

SERVICE CAMPAIGN BULLETIN

SUBJECT:	No:
LANE KEEP ASSIST REPROGRAM FOR ADAS ECU	DA
- SERVICE CAMPAIGN	мо

No: SC-24-001 DATE: April 2024

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

PURPOSE

This bulletin provides instructions to reprogram the ADAS ECU software on 2022 Model Year Outlander.

BACKGROUND

The actual operation of Lane Keep Assist (LKA) mismatches LKA conditions described in owner's manual. LKA does not activate under 37 mph (60 km/h) when following another vehicle. Please reprogram the ADAS ECU.

AFFECTED VEHICLES

Certain 2022 Outlander

US VIN Cut-off: JA4J4VA87PZ004394 / August 31, 2022
 PUERTO RICO VIN Cut-off: JA4J4VA87PZ004394 / August 31, 2022

IMPORTANT

To maximize customer satisfaction with the quality of their vehicle, affected new or used inventory vehicles should be remedied before the vehicle is delivered. Dealers must check their inventory vehicles' VINs on the Warranty Superscreen to verify whether the vehicle is involved in this service campaign.

CUSTOMER NOTIFICATIONS

A letter will be sent to all owners of affected vehicles requesting they schedule an appointment with their local Mitsubishi dealer. A sample copy of the customer notification letter appears at the end of this bulletin.

REQUIRED OPERATIONS

Before starting this campaign procedure, CHECK THE WARRANTY SUPERSCREEN to verify if the vehicle is an affected VIN for this campaign and that this campaign procedure has not already been completed.

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REPAIR PROCEDURE

CAUTIONS

General

• Confirm if there are any scratches on exterior and interior of the vehicle before starting the procedure. In case there is a scratch, confirm with the customer before starting the procedure.

ECU reprogramming

- Be sure to connect with battery charger for back-up power source. During ECU reprogramming, the cooling fan works due to fail safe mode. The low voltage of the auxiliary battery may cause incompletion/failure of the reprogramming and if this happens, the ECU must be replaced with a brand new one.
- Confirm your MUT-III SE is updated with the latest reprogramming database.
- Write down all the customer's electrical device settings such as A/C and radio before reprogramming and restore them 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.
- Before using, make sure the USB cable and MUT-III SE main harness are not damaged.
- Connect the MUT-III to an AC power source to prevent internal battery discharge.
- Turn on flashers to prevent vehicle from shutting down/going to sleep.
- 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.
- Check and erase All DTCs after reprogramming.
- **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), VCI Lite and VCI 3
- MEDIC Laptop/Tablet with A/C power adapter
- MUT III Main Harness "A" (blue connector at the DLC end)
- USB 2.0 Cable
- MEDIC 3.5/4 update at **859** or higher
- For Standalone MUT III units, MUT-III SE Reprogramming Database SDBN N231101NR or higher

ECU REPROGRAMMING CHART

(For Software: ADAS-ECU)

Model	Data No.	New HW Part No.	New SW Part No./Ver.	Target HW Part No.	Target SW Part No./Ver.	Remarks
Outlandor		284E7WW00P	28/62/0700	284E7WW00P	284E7WW00P	
Outlander	204E7WU7.9PN	284E7W029P	204670079P	284E7W029P	284E7W029P	-

REPAIR PROCEDURE

SOFTWARE/MEDIC VERSION VERIFICATION PROCEDURE

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

NOTE: Reprogramming the ADAS ECU with the latest database (e.g., SDBN N231101NR 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 **859** or higher.

If your <u>MEDIC 3.5/4 update is at least</u> 859, continue with the Reprogramming Procedure. If your <u>MEDIC 3.5/4 update is below</u> 859, 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**.



- 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 icon.

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	💆 🖑 ST	rv)		
What's NEW		Topics		
 Mar. 2023 - Diagnostic database is updated. (To What's NEW for more details) 	-	 VCI type and vehicle mode (Dec. 2022 Update) In case that Systems(Optic 	el compatibility.	
- Dec. 2022 - Diagnostic database is updated		- In the use of V.C.I. - USB connection for V.C.I	Lite.	
? M.U.TIII Manual	Configur	ation	Exit	

b. Confirm the vehicle information displayed is complete/correct and press Reprogramming button.

System select					4
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ENGINE			DESTIN	MMNA	
TRANSMISSION			MAKER	MITSUBISHI	
SHIFT			TYPE	GM4W	
EPS/DAST3			CLASS	XTUCL2M	
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AIR BAG			MODEL	OUTLANDER (GM#)	Ŷ
HVAC			ENGINE/MOTOR	PR25DD (2.5, D4)	v
Load	ing Option Setup		TRANSMISSION	FK25 (CVT)	4
METER / M8A	(Not selected)	× *	Chassis No./VIN	JA4J3VA85NZ081331	Match
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c. Select "SDB Data List" button.

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	ECU Reprogramming(SDB)		SDB Data List	ECU Reprogramming K-Line	
	Data Selection:K-Line		Data List K-Line		

d. Confirm that the database number displayed (upper right) is SDBN N231101NR or higher.

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	1862D229 .mff	85379480 1860D859	1860D85901	1860D859	1860D85900	23 OUTLANDER SPORT/RVR/ ASX NAS/ISRAEL 4B11 D4 CVT EGR Monitor MIL(P04	cc	20230704	CL201904020 011	
	1862D228 .mff	1860D779	1860D77901	1860D779	1860D77900	22 OUTLANDER SPORT/RVR/ ASX NAS/ISRAEL 4B11 D4 CVT EGR Monitor MIL(P04	CC	20230704	CL201904020 011	
	1862D227	1860D744	1860D74401	1860D744	1860D74400	21 OUTLANDER SPORT/RVR/ ASX NAS 4B11 D4 CVT E	CC	20230704	CL201904020 011	
	1862D226	1860D472	1860D47201	1860D472	1860D47200	20 OUTLANDER SPORT/RVR/ ASX NAS 4B11 D4 CVT E	CC	20230704	CL201904020 011	
	1862D225	1860D309	1860D30901	1860D309	1860D30900	19 OUTLANDER SPORT/RVR/ ASX NAS/ISRAEL 4B11 D4	CC -	20230614	CL201904020 011	
	8637D126	8637C159	8637C15901	8637C159	8637C15900	ASX/Outlander Sport To correct initialization processin	CC	20221103	CL202006020 003	
	8637D124	8637B906	8637890601	8637B906	8637890600	Eclipse Cross/Outlander/ Outlander PHEV To correct	cc	20221103	CL202006020 003	
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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.



- **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.



5. Press the model information display button (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"). Select the correct class from the Loading Option Setup drop-down list.

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		414						PART NO: 74308433

- 6. Verify that the ECU has not already been updated with the latest S/W number.
 - a. Select appropriate "Meter / M&A" from Loading Option Setup drop-down..



b. Select "ICC/ADAS 2" and press the programming icon button.

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System select		-	_		4
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MULTIAN			TYPE	GM#W	
IVC			CLASS	XTUGL2M	
Wireless charger			WODEL YEAR	2022	4
ICG/ADAS 2			MODEL	OUTLANDER (CM#)	
LASER/BADAR			ENGINE/MOTOR	PR25DD (2.5, D4)	
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c. Log into AS2.



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METER / M&A	12	3 inch	Chassis No.VIN	JA4J3VA35N2081331	Match
			- # 23	20 A	
					-

d. Press the "Special Function" button.



e. Select the "ECU Information" button.

System select CC/ADAS 2 Special Func	lion 🔳		4
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Steering torque calibration	Setting change	Chassis No./VIN Information	
1			
Chassis No./VIN Registration			
Chassis No./VIN Registration			
Chassis No.VNN Registration			
Chassis No.VYN Registration			

f. The current ECU Part Number will be displayed. If the ECU is at the latest level, reprogramming **is not** necessary.

	Date	
sam	When	
ECU PART NUMBER	284C7W029P	4
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7. If reprogramming is necessary, proceed with the following steps. Return to the "System Select" tab and press the "ECU reprogramming" button.

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System select					4
	Systemust			Vehicle (Mormalion	
AUDIO AMP			DESTIN	MMNA	
E-HUD			MAKER	MITSUBISHI	-
MULTI AV			TYPE	GM4W	
IVC			CLASS	XTUGL2M	÷
Wireless charger			MODEL YEAR	2022	
ICC/ADAS 2			MODEL	OUTLANDER (GM#)	
LASER/RADAR		-	ENGINE/MOTOR	PR25DD (2.5, D4)	*
Load	ing Option Setup		TRANSMISSION	FK25 (CVT)	
METER / M&A	12.3 inch	× (*)	Chassis No./VIN	JA4J3VA85NZ081331	Match
		-	ALL A	se 🔗	
			ECU reprogramming		
1.0		_			-
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a. Select the "ECU Reprogramming(SDB)" button.

ECU Repro	SDB Data List	ECU Reprogramming:K-Line
ning(SD8)		
Data Selection:K-Line	Data List K-Line	
	negs20) Data Selection:r.c.une	nagoto) Data Selection/CLine Data ListificLine

b. Select appropriate "Meter / M&A" and select the OK button.

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ECU Repregramming(ROB)	-				4 1	Coonexoudrainig(abb)					
System List			Value internation				System Last			versue one-mality	
AUTO DRIVE POS		TYPE	GM4W			AUTO DRIVE POS.			TYPE	CUMMA	
AUDIO AMP		CLASS	XTUCL2M			AUDIO AMP.			CLASS	XTUCL2M	
E HUD		MODEL YEAR	2022			E HUD			MODEL YEAR	2022	
MULTI 8Y		MODEL	OUTLANDER (GM#)			MULTI AV	MULTI AV		MODEL	CUTLANDER (GMW)	
IVC		Chassis No./VIN	JA4J3VA86NZ081331	Ne	ICH ·	NC		-	Chassis No./V/N	JAAJ3VA85NZ081331	5
Wireless charger						Wireless charger					
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METER / M&A (Not selected)								1			
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r:SEW23061-02						Ver.SEW25051.02		_	_		_
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c. Select a modernization type - "Reprogramming (ECU software rewriting)" button and select the OK button.

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ECU Reprogrammin	g(SDB) x		4 >
	Select modernization type		
	Reprogramming (ECU software rewnling)		
	Programming (program writing to new ECU)		
	Plance refert a madvastation tune		
	If reprogramming cannot find the target file after a failed update, select programming.		
Ver.SEW23061-02		_	_

d. Select the reprogramming data and press the OK button.

ECU Rep	rogramming(SD	0) ×								4
selection	Data No.	New HW Part	New SW Part	Current HW	Current SW Part No Wer	Contents	Classification	Date	Reference	
¥	284E7W07 .9PN	284E7W029P	284E7W079P	284E7W029P	284E7W029F	22 OUTLANDER GM4W W AD1 Countermeasure for LKA function.	CC/SC	20231212		A
4										Ŧ
Select th	e reprogramn	ning data and pr	ess the OK bu	tton.						Ŧ
Select th	e reprogramn	ling data and pr	ress the OK bu	tton.						-

e. Confirm data displayed and confirm reprogramming ECU by selecting the OK button.

selection	Data No	New HW Part No	New SW Part No. Wer	Current HW Part No.	Current SW Part No /Ver	Contents	Classification	Date	Reference
	284E7W07 .9PN	284E7W029P	284E7W079P	284E7W029F	284E7W029P22	OUTLANDER GM4W W	CC/SC	20231212	
				_					
Select th	e reprogramm	ning data and p	ess the OK bu	tton 式	X		-		

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

f. Once the reprogramming is initiated the screen (shown below) will indicate the reprogramming progress. It may take up to 15 minutes to complete.





g. Verify that the software version has been updated to the new data number.

ECU Reprogra	mming(SDB)	*	-	-	-			-	
System	Data No.	New HW Part	New SW Part No Wei	Previous HW Part No	Previous SW Part No /Ver	Contents	Classification	Date	Reference
ICC/ADAS 2	284E7W07	284E7W02	284E7W07	284E7W02	-			1	
Confirm the r Press the ALI	esults of repro	gramming and on the Syster	d press OK bu n Select scree	tion n to check DT	Cs				
Confirm the r Press the ALI	esults of repro L DTCs button	gramming and on the Syster	d press OK bu n Select scree	tton. n to check DT	Cs.				

Model	Data No.	New HW Part No.	New SW Part No./Ver.	Target HW Part No.	Target SW Part No./Ver.	Remarks
Outlander		284E7WW00P	28/F7W079P	284E7WW00P	284E7WW00P	_
outlander	20427007.9FN	284E7W029P	2042700795	284E7W029P	284E7W029P	

- **8.** After updating the ADAS-ECU, turn IG-OFF for 10 seconds and then clear the DTCs in all ECUs and make sure there are no DTCs remaining.
 - a. Return to the System Select screen. Press "ALL DTC" button to initiate the "Erase and Read all DTCs". IMPORTANT: The "Erase and Read all DTCs" must be performed since DTCs may be generated and stored.



b. Press OK to initiate erasing all DTCs. When completed, a confirmation message will be displayed. Click the OK Button.

	Sector Log						
Select	System Name	Results					
1	ENGINE		4		Venical Information		
1	TRANSMISSION			Model Name	OUTLANDER (GM#)		-
1	SHIFT			Model Year	2022		
-	EPS / DAST 3			Model Code	GM4WXTUCL2M		
1	CHASSIS CONTROL		1				_
1	AIR BAG						
	HNAC						
1	BCM		-				
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PARTS INFORMATION

No parts required for ADAS ECU reprogramming.

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
Outlandor		284E7WW00P	28/62/0700	284E7WW00P	284E7WW00P	
Outlander	204E7 WU7.9PN	284E7W029P	2046700799	284E7W029P	284E7W029P	-

WARRANTY

Labor Op Code	Operation	Work Time	Remarks
C2402C01	ADAS ECU program update	0.3H	-
C2402C02	Miscellaneous cost	0.1H	-



MITSUBISHI MOTORS NORTH AMERICA, INC.

PO Box 689040 Franklin, TN 37068

Date: April 2024

This notice applies to your vehicle, [VIN].

Subject: Service Campaign SC-24-001

Name and Address

Dear [NAME],

Mitsubishi Motors strives to build vehicles with the highest level of quality and to continuously improve that quality with every vehicle built. To help assure your continued satisfaction with your Mitsubishi vehicle, we are recommending that the following product improvement be performed on certain 2022 Outlander vehicles.

Recommended Product Improvement:

The actual operation of Lane Keep Assist (LKA) mismatches the LKA conditions described in owner's manual. LKA does not activate under 37 mph (60 km/h) when following another vehicle. A software update will correct this situation.

What your dealer will do:

Your local Mitsubishi Motors dealer will reprogram the ADAS (Advanced Driver Assistance Systems) Electronic Control Unit (ECU) with modified software. The time needed for the reprogramming is approximately 30 minutes. The dealer may need your vehicle for a longer period of time, but every effort will be made to minimize your inconvenience.

What you should do:

Please contact your local Mitsubishi Motors dealer and schedule an appointment to have the ADAS ECU reprogrammed free of charge. When you bring your vehicle in, please show the dealer this letter. If you misplace this letter, the dealer will still perform this repair on your vehicle, free of charge.

If you experience any problem obtaining this product improvement promptly and/or at no charge, please inform us by calling the Mitsubishi Customer Relations Department at **888-648-7820**. Hours: Monday through Friday 7 a.m. to 4 p.m. (Central Time)

If you previously had your vehicle reprogrammed as a result of this specific condition and have paid for the repair, you may send your original repair order or invoice, **and** original receipt/proof of payment to the following address for reimbursement consideration:

Mitsubishi Motors North America Inc., Customer Relations, P.O. Box 689040, Franklin, TN 37068

We appreciate your prompt attention to this matter.

Sincerely,

Mitsubishi Motors North America, Inc.