



Technical Service Bulletin

SUBJECT:			No: TSB-23-13-002
DESCRIPTION CORRECTION FOR ECM REPLACEMENT PROCEDURE – SERVICE MANUAL REVISION			DATE: April 2023
			MODEL: 2022-23 Outlander
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input type="checkbox"/> SALES MANAGER

PURPOSE

This TSB provides corrections to the descriptions in the applicable service manuals.

AFFECTED VEHICLES

- 2022-2023 Outlander

AFFECTED SERVICE MANUAL

- 2022 Outlander Service Manual, Group 13, Engine
- 2023 Outlander Service Manual, Group 13, Engine

PROCEDURE

Please use the chart below as a guide to replace the indicated pages of the affected Service Manual, Group 13, Engine, Engine Control System.

Applicable Manual	Pub. No.	Applicable Title	Contents
2022 OUTLANDER Service Manual	MSCD-330B-2022 (Volume 2)	ENGINE L ENGINE CONTROL SYSTEM L PR25DD L BASIC INSPECTION L ADDITIONAL SERVICE WHEN REPLACING ECM L Work Procedure	Attached Sheet 2
2023 OUTLANDER Service Manual	MSCD-330B-2023	ENGINE L ENGINE CONTROL SYSTEM L PR25DD L REMOVAL AND INSTALLATION L ECM L ECM : Removal & Installation	Attached Sheet 3



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ADDITIONAL SERVICE WHEN REPLACING ECM

Description

When replacing ECM, the following procedure must be performed. (For details, refer to [ADDITIONAL SERVICE WHEN REPLACING ECM.](#))

CAUTION:

When replacing the ECM, always replace it with a new one. The functions controlled by the ECM does not operate properly in case of reuse of the ECM from another vehicle.

PROGRAMMING OPERATION

CAUTION:

When replacing the ECM, a new ECM must be used. The functions controlled by the ECM do not operate properly if a ECM from another vehicle is used.



NOTE:

After replacing with a blank ECM, programming is required to write ECM information. Be sure to follow the procedure to perform the programming.

Work Procedure

Before Replacing ECM

19. SAVE ECM DATA



With M.U.T.-III SE

1. Turn ignition switch OFF.
2. Reconnect all harness connectors disconnected.
3. Turn ignition switch ON.
4. Select "SAVING DATA FOR REPLC CPU" in "WORK SUPPORT" mode of "ENGINE" using M.U.T.-III SE.
5. Follow the instruction of M.U.T.-III SE display.



NOTE:

- Necessary data in ECM is copied and saved to M.U.T.-III SE.
- Go to Step 2 regardless of with or without success in saving data.

With remote engine start function >>

GO TO 2

Without remote engine start function >>

- Replace ECM.
- After replacing ECM, perform necessary work. **REPLACE** <Correct>

<Incorrect> **20. REMOVE ECM** <Correct>
 <Incorrect> **Replace** <Correct>
 <Incorrect> **Remove** ECM. Refer to [ECM.](#)

CAUTION:
 After removing ECM, do not install new ECM, but change PCM at first.

>>
 GO TO 3

<Incorrect>

>>
 After replacing ECM, perform necessary work.

<Correct>

21. REPLACE BCM

<Deleted>

Replace BCM. Refer to [BCM](#).

>>

GO TO 4

.

22. INSTALL ECMInstall ECM. Refer to [ECM](#).

>>

After replacing ECM, perform necessary work.

After Replacing ECM**23. PERFORM ECM PROGRAMMING**

With M.U.T.-III SE

Perform ECM programming according to the procedure of "Programming" in M.U.T.-III SE Operation Manual. Refer to M.U.T.-III SE Operation Manual.

CAUTION:

During programming, maintain the following conditions:

- Ignition switch: ON
- Electric load: OFF
- Brake pedal: Not depressed
- Battery voltage: 12 – 13.5 V (Check the value displayed on the M.U.T.-III SE screen.)

With remote engine start function >>

GO TO 2

.

Without remote engine start function >>

GO TO 3

.

24. PERFORM IGNITION SWITCH OPERATION

1. Turn ignition switch OFF.
2. Turn ignition switch ON.

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GO TO 3

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25. PERFORM INITIALIZATION OF NATS SYSTEM AND REGISTRATION OF ALL NATS IGNITION KEY IDSRefer to [ADDITIONAL SERVICE WHEN REPLACING ECM](#).

>>

GO TO 4

.

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ENGINE CONTROL SYSTEM

32. PERFORM IDLE AIR VOLUME LEARNING

Refer to [IDLE AIR VOLUME LEARNING](#).

>>

[GO TO 11](#)

33. PERFORM EGR VOLUME CONTROL VALVE CLOSED POSITION LEARNING

Refer to [EGR VOLUME CONTROL VALVE CLOSED POSITION LEARNING](#).

>>

[GO TO 12](#)

34. CHECK DTC

1. Turn ignition switch OFF and wait for 10 seconds or more.
2. Turn ignition switch ON.
3. If DTC is displayed, perform diagnosis of detected DTC. Refer to [ECM](#).

With remote engine start function >>

[GO TO 13](#)

Without remote engine start function >>

END

35. WRITING MAC KEY FOR BCM

Refer to [MAC KEY WRITING](#).

>>

END

<Deleted>

ACCELERATOR PEDAL RELEASED POSITION LEARNING**Description**

Accelerator Pedal Released Position Learning is a function of ECM to learn the fully released position of the accelerator pedal by monitoring the accelerator pedal position sensor output signal. It must be performed each time harness connector of accelerator pedal position sensor or ECM is disconnected. (For details, refer to [ACCELERATOR PEDAL RELEASED POSITION LEARNING](#).)

Work Procedure**1. START**

1. Make sure that accelerator pedal is fully released.
2. Turn ignition switch ON and wait at least 2 seconds.
3. Turn ignition switch OFF and wait at least 10 seconds.
4. Turn ignition switch ON and wait at least 2 seconds.
5. Turn ignition switch OFF and wait at least 10 seconds.

>>

END

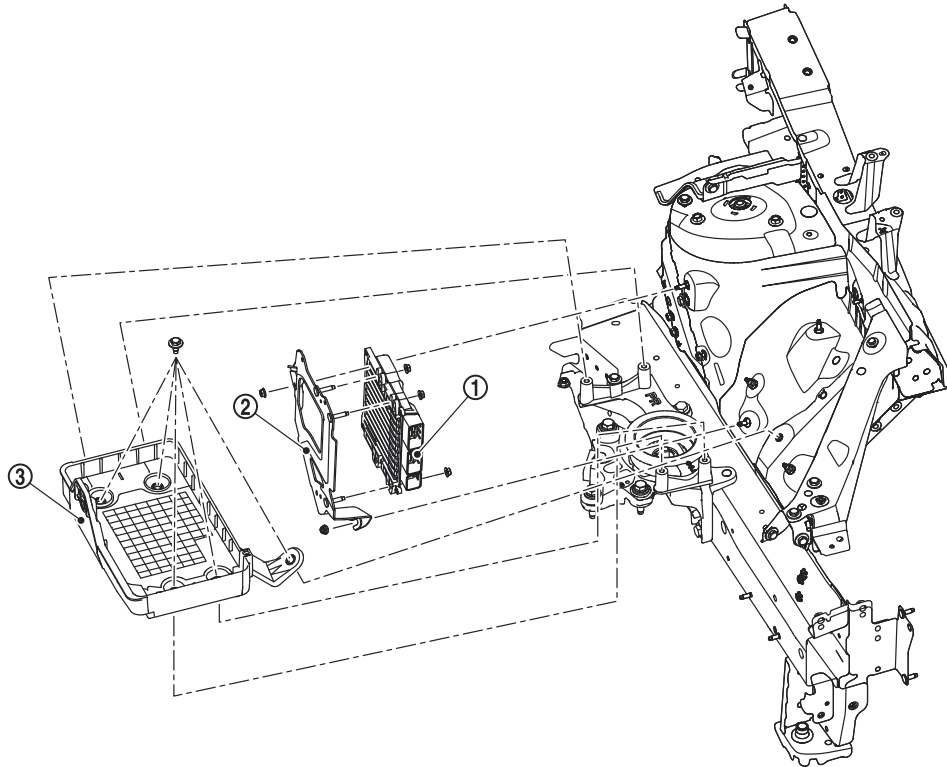
ENGINE CONTROL SYSTEM

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REMOVAL AND INSTALLATION

ECM

ECM : Exploded View



CF100A04AA00USA

1. ECM	2. Bracket	3. Battery tray 2
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ECM : Removal & Installation

CAUTION:

- Perform **ADDITIONAL SERVICE WHEN REPLACING ECM**. Refer to [ADDITIONAL SERVICE WHEN REPLACING ECM](#).
- When replacing the ECM, a new ECM must be used. The functions controlled by the ECM do not operate properly if an ECM from another vehicle is used.
- Perform "ELECTRIC INTAKE VALVE TIMING CONTROL LEARNING". Refer to [ELECTRIC IVT CONTROL ACTUATOR POSITION LEARNING](#).
- ~~After removing ECM, do not install new ECM, but change BCM at first. (With remote engine start function only)~~ <Deleted>

REMOVAL

- 1.Remove the air cleaner cover. Refer to [AIR CLEANER AND AIR DUCT](#).
- 2.Remove the battery. Refer to [BATTERY](#).
- 3.Disconnect the harness connectors from the ECM. Refer to [COMPONENT PARTS](#)(lever locking type).
- 4.Remove the battery tray. Refer to [BATTERY TRAY](#).
- 5.Remove the ECM and bracket assembly.
- 6.Remove the nuts and ECM from the bracket.

INSTALLATION

Installation is in the reverse order of removal.