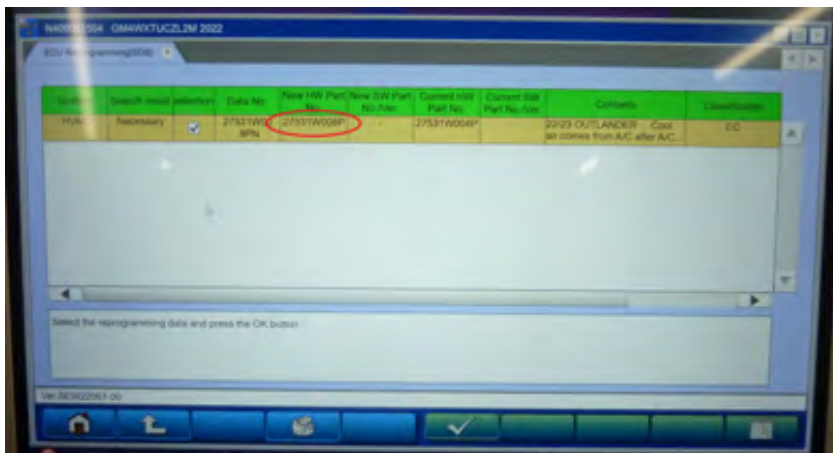
h. Select "Reprogramming (ECU software rewriting)" and press the "OK" button.



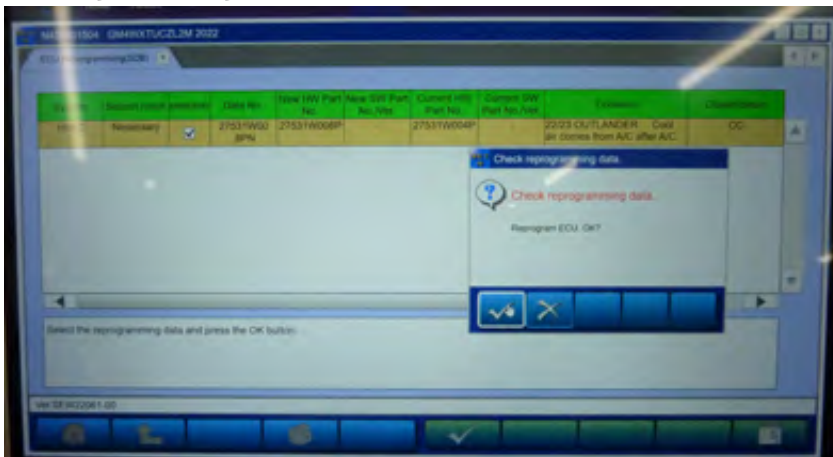
- i. Select "HVAC" from the System List and press the OK button.



- j. The Automatic ECU Reprogramming (SDB) database screen will display. Press the OK button.

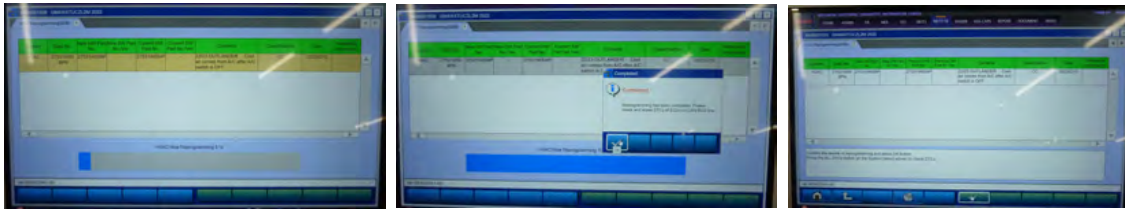


- k. Type AS2 account information (if applicable) and press the OK button to start the reprogramming.



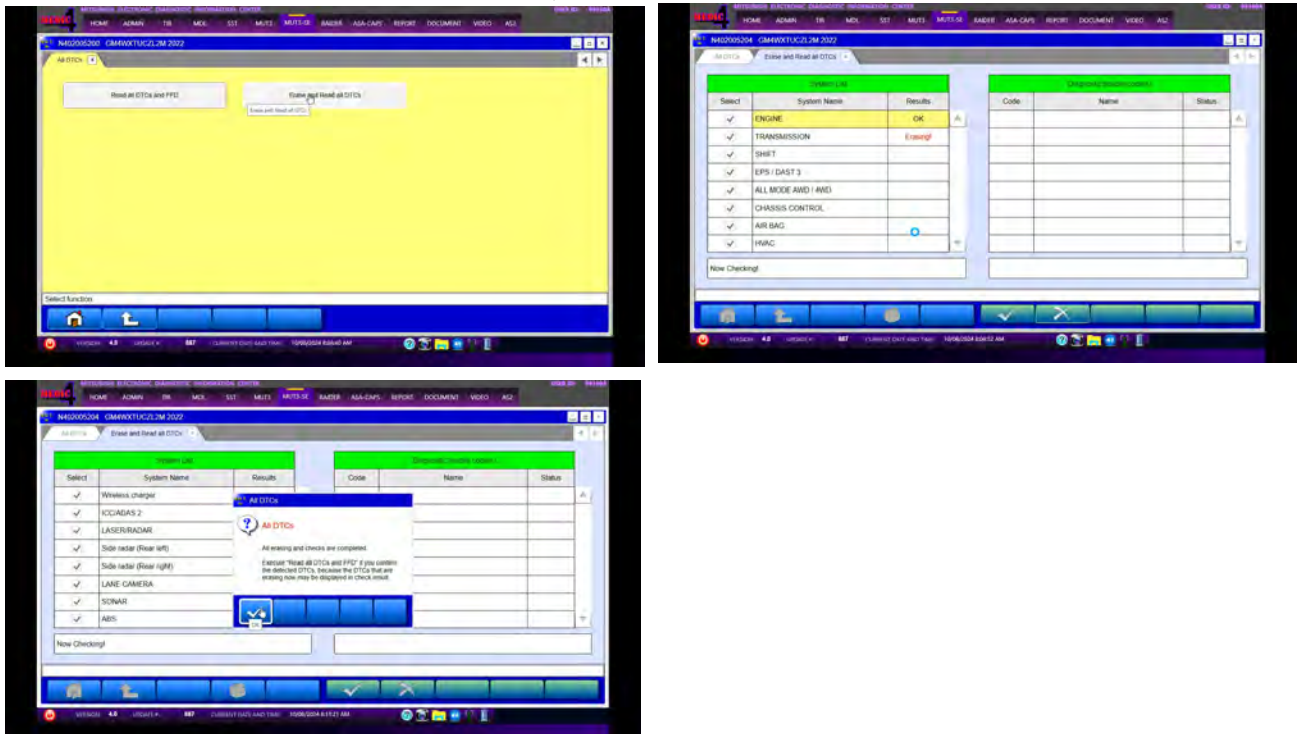
Note: Do not disturb the cable or turn off the ignition during reprogramming to prevent damage to the ECU.

- l. Once the reprogramming is initiated the screen will display the reprogramming progress. Verify that the software version has been updated.



- m. Turn the ignition switch to the "OFF" position for 10 seconds. Then turn the ignition switch back to the "ON" position.

- n. Press the "ALL DTCs" button followed by the "Erase and Read all DTCs" button.



6. Using a ball-point pen, enter the appropriate ECU part number, Software Part Number (ROM ID#), this Technical Service Bulletin number, 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.



7. Test drive the vehicle to confirm proper operation and restore all customer presets if necessary.

WARRANTY

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 information below.

Operation Code	Operation	Quantity	Work Time
558515JK	Update A/C Auto Amplifier Control Program	1	0.3h