



Technical Service Bulletin

SUBJECT: CHECK ENGINE LIGHT ILLUMINATES WITH DTC P0401/P0400			No: TSB-23-13-004
			DATE: August 2023
			MODEL: Outlander Sport
CIRCULATE TO:	☐ GENERAL MANAGER	☒ PARTS MANAGER	☒ TECHNICIAN
☒ SERVICE ADVISOR	☒ SERVICE MANAGER	☒ WARRANTY PROCESSOR	☒ SALES MANAGER

PURPOSE

This reflash is to correct the ENGINE ECU software when the check engine illuminates while idling or driving and the DTC Codes below are stored:

2019 Outlander Sport: P0401 (Exhaust Gas Recirculation Flow Insufficient Detected)
2020-2023 Outlander Sport: P0400 (Exhaust Gas Recirculation System)

Please reprogram the ECU with the countermeasure software to correct the issue of the EGR Valve Angle, upon customer complaint.

AFFECTED VEHICLES

2019-2023 Outlander Sport

REPAIR PROCEDURE

- Confirm your MUT-III SE is updated with the latest reprogramming database.
- Write down all the electrical device settings such as A/C and radio before reprogramming. The settings should be restored after reprogramming.
- 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 reprogramming.
- Make sure the USB cable and MUT-III SE main harness are not damaged.
- Connect the MUT-III SE to an AC power source to prevent internal battery discharge.
- Stay away from the under hood area during reprogramming. If the connection between the Engine ECU and ETACS is lost, the cooling fan operates as fail-safe.

NOTE: If an affected vehicle has a Malfunction Indicator Lamp (MIL) illuminated before reprogramming, and DTCs are listed in the ECU memory, save the ALL-DTC results and then erase the codes prior to reprogramming. If hard codes are present that are applicable to the target ECU and won't clear, diagnose and repair these codes first and then proceed with reprogramming.

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 **808** or higher
- For Standalone MUT III units, MUT3-SE Reprogramming Database **N230701** or higher

ECU REPROGRAMMING CHART

Model	Data No. (MFF File Name)	New HW Part No.	New SW Part No./Ver.	Target HW Part No.	Target SW Part No./Ver.	Remarks
GA2W	1860D225	1860D309	1860D30901 /14 72 12	Same as New	1860D30900 /14 72 09	19MY NAS GA2W 4B11 CVT
	1862D226	1860D472	1860D47201 /15 74 05	Same as New	1860D47200 /15 74 03	20MY NAS GA2W 4B11 CVT
	1862D227	1860D744	1860D74401 /16 37 03	Same as New	1860D74400 /16 37 01	21MY NAS GA2W 4B11 CVT
	1862D228	1860D779	1860D77901 /16 50 05	Same as New	1860D77900 /16 50 03	22MY NAS GA2W 4B11 CVT
	1862D229	1860D859	1860D85901 /17 00 04	Same as New	1860D85900 /17 00 02	23MY NAS GA2W 4B11 CVT

REPAIR PROCEDURE

SOFTWARE/MEDIC VERSION VERIFICATION

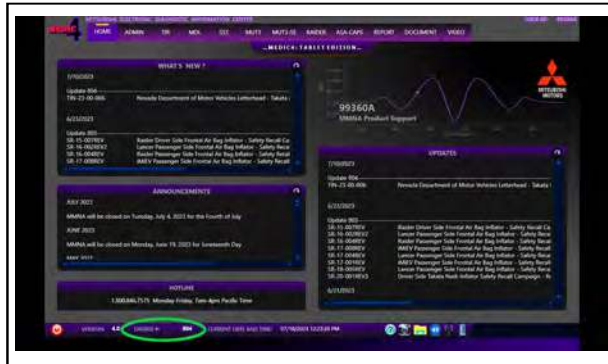
1. Verify that the ECU has not already been updated to the latest S/W number in the table above. If the IPDM ECU is at the latest level, reprogramming is not necessary.

NOTE: Reprogramming the target ECU with the latest database (e.g., **N230701**) 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 SE users go to step 5)

2. Verify the MEDIC 3.5/4 is at version 3.5 and at update **808** or higher.

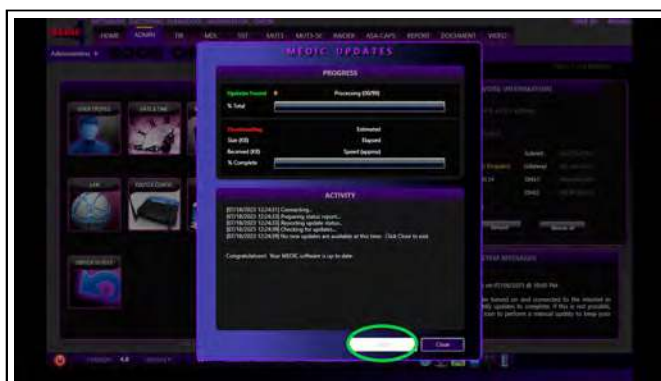
If your **MEDIC 3.5/4 update is at least 808**, continue with the Reprogramming Procedure. If your **MEDIC 3.5/4 update is below 808**, update your MEDIC as follows.



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**.



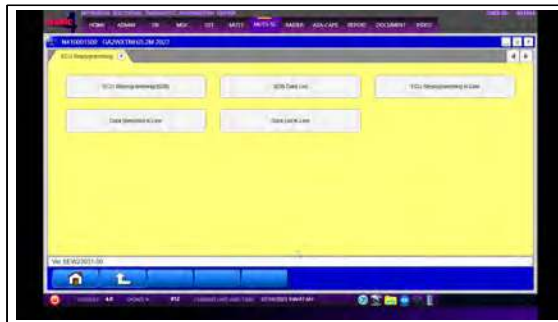
5. Click "STV".



a. Confirm the vehicle information is accurate and click the ECU reprogramming button.

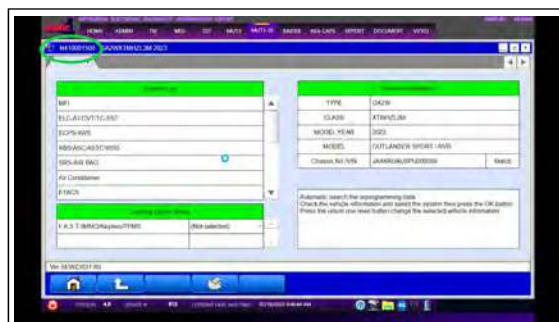


b. Click "ECU Reprogramming (SDB) and press the OK button".



c. Confirm that the database number displayed is **N230701** or higher.

- If the database number displayed on your MUT3-SE is **N230701** or greater, continue to the next section.
- If the reprogramming database number displayed on your MUT3-SE is lower than **N230701**, then the MUT3-SE database needs to be updated.



d. Once the database number is confirmed, hit the Home button to go back to the System Select screen.

REPROGRAMMING PROCEDURE

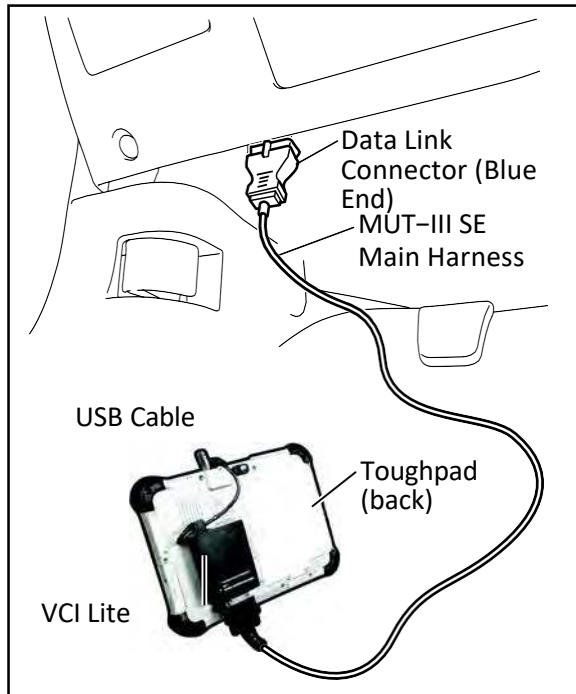


To ensure that the vehicle battery maintains 12V during the procedure, hook- up a battery charger to the vehicle during the procedure.

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.

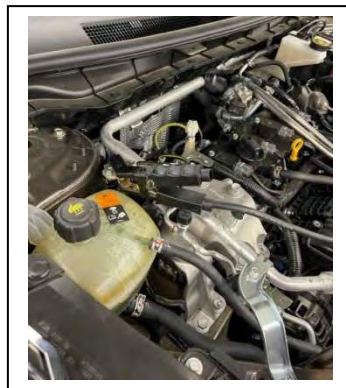
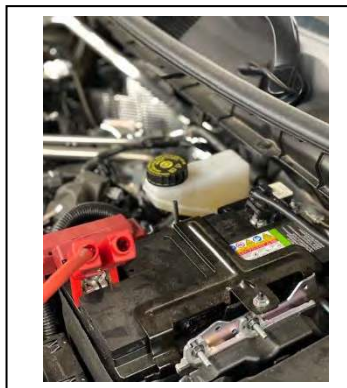


- Turn the MEDIC PC/tablet on. If the battery indicator in the lower right hand corner of the screen does not show a full charge, it is recommended that either the battery be charged prior to beginning or be used with the A/C power adaptor connected.
- Connect the USB cable to the VCI/VCI Lite. When 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 (p/n MB991824): Turn the VCI power switch ON. Verify that the indicator lamp in the upper right corner of the screen is green.

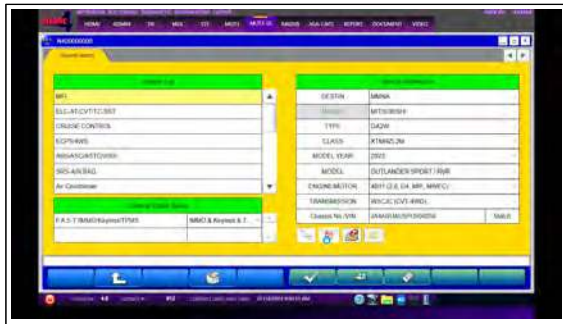


DO NOT DISTURB THE HARNESS CABLES OR CONNECTIONS DURING THE REPROGRAMMING PROCESS AS IT COULD CAUSE THE CONTROL UNIT TO LOSE DATA. IF THE USB CABLE IS DISCONNECTED DURING THIS PROCEDURE, A WARNING MESSAGE WILL DISPLAY.

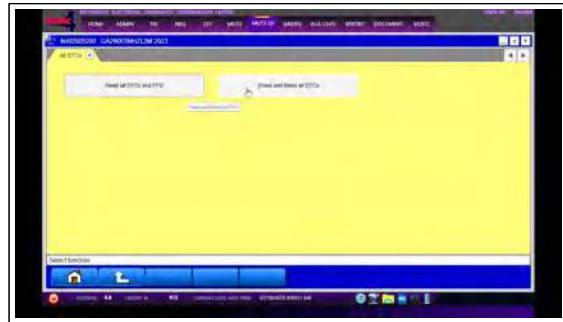
NOTE: Due to limited space it may be easiest to connect cable onto negative ground post and ground strap as shown below.



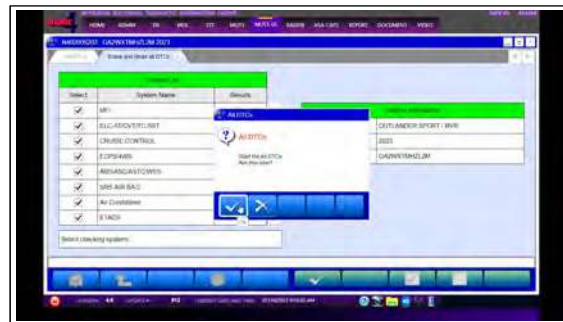
2. Turn the ignition switch to the "ON" position.



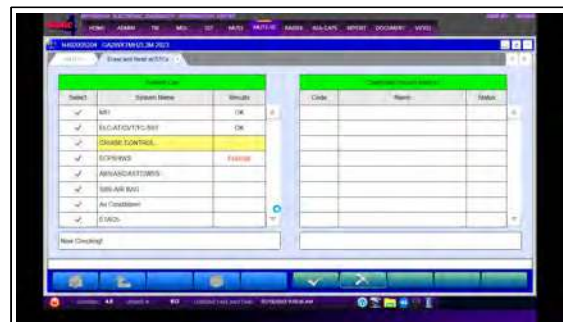
a. Select ALL DTCs.



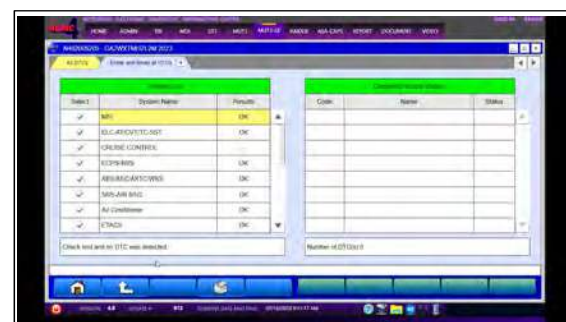
b. Select Erase and Read all DTCs.



c. Click the OK button to begin.



d. Results and a completion notification will be displayed.



7. 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.

MITSUBISHI MOTOR SALES OF AMERICA, Inc.		AUTHORIZED MODIFICATIONS		These Modifications Have Been Approved as Appropriate by EPA and DOT	
THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:					
PART NUMBER 1860DXXX	VENDOR CODE N/A	ROM ID # 1860C2XXXX			
TSB ENG TSB-20-13-XXX		A/T 99332			
A/T 06/25/20		DATE 06/25/20			
Engine Compartment Label			Control Module Label		

8. Test drive the vehicle to confirm proper operation.

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
138501LG	Engine-ECU reprogramming	1	0.3H