



Technical Service Bulletin

SUBJECT: EV SYSTEM ERROR MESSAGE WITH DTC CODE P2100-00, ENGINE WARNING LIGHT AND ENGINE POWER REDUCTION DURING COLD TEMPERATURES			No: TSB-24-16-001
			DATE: May 2024
			MODEL: Outlander Plug-in Hybrid
CIRCULATE TO:	☐ GENERAL MANAGER	☒ PARTS MANAGER	☒ TECHNICIAN
☒ SERVICE ADVISOR	☒ SERVICE MANAGER	☒ WARRANTY PROCESSOR	☒ SALES MANAGER

PURPOSE

During cold temperatures, DTC P2100-00 may appear along with the engine warning light, EV system error message, and reduction in engine power. While in EV mode, due to no intake air flow, condensed water created from cooled blow-by gases may accumulate inside the valve body. When the vehicle is parked in cold temperatures for an extended period of time, the condensed water can freeze causing the throttle valve to stick. When the IG is subsequently turned ON, the throttle valve cannot go into starting position, causing the engine warning light to illuminate, DTC P2100-00 to be stored, a warning message will display, fail-safe may become activated, and engine power reduced.

On a customer complaint basis, please update the Engine ECU software.

AFFECTED VEHICLES

2023-2024 Outlander Plug-in Hybrid (VIN cut off JA4T5WA91RZ051329 / February 15, 2024)

WORK PROCEDURE

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 **868** or higher
- For Standalone MUT III units, MUT3-SE Reprogramming Database **SDB N240301NR** or higher

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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).

ECU Programming

Model	Part Name	New HW Part No.	Target HW Part No.	New SW Part No./Ver.	Target SW Part No./Ver.	Remarks
GNOW	Engine ECU	—	1860D658 (23703WW00P)	23761W111P	23761W025P	23MY
		—	23703W010P	23761W112P	23761W068P	23MY R/C
		—	23703W010P	23761W113P	23761W069P	24MY

Caution during programming:

- Turn off all electrical devices to minimize the vehicle's electrical load. Also use an external power source to ensure that the vehicle battery maintains the specified voltage during programming.
The low voltage of the auxiliary battery may cause the incompleteness of programming and once it happens, ECU must be replaced to brand new one.
- Write down all the customer's electrical device settings such as A/C and radio before programming and restore them after programming.
- Connect the MUT3-SE to an AC power source to prevent internal battery discharge.
- Before using, make sure the USB cable and MUT3-SE main harness are not damaged.
- Do not perform maintenance work in the engine room during programming.
The cooling fan may operate while programming.
- Check the All DTC after programming and erase them if any.

Software/Medic Version Verification

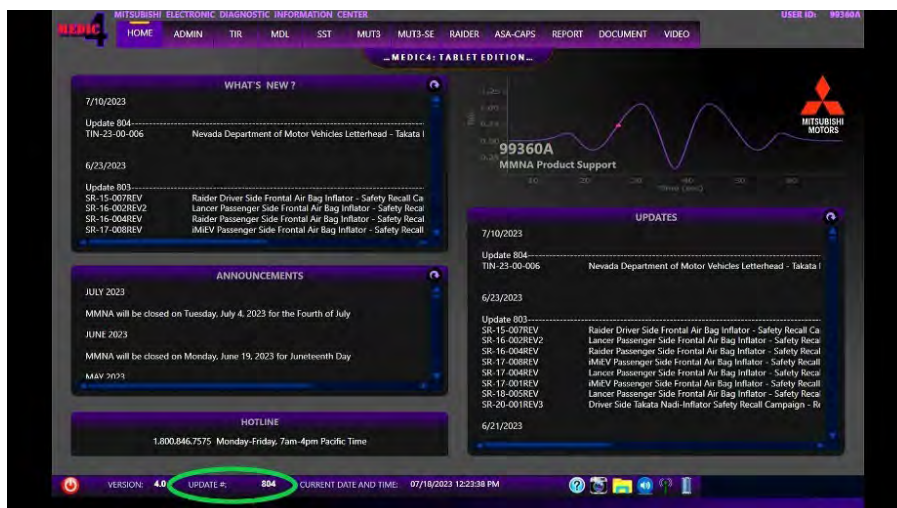
1. Verify that the ECU has not already been updated to the latest S/W number in the table above. If the ETACS ECU is at the latest level, reprogramming is not necessary.

NOTE: Reprogramming the ETACS ECU with the latest database (e.g., **SDB N240301NR**) includes all past and current reprogramming for TSBs of affected vehicles. It is not necessary to reprogram the ECU for each previous TSB.

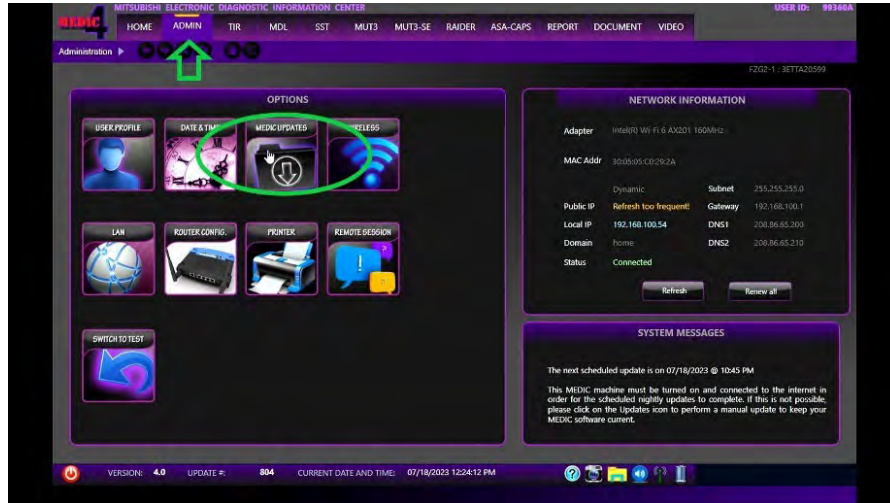
For MEDIC 3.5/4 users only: (MUT-III SEV users go to step 5)

2. Verify the MEDIC 3.5/4 is at version 3.5 and at update **868** or higher.

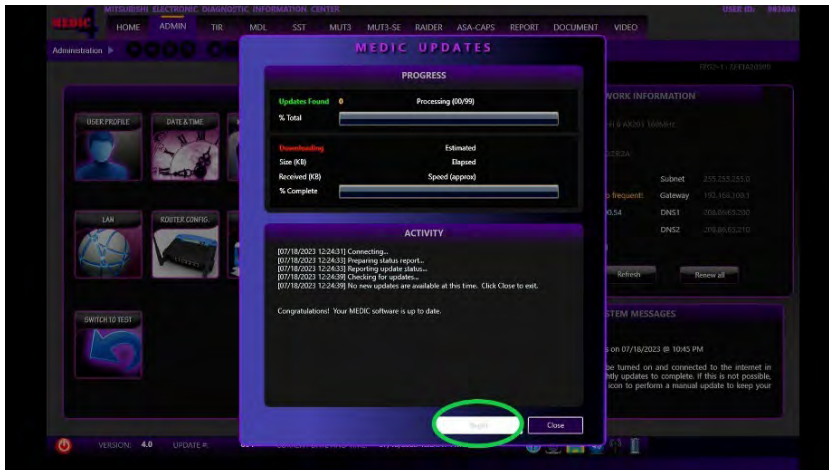
If your **MEDIC 3.5/4 update is at least 868**, continue with the Reprogramming Procedure.
If your **MEDIC 3.5/4 update is below 868**, update your MEDIC as follows.



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.**

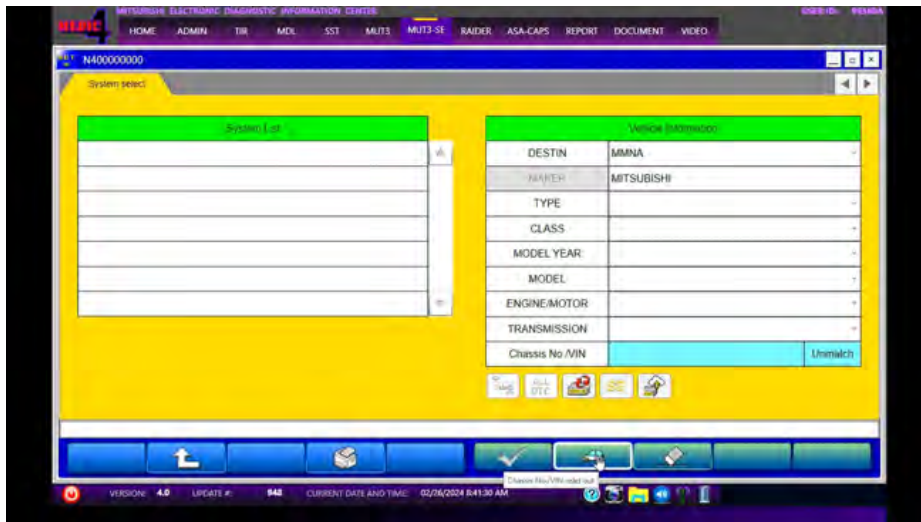


5. STANDALONE MUT-III SE SCAN TOOL VIEWER (STV) ONLY: (MEDIC 3.5 USERS – GO TO THE REPROGRAMMING PROCEDURE). Verify that your MUT-III SE has the most current version of the reprogramming database from the MUT-III SE Main Page.

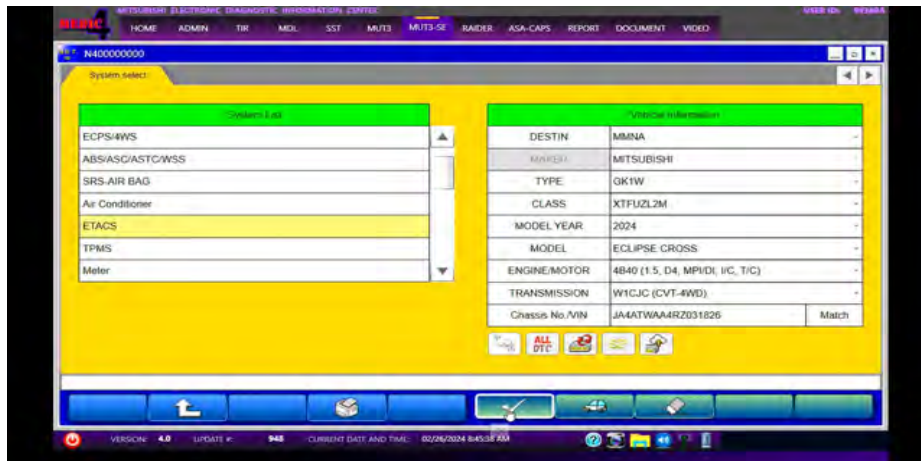
- a. Press the MUT-III SE STV button.



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



c. Confirm the vehicle information displayed is complete/correct, press the ECU reprogramming button.



d. Select SDB Data List button.



e. Verify software Information according to the chart in this bulletin.

MITSUBISHI ELECTRONIC DIAGNOSTIC INFORMATION CENTER

HOME ADMIN TR MDL SST MUT3 MUT3-2 RAIDER ASA-CAPS REPORT DOCUMENT VIDEO

9102 ID: 91000A

N410001509 GK1WX1FUZJ2M 2024

SDB Data List

SDB Ver: N231201 SDBN Ver: N231202NR

Code No.	15ver 1501 Part No.	15ver 1501 Part No.	15ver 1501 Part No.	15ver 1501 Part No.	15ver 1501 Part No.	Code No.	Code No.	Code No.	Reference
8637A029 mff	8637B500	8637B481-A	8637B500	8637B480-A	8637B479-A	24 ECLIPSE CROSS Climate control when using remote engine starter function.	CC	20231229	
1862D229 mff	1860D859	1860D5901	1860D859	1860D859	1860D5900	23 OUTLANDER SPORT(RV/RV) ASX NAS/ISRAEL 4B11 D4 CVT EGR Monitor MIL (P0400) Misdetecion	CC	20230704	CL201904020 011
1862D228 mff	1860D779	1860D77901	1860D779	1860D77901	1860D77900	22 OUTLANDER SPORT(RV/RV) ASX NAS/ISRAEL 4B11 D4 CVT EGR Monitor MIL (P0400) Misdetecion	CC	20230704	CL201904020 011

Press the return one level button to exit this function. Ver SEW23121-00

VERSION: 4.0 UPDATE IN: 948 CURRENT DATE AND TIME: 02/26/2024 04:54 AM

REPROGRAMMING PROCEDURE

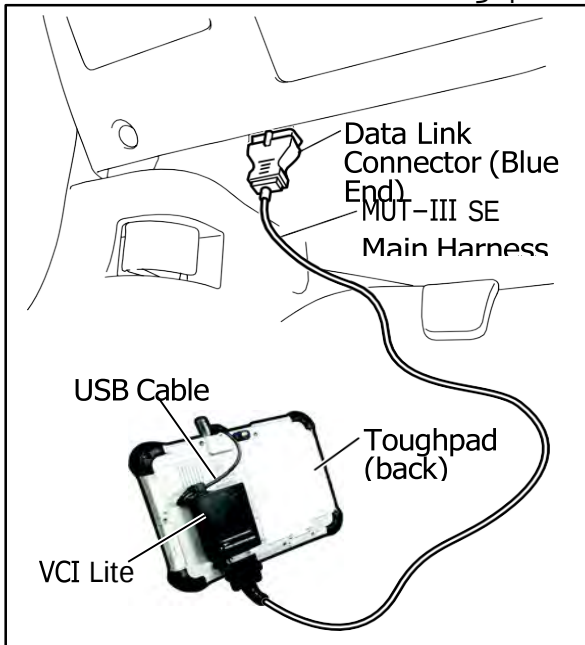
CAUTION

To ensure that the vehicle battery maintains 12V during the procedure, hook- up 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: Turn the VCI power switch ON. Verify that the indicator lamp in the upper right corner of the screen is green.

CAUTION

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.

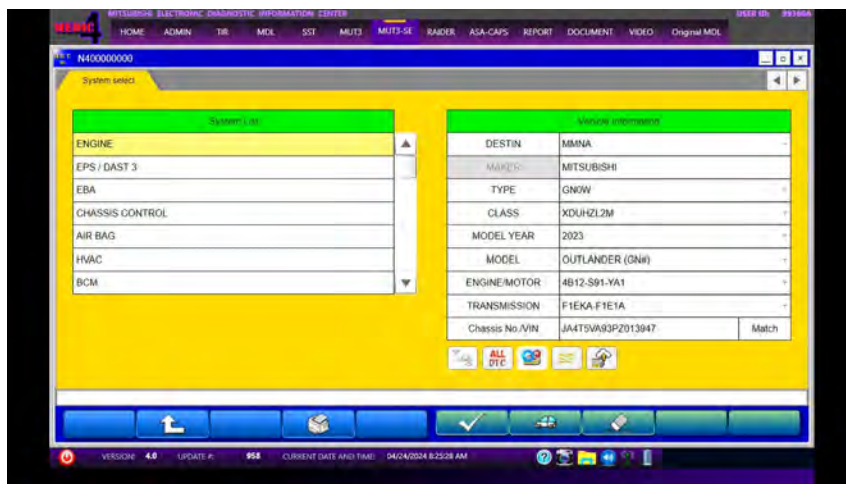


Note: Do not disturb the cable or turn off the ignition during reprogramming to prevent damage to the ECU.

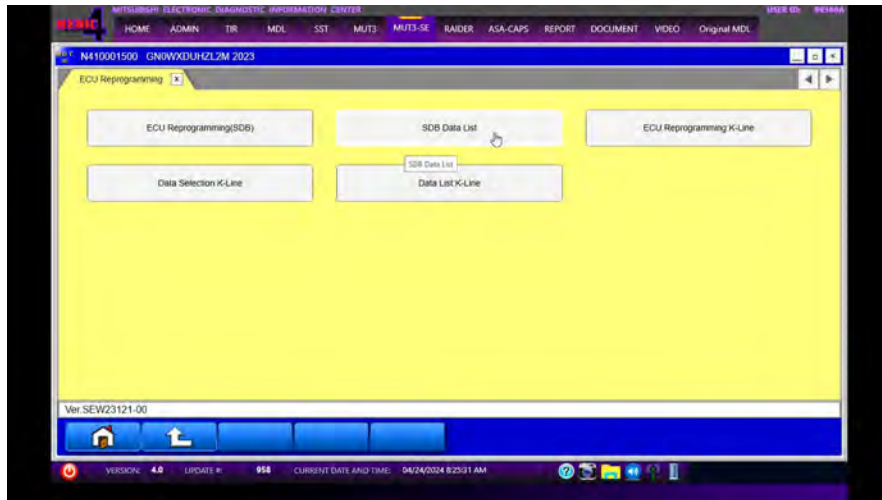
2. Turn the power switch to the "ON" position.
3. Turn on flashers to prevent vehicle from shutting/powering down.
4. Press the MUT-III SE STV button.



5. Press the Chassis No/VIN read out (car icon). Look at the label on the passenger side B pillar to identify the appropriate class. (See B pillar label below; class is labeled as "model"). Verify all vehicle information.



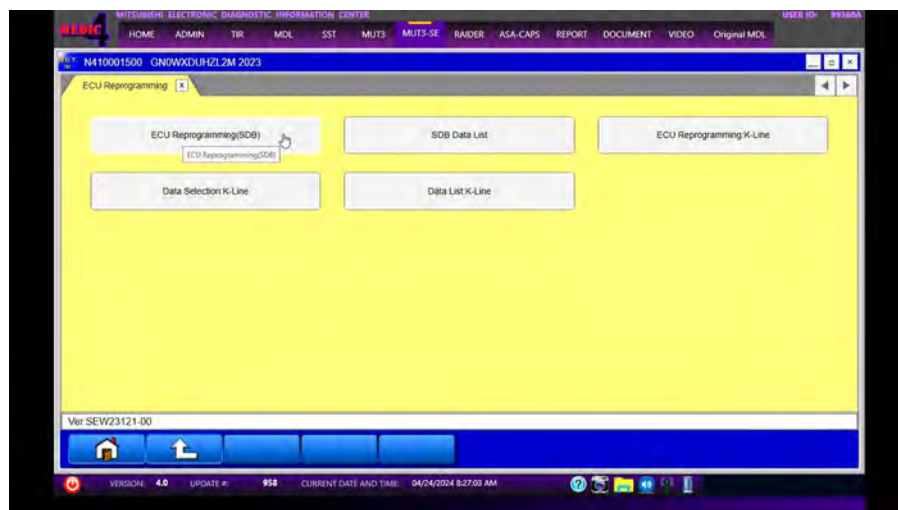
6. Select SDB Data List.



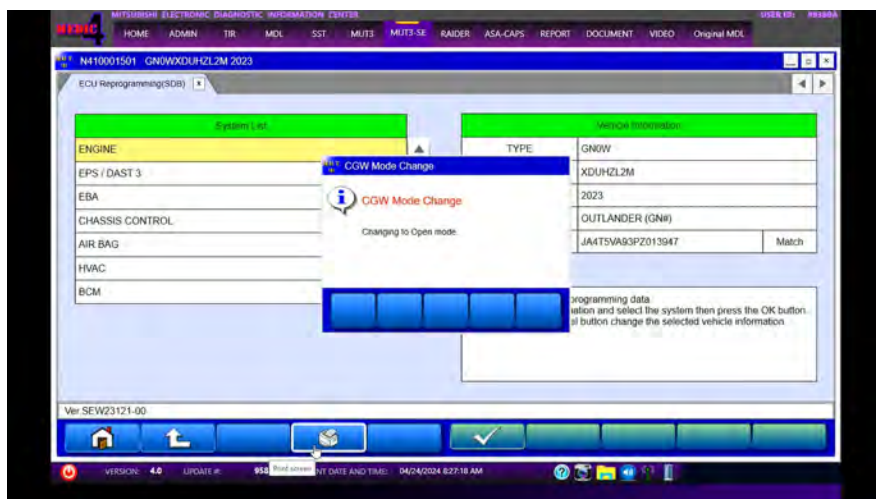
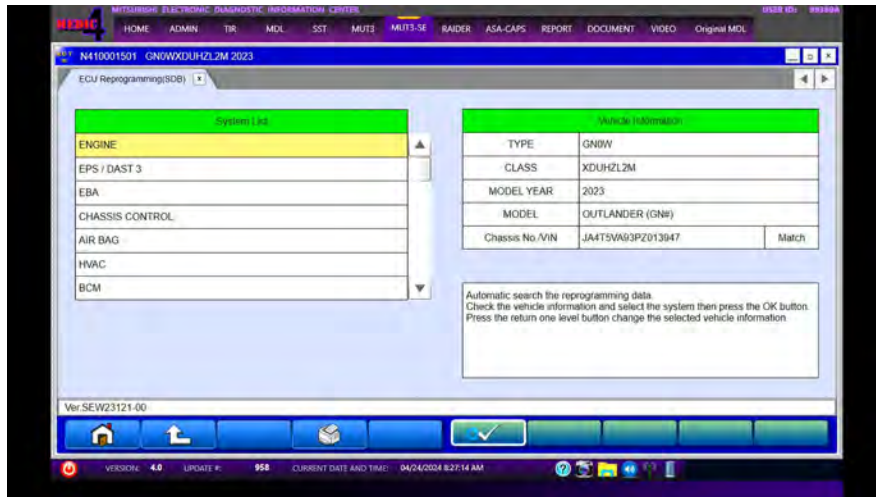
7. Verify software Information according to the chart in this bulletin.



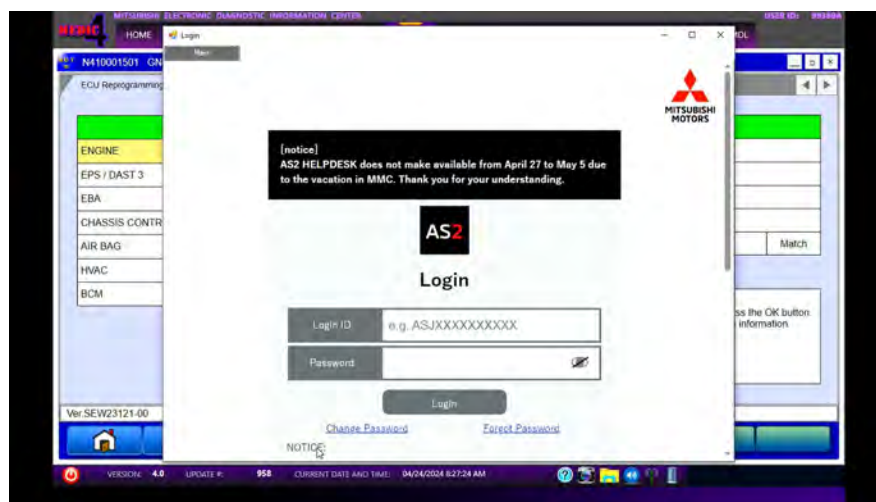
8. Select ECU Reprogramming (SDB).



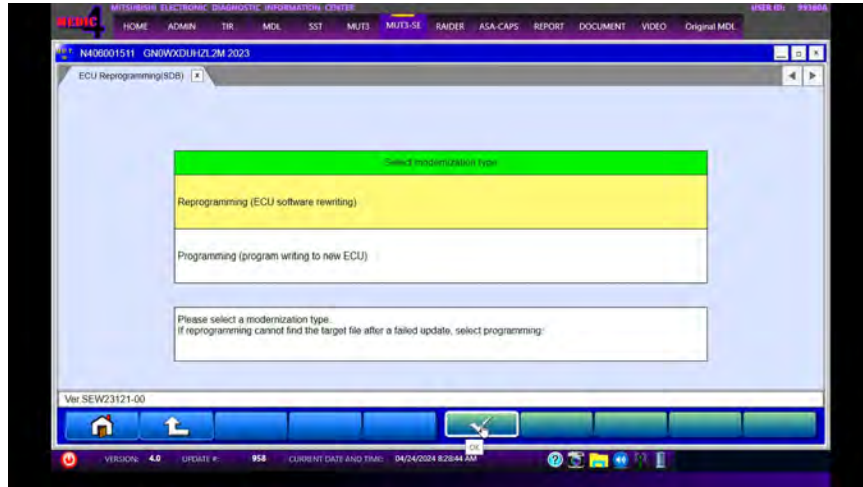
9. Select ENGINE and press the OK button.



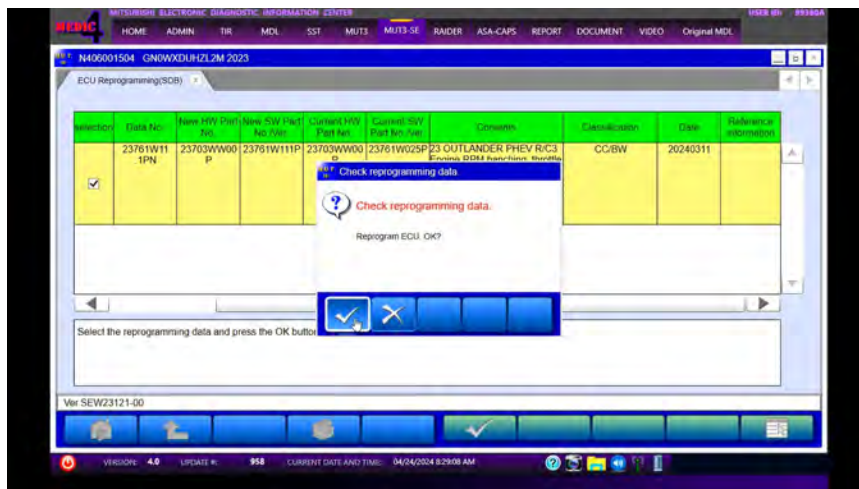
10. Log into AS2.



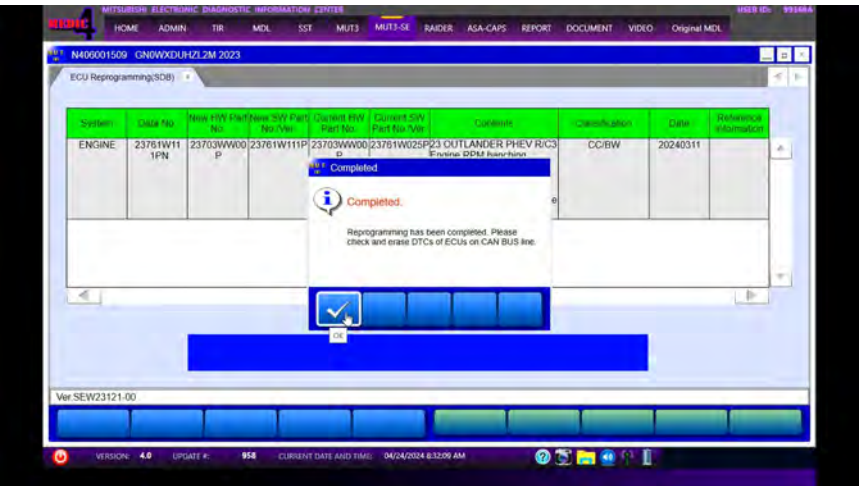
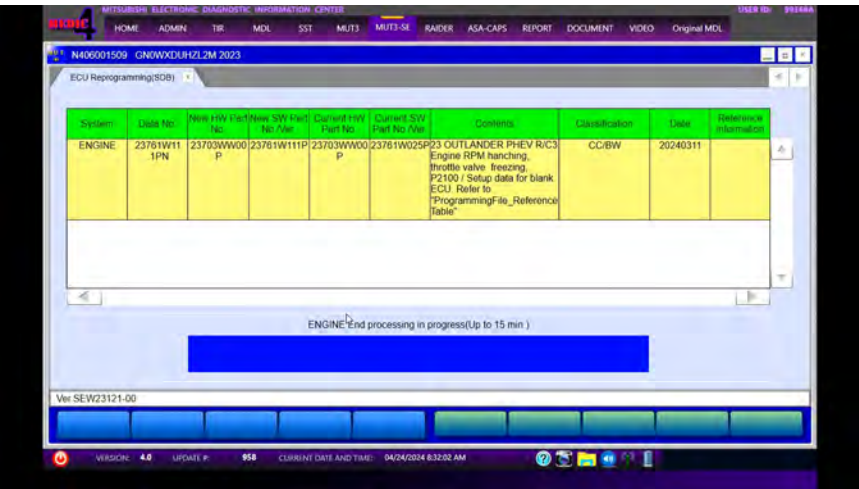
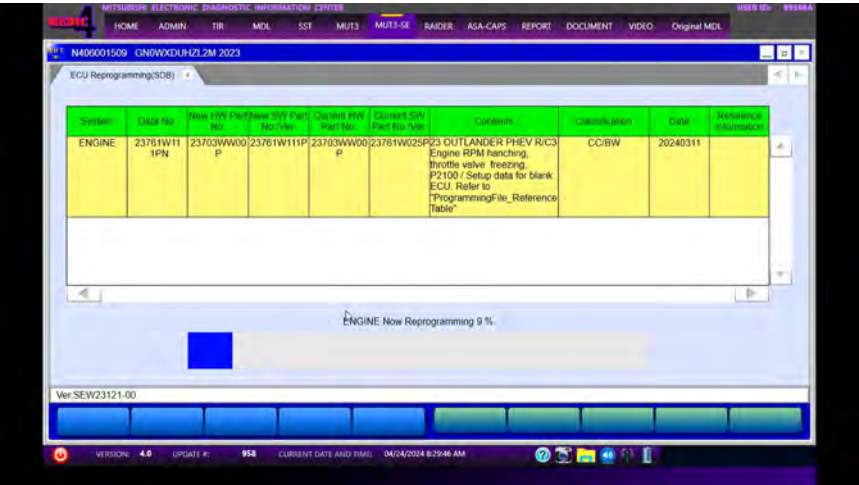
11. Select Reprogramming (ECU) software rewriting and press the OK button.



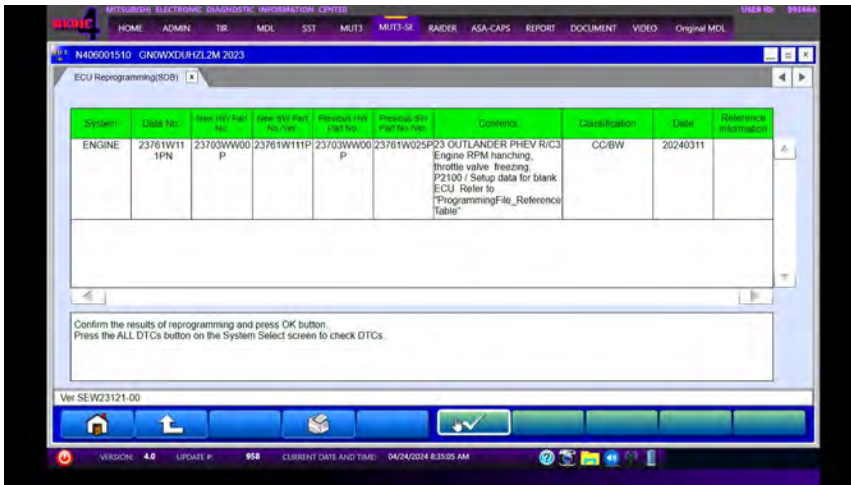
12. Check the reprogramming data, check the box and press the OK button to reprogram.



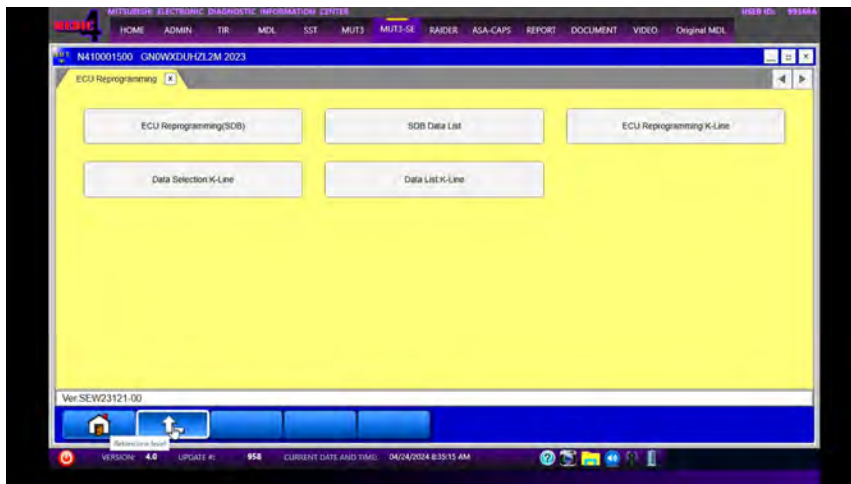
13. ENGINE reprogramming status bar will be displayed (allow approximately 15 minutes). When completed press OK.



14. Confirm the reprogramming results and press the OK button.



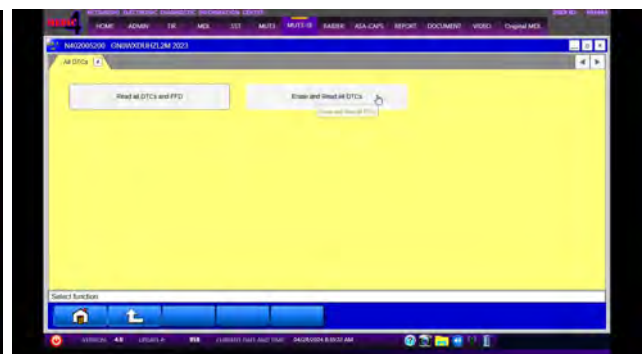
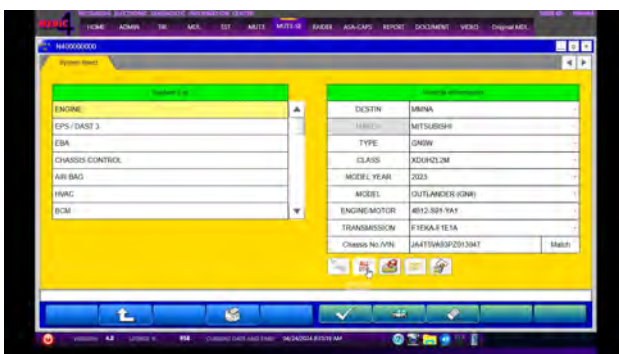
15. Return up one level.



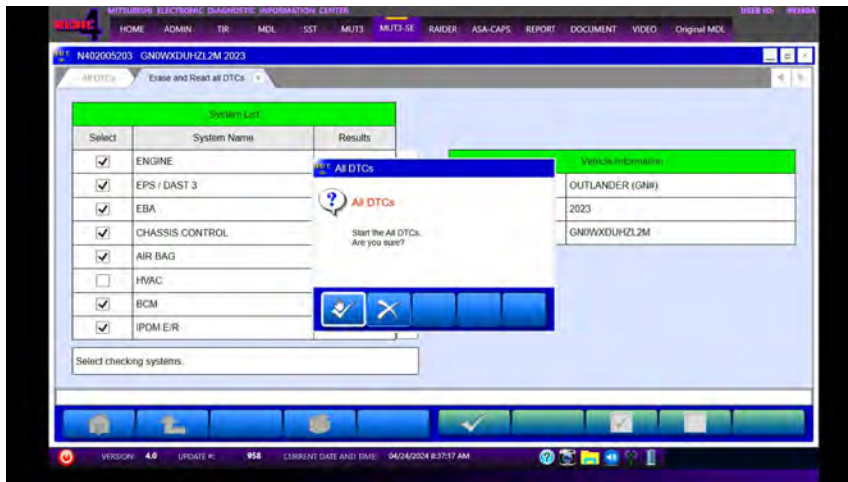
16. Press power switch without depressing the brake pedal and place the vehicle in IG-OFF mode for 10 seconds then turn IG-ON.

Press "ALL DTC" button to initiate the "Erase and Read all DTCs". Return to the System Select screen to select Erase and Read all DTCs . Select all systems from the list and press OK.

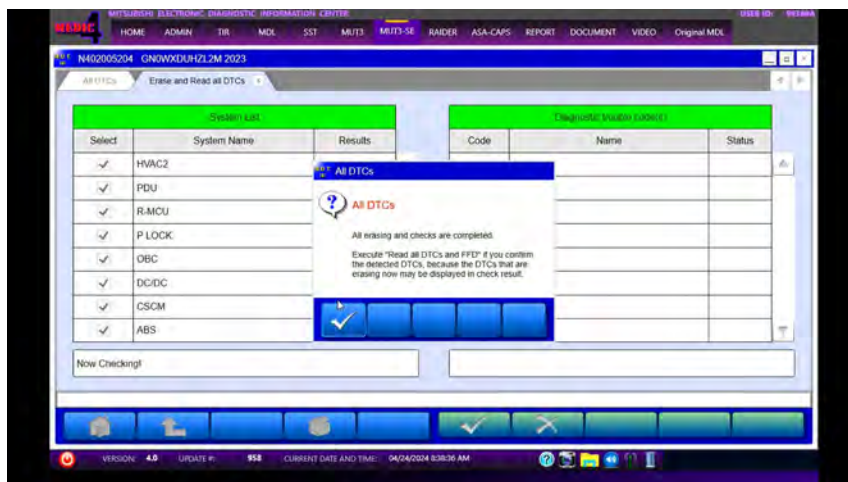
IMPORTANT: The "Erase and Read all DTCs" must be performed since DTCs may be generated and stored.



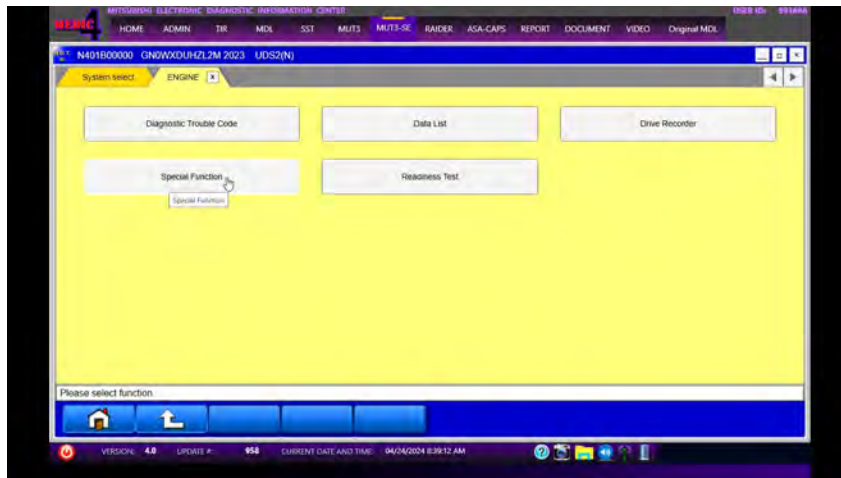
17. Press OK to start checking All DTCs.



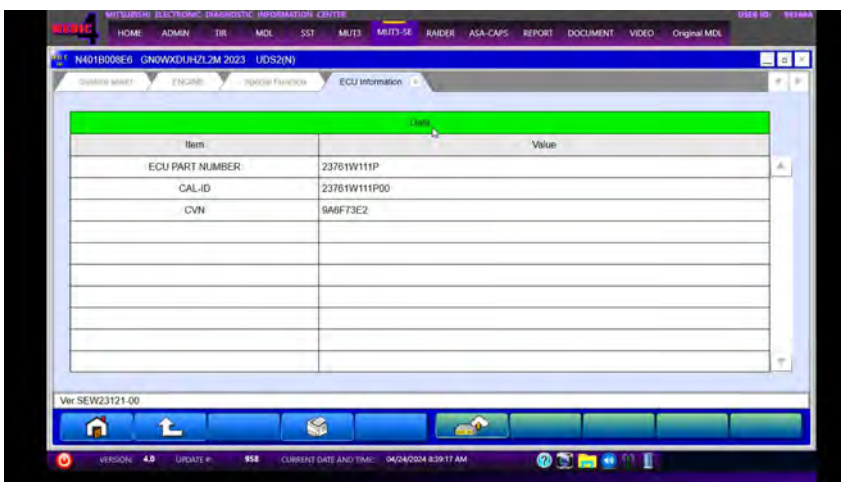
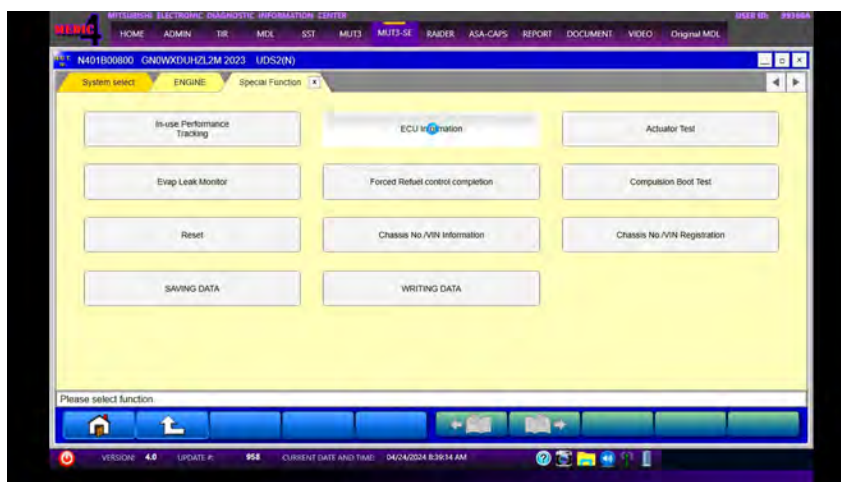
18. When all erasing and checks are completed, press OK.



19. From the ENGINE tab, select Special Function.



20. From the SPECIAL FUNCTION tab, select ECU Information and verify the ECU Part Number.



21. 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.

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MOTOR SALES OF AMERICA, INC.

AUTHORIZED MODIFICATIONS

These Modifications Have Been Approved as Appropriate by EPA and NHTSA

THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:

PART NUMBER: 1860DXXX

VENDOR CODE: N/A

ROM ID #: 1860C2XXXX

TSB: TSB-20-13-XXX

A/T: A/T

DEALER CODE: 99332

DATE: 06/25/20

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AUTHORIZED MODIFICATIONS

P/N: [Blank]

Vndr Code: [Blank]

TSB: [Blank]

Dir Code: [Blank]

Date: [Blank]

Engine Compartment Label

Control Module Label

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

SOFTWARE/PARTS INFORMATION

Model	Part Name	New HW Part No.	Target HW Part No.	New SW Part No./Ver.	Target SW Part No./Ver.	Remarks
GNOW	Engine ECU	—	1860D658 (23703WW00P)	23761W111P	23761W025P	23MY
		—	23703W010P	23761W112P	23761W068P	23MY R/C
		—	23703W010P	23761W113P	23761W069P	24MY

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
138501PF	Reprogramming engine ECU	1	0.3H