* * TECHNICAL INFORMATION NOTICE * *

DATE: December 9, 2021
TO: Mitsubishi Motors US & Puerto Rico Dealer Service and Parts Managers
RE: Programming Procedures for ECU
TIN NO.   TIN-21-00-008

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AFFECTED VEHICLES: 2022 Outlander

PURPOSE:

MMNA would like to share additional information related to the programming procedure when replacing any ECU on the new 2022 Outlander. Please follow the instructions included in this document along with additional support from the service manual to successfully program these modules. If there are additional questions, please contact Tech Line @ 800-446-6064.

In preparation for programming any ECU first go to the MDL → Service → Service Tech Resources →22 Outlander Programming Reference Table and choose the correct file for the ECU and model application you need.

PROGRAMMING FILE REFERENCE TABLE

OUTLANDER(GM#)
ENGINE

Model Year	Vehicle Spec	Programming File Name to Write	Part Number After Programming	Part Number Before Programming
22 or later	PR25 2WD ACC(Adaptive Cruise Control System)	237614PN.0DN	237614PN0D	0000000000
22 or later	PR25 2WD AD1(MI-PILOT Assist)	237614PN.1DN	237614PN1D	0000000000
22 or later	PR25 4WD ACC(Adaptive Cruise Control System)	237614PN.2DN	237614PN2D	0000000000
22 or later	PR25 4WD AD1(MI-PILOT Assist)	237614PN.3DN	237614PN3D	0000000000

Next, refer to the following pages **prior** to programming.

Technical Highlight 2022MY All New Outlander

Purpose

The following pages contain programming steps for the **Blank ECU** in the 2022 Outlander after a replacement. Read and understand the following steps prior to programming.

Contents

- **Auto ECU Programming** steps
  - ECU programming
  - Automatic configuration
  - VIN registration
  - MAC key writing

When programming an ECM (Engine Control Module) **if the necessary programming files do not automatically populate, please contact Tech-Line @ 800-446-6046.**

TECHNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER

CONTENTS

1. REPLACE ECU

   A) ADDITIONAL SERVICE WHEN REPLACING AN ECU

   B) ECU PROGRAMMING

   C) AUTOMATIC CONFIGURATION

   D) VIN REGISTRATION

   E) MAC KEY WRITING

   Note: when programming an ECM (Engine Control Module) if the necessary programming files do not automatically populate, please contact Tech-Line @ 800-446-6046

CONTENTS

1. REPLACE ECU

    A) ADDITIONAL SERVICE WHEN REPLACE ECU

    B) ECU REPROGRAMMING

    C) AUTOMATIC CONFIGURATION

    D) VIN REGISTRATION

    E) MAC KEY WRITING

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1. REPLACE ECU

A) ADDITIONAL SERVICE WHEN REPLACE ECU

1 : ECU PROGRAMMING
2 : AUTOMATIC CONFIGURATION
3 : VIN REGISTRATION
4 : MAC KEY WRITING

Always perform the additional service after replacing the unit below.

Category	Replacing unit	MUT III program				
		1	2	3	4	Additional
ENGINE	ECM	X		X	X	➢ ACCELERATOR PEDAL RELEASED POSITION LEARNING ➢ THROTTLE VALVE CLOSED POSITION LEARNING ➢ IDLE AIR VOLUME LEARNING ➢ EGR VOLUME CONTROL VALVE CLOSED POSITION LEARNING
TRANSMISSION	TCM	X			X	➢ G-SENSOR CALIBRATION ➢ CLUTCH POINT LEARNING ➢ DRIVE/REVERSE LEARNING
TRANSFER	AWD CONTROL UNIT	X				➢ AIR BLEEDING ➢ INITIALIZE OIL DETERIORATION LEVEL
ELECTRICAL & POWER CONTROL	WIRELESS CHARGER UNIT			X		
	IPDM E/R		X			
	BCM		X	X	X	TIRE PRESSURE SENSOR ID REGISTRATION
	8CH CAN GATEWAY	X				

1. REPLACE ECU

A) ADDITIONAL SERVICE WHEN REPLACE ECU

Always perform the additional service after replacing the unit below.

Category	Replacing unit	MUT III program				
		1	2	3	4	additional
BRAKES	ABS CONTROL UNIT	X	X			
STEERING	STEERING CONTROL UNIT	X	X			ADJUST THE NEUTRAL POSITION OF STEERING ANGLE SENSOR
HEATER & A/C	A/C AMP		X			
DOOR & LOCK	INTELLIGENT KEY UNIT		X			
	AUTOMATIC BACK DOOR CONTROL UNIT					INITIAL SETTING
	POWER WINDOW MOTOR					SYSTEM INITIALIZATION
RESTRAINTS	AIR BAG DIAGNOSIS SENSOR UNIT		X			
	~~OCCUPANT DETECTION SYSTEM CONTROL UNIT~~					~~ZERO POINT RESET~~
	PASSENGER SEAT					ZERO POINT RESET

1. REPLACE ECU

A) ADDITIONAL SERVICE WHEN REPLACE ECU

Always perform the additional service after replacing the unit below.

Category	Replacing unit	MUT III program				
		1	2	3	4	additional
DRIVER INFORMATION & MULTIMEDIA	COMBINATION METER		X			ACTUAL DRIVING 1 KM OR MORE
	HEAD UP DISPLAY UNIT					➢ CALIBRATION ➢ ADJUST DISPLAY SCREEN
	AV CONTROL UNIT	X	X	X		
	AROUND VIEW MONITOR CONTROL UNIT		X		X	WRITE CALIBRATION DATA
	TCU		X	X		➢ TCU ACTIVATION ➢ CHECK NETWORK INITIAL SETTINGS
CRUISE CONTROL & DRIVER ASSISTANCE	ADAS CONTROL UNIT 2		X		X	STEERING TORQUE CALIBRATION
	SONAR CONTROL UNIT		X		X	
	DISTANCE SENSOR		X			RADAR ALIGNMENT
	SIDE RADER		X			SIDE RADAR ALIGNMENT
	FRONT CAMERA UNIT		X			CAMERA AIMING ADJUSTMENT
	CHASSIS CONTROL MODULE	X	X		X	

CONTENTS

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1. REPLACE ECU

B) ECU PROGRAMMING

When replacing the following ECUs, you need to conduct ECU PROGRAMMING first

- ECM
- TCM
- AWD CONTROL UNIT
- 8CH CAN GATEWAY
- ABS CONTROL UNIT
- STEERING CONTROL UNIT
- AV CONTROL UNIT
- CHASSIS CONTROL MODULE

Whenever programming an ECU make sure to have a battery charger on the vehicle battery

1. REPLACE ECU

B) ECU PROGRAMMING

- ➢ After entering MUT3SE System Select screen go to Automatic Reprogramming
- ➢ From the ECU Reprogramming folder choose ECU Reprogramming (SDB)

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1. REPLACE ECU

B) ECU PROGRAMMING

1. REPLACE ECU

B) ECU PROGRAMMING

1. REPLACE ECU

B) ECU PROGRAMMING

CONTENTS

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1. REPLACE ECU

C) AUTOMATIC CONFIGURATION

When replacing following ECUs, you will need to conduct "AUTOMATIC CONFIGURATION".

- IPDM E/R
- BCM
- ABS CONTROL UNIT
- STEERING CONTROL UNIT
- A/C AMP
- INTELLIGENT KEY UNIT
- AIR BAG DIAGNOSIS SENSOR UNIT
- COMBINATION METER
- AV CONTROL UNIT
- AROUND VIEW MONITOR CONTROL UNIT
- TCU
- ADAS CONTROL UNIT 2
- SONAR CONTROL UNIT
- DISTANCE SENSOR
- SIDE RADER
- FRONT CAMERA UNIT
- CHASSIS CONTROL MODULE
- Adaptive LED Headlight (ALH)

1. REPLACE ECU

C)   AUTOMATIC CONFIGURATION
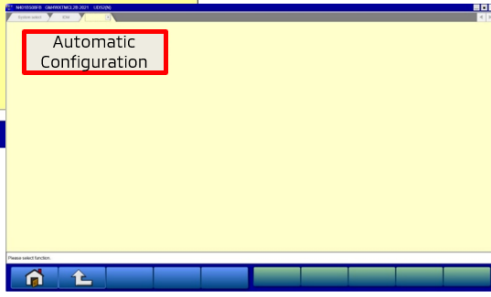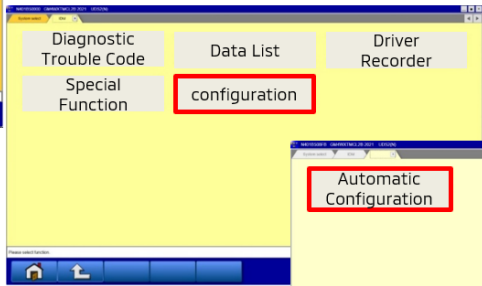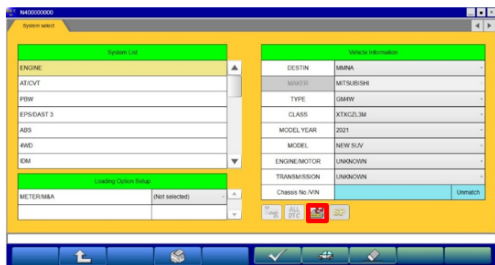
➢ Chose the correct system you wish to configure from the System Select screen
➢ Choose the Configuration tab
➢ Choose Automatic Configuration

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1. REPLACE ECU

C)   AUTOMATIC CONFIGURATION
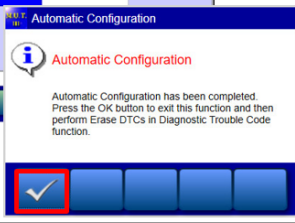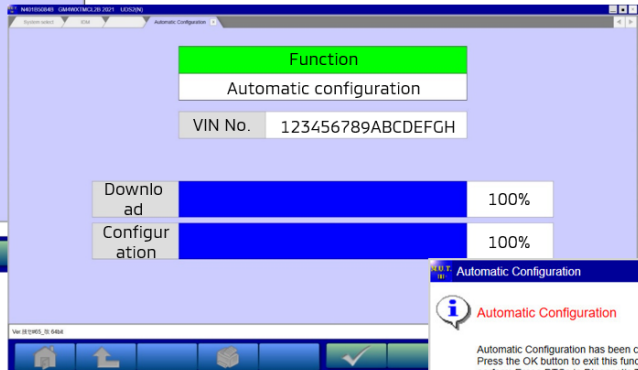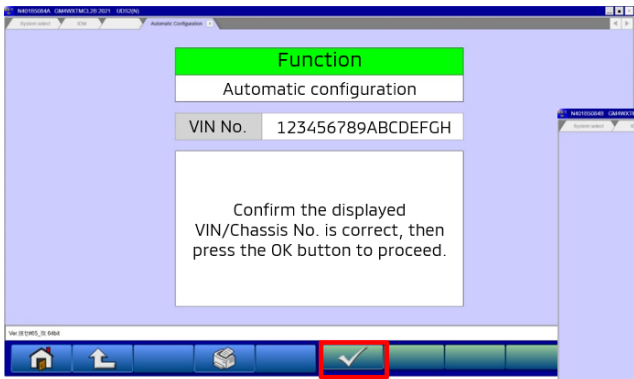
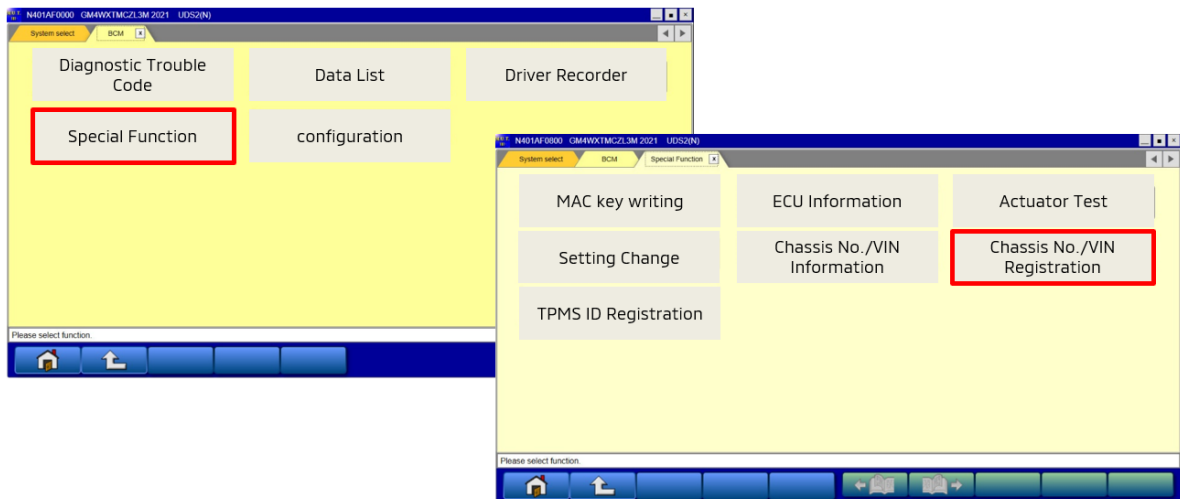*Confirm VIN# is correct*

CONTENTS

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1. REPLACE ECU

D) VIN REGISTRATION

When replacing following ECU, you will need to conduct "VIN REGISTRATION".

- ➢ ECM
- ➢ WIRELESS CHARGER UNIT
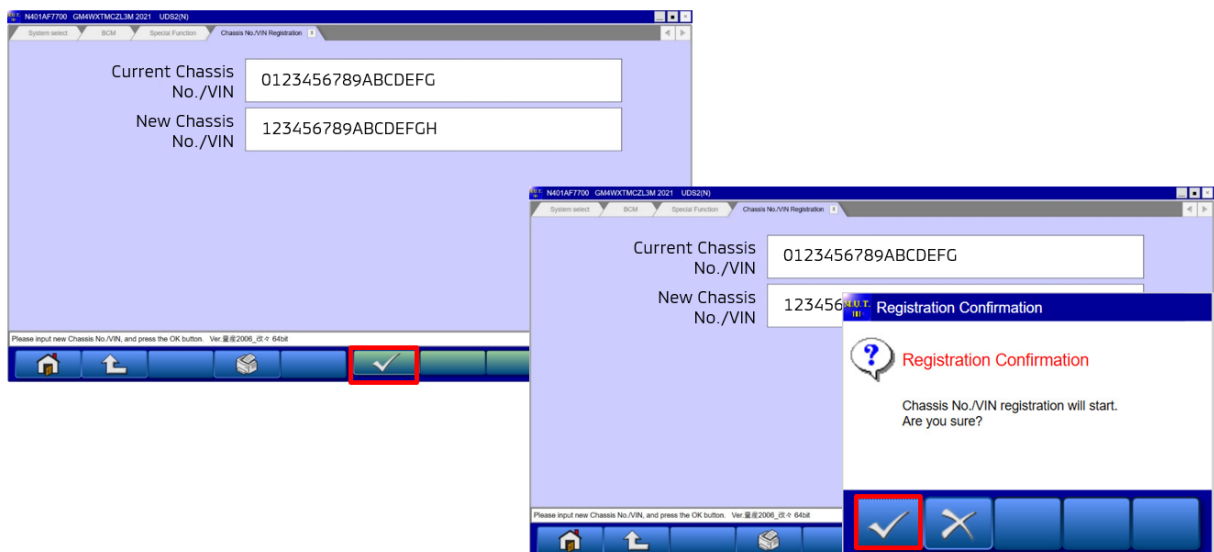- ➢ BCM
- ➢ AV CONTROL UNIT
- ➢ TCU

1. REPLACE ECU

D) VIN REGISTRATION

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1. REPLACE ECU

D) VIN REGISTRATION

1. REPLACE ECU

D) VIN REGISTRATION

TECHNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER

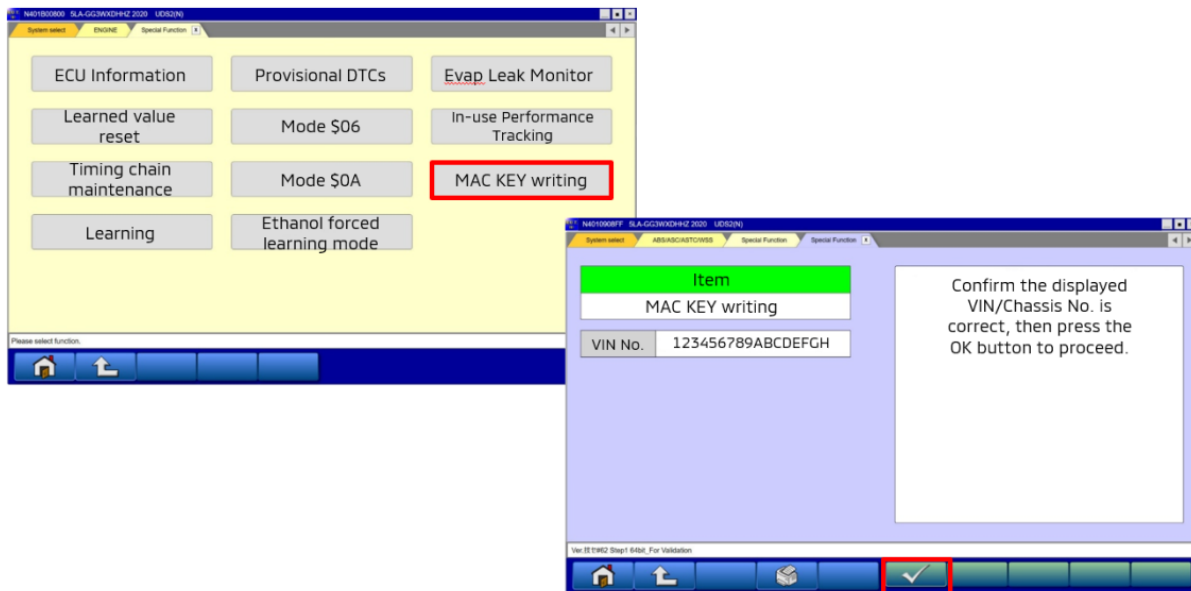## CONTENTS

1. REPLACE ECU

E) MAC KEY WRITING

When replacing following ECU, you will need to conduct "MAC KEY WRITING".

> ➢ ECM
>
> ➢ TCM
>
> ➢ BCM
>
> ➢ AROUND VIEW MONITOR CONTROL UNIT
>
> ➢ ADAS CONTROL UNIT 2
>
> ➢ SONAR CONTROL UNIT
>
> ➢ CHASSIS CONTROL MODULE

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1. REPLACE ECU

E) MAC KEY WRITING

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E)   MAC KEY WRITING