

Technical Service Bulletin

		No:	TSB-24-54-002
	TTEDV	DATE:	April 2024
(GED AUXILIART BA	ATTERT	MODEL:	2023-24 Outlander Plug-in Hybrid
[] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE MANAGER	[X] WARRANTY PROCESSO	R [X] SALES MANAGER
	[] GENERAL MANAGER		Content Date: Date: Model:

PURPOSE

This reprogramming of the ECU is to change the auxiliary battery charge stopping conditions under low State of Charge (SOC) conditions of the drive battery when the vehicle turns off. Additionally, the configuration update of the IPDM E/R and BCM increases the charging amount while reducing the discharge amount from the auxiliary battery while the vehicle turns off.

On a customer complaint basis, please reprogram the PHEV-ECU with the latest one and update the configuration (C/U setup) of IPDM E/R and BCM.

AFFECTED VEHICLES

2023-2024 Outlander Plug-in Hybrid, VIN Cut-off: JA4T5VA98RZ050396 (built prior to 2/8/2024)

REPAIR PROCEDURE

When battery capacity test is performed, please refer to (4) Electrical & Power Control section in TSB-24-42-001 (Service Manual Revision) for information regarding removing battery cable before voltage measurement.

CAUTION DURING 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.

The low voltage of the auxiliary battery may cause the incompletion of reprogramming 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 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 room during reprogramming. The cooling fan may operate while reprogramming.
- **Turn ignition off for 10 seconds** before checking the All DTC after reprogramming and erase them if any.

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REPAIR PROCEDURE (Continued)

- **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.
- 1. Open the tailgate and engine hood. Do not close until the program update is completed.
- 2. Turn the power mode of the power switch on and hold the power switch for 5 seconds or longer.
- 3. Turn the power mode of the power switch on and do not turn off until the control program update is completed.
- 4. Update the control program with MUT3-SE.

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 **862** or higher
- For Standalone MUT III units, MUT3-SE Reprogramming Database SDBN N240201NR or higher

Model	Data No.	New HW Part No.	New SW Part No./Ver.	Target HW Part No.	Target SW Part No./Ver.	Remarks
Outlander PHEV	237P8W90.6PN	-	237P8W906P	237P0WW01P 237P0W009P	237P0WW01P 237P8W009P 237P8W902P	NAFTA With QC
Outlander PHEV	237P8W03.4PN	-	237P8W034P	237P0W013P 237P0W021P	237P8W009P 237P8W902P	NAFTA With QC
Outlander PHEV	237P8W90.7PN	-	237P8W907P	237P0W000P 237P0WW10P	237P0W000P 237P8W010P 237P8W903P	NAFTA Without QC
Outlander PHEV	237P8W03.5PN	-	237P8W034P	237P0W014P 237P0W022P	237P8W014P 237P8W022P	NAFTA Without QC

ECU REPROGRAMMING CHART

SOFTWARE/MEDIC VERSION VERIFICATION

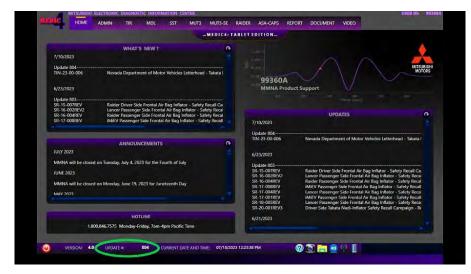
1. Verify that the ECU has not already been updated to the latest S/W number in the table above. If the ETACS ECU is at the latest level, reprogramming is not necessary.

NOTE: Reprogramming the ETACS ECU with the latest database (e.g., **SDBN N240201NR**) 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 **862** or higher.

If your **MEDIC 3.5/4 update is at least 862**, continue with the Reprogramming Procedure. If your **MEDIC 3.5/4 update is below 862**, 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**.

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USER PROFILE DATE & TIME	Updates Found Ø Processing (10,199) % Total	NORK INFORMATION
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SWITCH TO TEST	Congratulations! Your MEDIC software is up to date.	STEM MESSAGES 5 on 07/16/2023 @ 10/45 PM
		be turned on and connected to the internet in htly updates to complete. If this is not possible, icon to perform a manual update to keep your

- 5. STANDALONE MUT-III SE SCAN TOOL VIEWER (STV) ONLY: (MEDIC 3.5 USERS GO TO THE <u>REPROGRAMMING PROCEDURE</u>). 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.

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		_ STV &		
	What's NEW	Topics		
	Dec. 2023 - Diagnostic database is updated.	- VCI type and (Dec. 2022 U	vehicle model compatibility.	
	The notice of fixed error. (To What's NEW for more details)	 In the use of the us	ton for V.C.ILite	
	- Aug. 2023 -	-		
			1	
	7 M.U.TIII Manual	Configuration	Exit	

b. Verify the Vehicle Information and if correct, select PHEV from the System LIst and press the ECU reprogramming button.

Systemy Link		1.0	Vehicle information	
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SONAR		MAKER	MITSUEISHI	
VSP		TYPE	GNOW	
PHEV		CLASS	XDUHZL2M	-
BMU2		MODEL YEAR	2023	17
BMU		MODEL	OUTLANDER (GN#)	~
HVAC2	+	ENGINE/MOTOR	4B12-S91-YA1	1
	_	TRANSMISSION	F1EKA-F1E1A	
		Chassis No /VIN	JA4T5VA93PZ013947	Match
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c. Log-in with AS2 credentials.

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PDU		45-		
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d. Press the Special Function button.

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e. Press the ECU Information button.

MAC KEY Writing	ECU Information	Test
Actuator Test	EV Coolant leftling control	Engine compression measurement
Maintenance mode	Control signal 1 for Charge port Lid Untock Actuator	Control signal 2 for Charge Connector Unlock Actuato
Computation Boot Test	Chassis No /VIN Information	Chassis No /VIN Registration

f. Refer to the Reprogramming Chart and verify the ECU Part Number. If correct, proceed to the Reprogramming Procedure.

	DWI	
item	Value	
ECU PART NUMBER	237P8W009P	

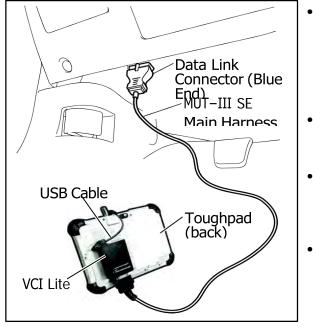
REPROGRAMMING PROCEDURE

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: 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.



4/18/2024

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

MUT3-SE				<u> </u>
		U.TIII Second Editor		
		STV 8		
	What's NEW	Topics		
	Dec: 2023 - Diagnostic database is updated. The notice of fixed error. (To What's NEW for more details)	(Dec. 202) - In case that - In the use	t Systems(Options) are not displayed of V.C.I.	
	- Aug. 2023 -	- USB com	ction for V.C.ILite.	
	? M.U.TIII Manual	Configuration	Exit	
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5. Press the Chassis No/VIN read out (car icon) and verify all vehicle information. 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").

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Report of a			Carrage Millionen	_
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10 W X 4 B 1 F 1 F	DUH2 2→S KA I	(L2I)1+`	Υ <mark>Α1</mark> ΙΑε×τΡ	
10WX 4B1	DUH2 2→S KA I	(L2I)1+`	M Y A 1	
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6. Verify the Vehicle Information and if correct, select PHEV from the System LIst and press the ECU reprogramming button.

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SONAR		MAKER	MITSUBISHI	
VSP		TYPE	GNOW	-
PHEV		CLASS	XDUHZL2M	-
BMU2:		MODEL YEAR	2023	
BMU		MODEL.	OUTLANDER (GN#)	-
HVAC2	+	ENGINEMOTOR	4B12-S91-YA1	
		TRANSMISSION	F1EKA-F1E1A	
		Chassis No 2001	JA4T5VA93PZ013947	Match
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7. Log-in with AS2 credentials.

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Sister and			MITSUBISHI	
PDU		453		
R-MCU		AS <mark>2</mark>		
PLOCK		1		
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CSCM	COBINITION (0.1317)	hojaaaaaaaaa		-
ABS	Panaword	2	*	
		Login	-	Match
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	-Please do NOT bookmark to			
		fter 60 minutes. Please refresh the pa	ge	
	tó login.	N	- 1	

8. Refer to the Reprogramming Chart and verify the ECU Part Number.

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9. Press the ECU reprogramming button.

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ceć:		CLASS	X009012M							
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		Chassis No./VN	JA4794893FZ013047	34	latety -					
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						Ver: SEW23121-0	0			_
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10. Choose PHEV from the System List and press the OK button.

VSP CLASS XDUR2L2M PHEY MODEL YEAR 2023 BMU2 OUTLANDER (GNR) U BMU Chasse No./NH JARTSVARDP2013847 Malch HNAC2 KANDEL KANDEL YEAR KANDEL YEAR	ECU Reprogramming(SDB)	_	_		
VSP CLASS XDUR2L2M PHEV MODEL YEAR 2023 BMU2 OUTLANDER (ONI) U HAC2 OUTLANDER (ONI) Match POU Automatic search the system files press the OK buildon Outbuildon	System Lat		a second second second	Vence Inormeter	
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Automatic search the reprogramming data Check the vehicle information and select the system than press the OK buttor	HVAC2				
Check the vehicle information and select the system then press the OK button	PDU	+	Automatic search the re	minoramming data	
			Press the return one let	vel button change the selected vehic	de information
		9			

11. Select Reprogramming (ECU software rewriting) for the modernization type and press OK.

N406001511	GN0WXDUHZL2M 2023	_	<u>1</u>	R
ECU Reprogram	ming(SDB)		4 >	•
	See to compare the type			
	0			
	Reprogramming (ECU software rewriting)			
	Programming (program writing to new ECU)			
	Please select a modernization type. If reprogramming cannot find the target Ne after a failed update, select programming.			
Ver.SEW23121-0	0			
		and the second		

12. Check the reprogramming data and press the OK button.



13. A progress status bar will appear. Please allow up to 15 minutes for completion. When completed, press the OK button.



14. PHEV End processing will begin and a process status bar will appear.



15. Refer to the Reprogramming Chart to confirm the results.

	GN0WXDU									4
System	Credit No.	James over them	New Sev Post	Prevention	Press and the second se	Contanta	Carselfunder	Date	Reference	1
PHEV	237P8W90 6PN	41 237P0W009 P	No (We) 237P8W906 P	237P0W009			CC	20240220	information	-
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Confirm the	iesuits of repro	gramming and on the Syster	I press OK but n Sélect scree	ton. n to check DT	Cs.				Þ	-
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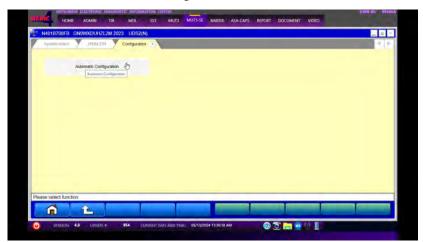
16. Return to the System List under the System Select tab choose IPDM E/R and press the OK button.

System Ltd.			Vito Cal India malian	
EBA		DESTIN	MMNA	
CHASSIS CONTROL		MARED	MITSUBISHI	
AIR BAG.	P	TYPE	GNOW	
HVAC	1	CLASS	XDUHZL2M	
BCM	1	MODEL YEAR	2023	
IPDM E/R		MODEL	OUTLANDER (GN#)	
METER / M&A		ENGINE/MOTOR	4812-S91-YA1	
		TRANSMISSION	F1EKA-F1E1A	
		Chassis No.MIN	JA4T5VA93PZ013947	Match
t s				-

17. Press the Configuration button.

System select PDM ER		 A
Diagnostic Trouble Code	Data Lat	Drive Recorder
Special Function	Configuration Jac	
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Special Francism	0	
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18. Press the Automatic Configuration button.



19. Verify the VIN/Chassis Number and press the OK button.

N40187084A GN0WXDUHZL2M 202		natic Configuration	
		Function	
		Automatic Configuration	
	VIN/Chassis No.	JA4T5VA93PZ013947	
	function in Engine/ET	ress the OK button ct. exit this function and write correct VIN with VIN Writing	
Ver.SEW23121-00	-		

20. Automatic Configuration begins and a status bar will be displayed. Upon completion press the OK button.



21. Return to the System List under the System Select tab, choose BCM and press the OK button.

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System select				4 1
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AIR BAG		TYPE	GNOW	3
HVAC		CLASS	XOUHZL2M	
BCM		MODEL YEAR	2023	3
IPDM E/R		MODEL	OUTLANDER (GN#)	-
METER / M&A	*	ENGINE/MOTOR	4B12-S91-YA1	
		TRANSMISSION	FIEKA-FIEIA	
		Chassis No./VIN	JA4T5VA93PZ013947	Match
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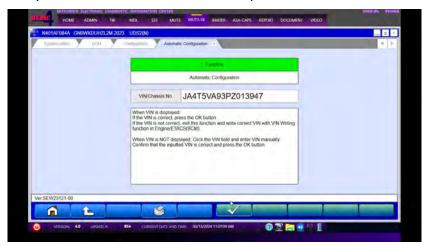
22. Press the Configuration button.

System suted BCM R			4 >
Diagnostic: Trouble Code	Data List	Drive Recorder	
Special Function	Configuration		
	Longanue		
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	Language		
Please select function.			

23. Press the Automatic Configuration button.



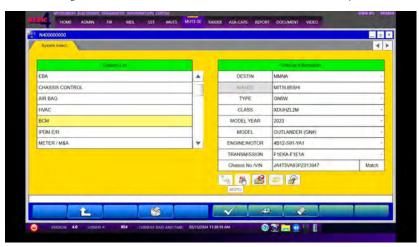
24. Verify the VIN/Chassis Number and press the OK button.



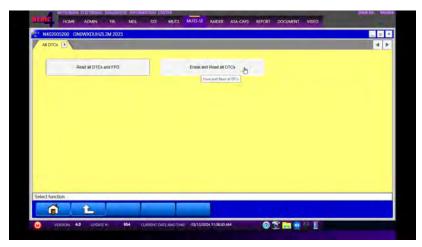
25. Automatic Configuration begins and a status bar will be displayed. Upon completion press the OK button.



26. Turn the ignition switch OFF for 10 seconds then press the All DTCs button.



27. Press the Erase and Read all DTCs button.



28. Select the systems, press the OK button. To start All DTCs press the OK button.

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\mathbf{V}	EBA	_	-	Model Year	2023		_	1	UBA	- 🥐 All DTC	28	5053	
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29. Review results and resolve any Active DTCs.

				-		
Select	System Litt	Results		Code	Designation matters code(s)	Status
~	ENGINE	ОК		C1F04-01	ACC command value failure	Active DTC
4	EPS/DAST3	ОК		C1F5F-08	Distance sensor	Active DTC
4	EBA	OK	1-1			
4	CHASSIS CONTROL	ОК				
1	AIR BAG	OK		N		
D.	HVAC	1		-		
1	BCM	ок				
1	IPDM E/R	OK.	-			
ick end	and DTC(s) was detected.			Number of D	TC(s) 2	

30. Refer to the Reprogramming Chart to confirm ECU information.

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Bern	Value	
ECU PART NUMBER	237P8W905P	A
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Ver.SEW23121-00		
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31. 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.

	AUTHORIZED MODIFICATIONS	These Modifications Have P on Approved as Appropriate by EPA and M of	AUTHORIZED
THE FOLL	OWING MODIFIC	CATIONS HAV B. EN M. JE:	MITSUBISHI
PART NUMBER 1860DXXX	VENDOF N//		P/N Vndr Code
TSB ENG TSB-20-13-XXX	G	A/T DEACER CODE DATE	TSB Dir C de
A/T Engine Compartment Lab		99332 06/25/20	Control Module Label

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

SOFTWARE INFORMATION

SOFTWARE REPROGRAMMING CHART

Model	Data No.	New HW Part No.	New SW Part No./Ver.	Target HW Part No.	Target SW Part No./Ver.	Remarks
Outlander PHEV	237P8W90.6PN	_	237P8W906P	237P0WW01P 237P0W009P	237P0WW01P 237P8W009P 237P8W902P	NAFTA With QC
Outlander PHEV	237P8W03.4PN	-	237P8W034P	237P0W013P 237P0W021P	237P8W009P 237P8W902P	NAFTA With QC
Outlander PHEV	237P8W90.7PN	-	237P8W907P	237P0W000P 237P0WW10P	237P0W000P 237P8W010P 237P8W903P	NAFTA Without QC
Outlander PHEV	237P8W03.5PN	-	237P8W034P	237P0W014P 237P0W022P	237P8W014P 237P8W022P	NAFTA Without QC

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	
	•Reprogram the PHEV-ECU	1	0.5H	
548516PD	 Update of BCM/USM 	L		