*** * 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

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 \rightarrow Service \rightarrow Service Tech Resources \rightarrow 22 Outlander Programming Reference Table and choose the correct file for the ECU and model application you need.

PROG	RAMM	IING FILE REFERENCE TABLE			
<u>OUTLANI</u> ENGI		<u>1#)</u>			
Model	Year	Vehicle Spec			Part Number Before Programming
22 or	later	PR25 2WD ACC(Adaptive Cruise Control System)			0000000000
22 or	later	PR25 2WD AD1(MI-PILOT Assist)	237614PN.1DN	237614PN1D	000000000
22 or	later	PR25 4WD ACC(Adaptive Cruise Control System)	237614PN.2DN	237614PN2D	000000000
22 or	later	PR25 4WD AD1(MI-PILOT Assist)	237614PN.3DN	237614PN3D	000000000

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

TECHNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER

CONTENTS

- 1. REPLACE ECU
 - A) ADDITIONAL SERVICE WHEN REPLACE ECU
 - B) ECU REPROGRAMMING
 - C) AUTOMATIC CONFIGURATION
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 - E) MAC KEY WRITING

1. REPLACE ECU



Always perform the additional service after replacing the unit below.

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Catagory	Replacing unit		MUT III program							
Category			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	тсм	x			x	 G-SENSOR CALIBRATION CLUTCH POINT LEARNING DRIVE/REVERSE LEARNING 				
TRANSFER	AWD CONTROL UNIT	x				 > AIR BLEEDING > INITIALIZE OIL DETERIORATION LEVEL 				
ELECTRICAL &	WIRELESS CHARGER UNIT			X						
POWER CONTROL	IPDM E/R		X							
	ВСМ		X	X	Х	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.

Catalana	Replacing unit		MUT III program								
Category			2	3	4	additional					
BRAKES	ABS CONTROL UNIT	X	Х								
STEERING	STEERING CONTROL UNIT	x	x			ADJUST THE NEUTRAL POSITION OF STEERING ANGLE SENSOR					
HEATER & A/C	A/C AMP		х								
DOOR & LOCK	INTELLIGENT KEY UNIT		х								
	AUTOMATIC BACK DOOR CONTROL UNIT					INITIAL SETTING					
	POWER WINDOW MOTOR					SYSTEM INITIALIZATION					
RESTRAINTS	AIR BAG DIAGNOSIS SENSOR UNIT		х								
	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.

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

1 : ECU PROGRAMMING

2 : AUTOMATIC CONFIGURATION

3 : VIN REGISTRATION



1 : ECU PROGRAMMING 2 : AUTOMATIC CONFIGURATION **3** : VIN REGISTRATION

4 : MAC KEY WRITING

TECHNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER DECUNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER CONTENTS 1. REPLACE ECU 2. CALIBRATION A) ADDITIONAL SERVICE WHEN REPLACE ECU A) DISTANCE SENSOR ALIGNMENT B) ECU PROGRAMMING B) CAMERA AIMING ADJUSTMENT C) AUTOMATIC CONFIGURATION C) MULTI AROUND MONITOR CALIBRATION D) VIN REGISTRATION HAC KEY WRITING

1. REPLACE ECU

B) ECU PROGRAMMING

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

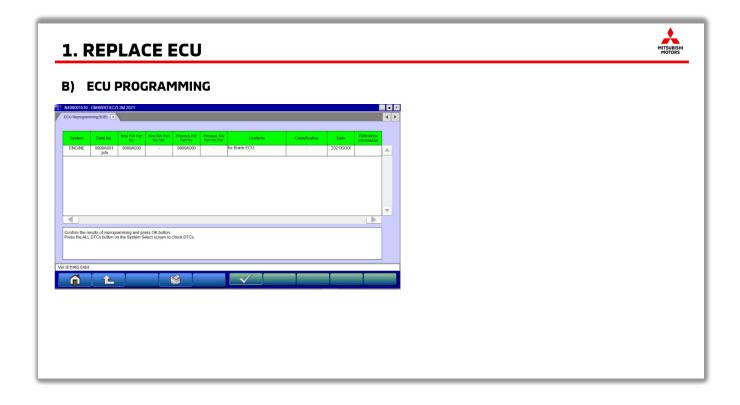
- ≻ ECM
- ≻ TCM
- ➤ AWD CONTROL UNIT
- ➢ 8CH CAN GATEWAY
- ➢ ABS CONTROL UNIT
- ➢ STEERING CONTROL UNIT
- ➢ AV CONTROL UNIT
- ➤ CHASSIS CONTROL MODULE

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

1. REPLACE ECU						MITSUBSHI
	G			× • •		
System List			Vehicle Information			
ENGINE		DESTIN	MMNA	-		
ATJCVT		MAKER	MITSUBISHI			
BW		TYPE	GM4W			
PS/DAST 3	_	CLASS	XTXCZL3M			
.BS WD	_	MODEL YEAR	2021 NEW SUV			
DM		MODEL ENGINE/MOTOR		ECU Reprogramming		
Leading Option Skitup METER/M&A (Not selected)	* A	TRANSMISSION Chassis No /VIN	UNKNOWN	ECU Reprogramming(SDB)	SDB Data List	ECM Reprogramming: K-line
 After entering MUT screen go to Autom From the ECU Reproduction 	natic ograi	Reprogr mming fo	elect amming older	Data Selection: K-line	Data List: K-line	
choose ECU Reprog	ram	ming (SD	В)	Ver.技艺#65 64bit		

1. REPLACE ECU														MITSUE
B) ECU PROGRAMMIN	G													
N410001501 GM4WXTXCZL3M 2021						_ • ×	į							
ECU Reprogramming(SDB)						4 Þ								
System List			Vehicle Infor	mation										
ENGINE		TYPE	GM4W											
AT/CVT		CLASS	XTXCZL3M											
PBW		MODEL YEAR	2021											
EPS/DAST 3		MODEL	NEW SUV											
ABS		Chassis No./VIN		N406001504	GM4WXTXCZ	L3M 2021								. • ×
4WD				ECU Reprogram	iming(SDB) 🗴									< ►
IDM	•	Automatic search the repro	gramming data.					New UN Dert	New SW Part	Current HW	Current SW			
Loading Option Setup		Check the vehicle informat Press the return one level t		ENGINE	Search result Necessary		Data No. 9999A001	No. 9999A001	No./Ver.	Part No. 9999A000	Part No./Ver	Contents for Brank ECU.	Classification	
METER/M&A (Not selected)	~ 🔺			ENGINE	Necessary	•	pdx 9999A002	9999A002		9999A000		for Brank ECU.		
	-						.pdx 9999A003	9999A003	-	9999A000		for Brank ECU.		_
							.pdx 9999A004	9999A004		9999A000		for Brank ECU.		_
rr.技包#65.64bit			_				.pdx 9999A005	9999A005		9999A000		for Brank ECU.		-
		\checkmark					.pdx							-
														$\overline{\nabla}$
				Select the rep	rogramming dat	la system l	by system and p	ress the OK but	ton.					
				Ver.技セ#65 64bit	-	_	_			_				
					L L			S		\sim				18

MITSUBISHI **1. REPLACE ECU B) ECU PROGRAMMING** _ • × 9 GM4WXTXCZL3M 2021 Data No. New HW No. 9999A001 9999A0 - for Brank ECU. 9999A000 **.** • × Data No. 1 ENGINE Now Reprogramming 0 % 1 ₽ ENGINE Now Reprogramming 64 % Ver.技セ#65 641



TECHNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER

CONTENTS

- 1. REPLACE ECU
 - A) ADDITIONAL SERVICE WHEN REPLACE ECL
 - B) ECU REPROGRAMMING
 - C) AUTOMATIC CONFIGURATION
 - D) VIN REGISTRATION
 - E) MAC KEY WRITING

- 2. CALIBRATION
 - A) DISTANCE SENSOR ALIGNMENT
 - B) CAMERA AIMING ADJUSTMENT
 - C) MULTI AROUND MONITOR CALIBRATION

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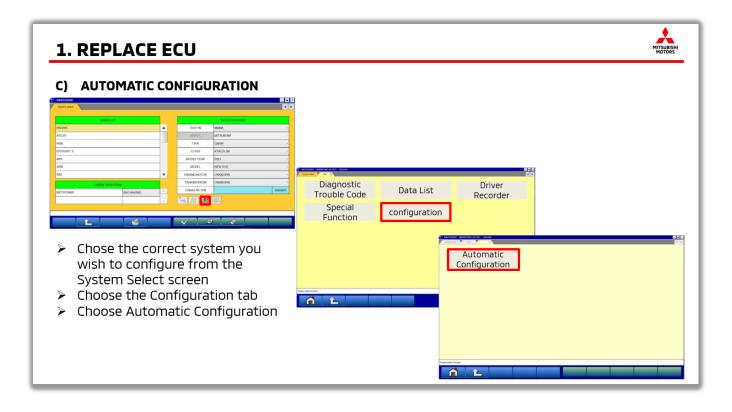
1. REPLACE ECU

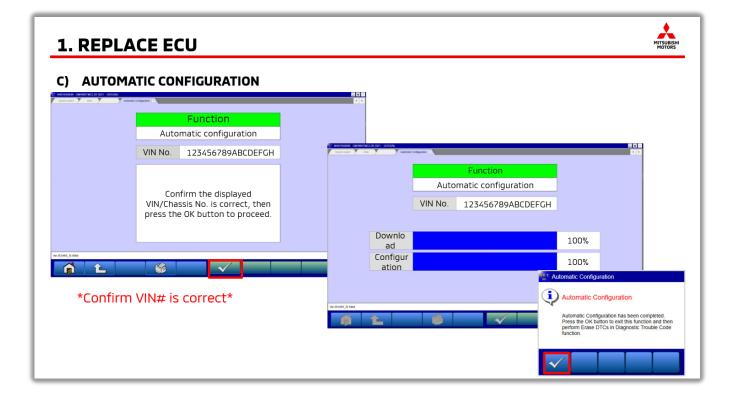
C) AUTOMATIC CONFIGURATION

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)





TECHNICAL HIGHLIGHT 22MY ALL NEW OUTLANDER

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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 - C) MULTI AROUND MONITOR CALIBRATION

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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

Diagnostic Trouble Code	Data List	Driver Recorder		
Special Function	configuration	N401AF 0800 GM4VXCIMC2L3M 2021 UDS2(N) System select BCM Special Function I		E
		MAC key writing	ECU Information	Actuator Test
		Setting Change	Chassis No./VIN Information	Chassis No./VIN Registration
Please select function.		TPMS ID Registration		

1. REPLACE ECU				MITSUBISHI MOTORS
D) VIN REGISTRATION				
System select BCM Special Function Chase	No./VN Registration			
Current Chassis No./VIN	0123456789ABCDEFG			
New Chassis No./VIN	123456789ABCDEFGH			
		System select V BCM Special Function V Chase	in No. VVV Regenzation (■ ■ × < >
		Current Chassis No./VIN	0123456789ABCDEFG	
		New Chassis No./VIN	123456 Registration Confirmation	
Pease input new Chassis No./VIN, and press the OK button. Ver 2012			Registration Confirmation	
			Chassis No./VIN registration will start. Are you sure?	
		Please input new Chassis No /VR, and press the OK button. Ver III 2		

1. REPLAC	E ECU				MITSUBIS
D) VIN REGIST					
New Chassis No./VIN	123456789ABCD	INFERIOR COMPONENCIALINA 2021 LOGATION INFERIOR DECISION COMPONENCIALINA Item Chassis No./VIN	Registration Result Current 123456789ABCDEFGH	Before registration 0123456789ABCDEFG	
Prese leptree Oasia No. We of pres to OK halos. We EEO		Confirm that no DTCs are de	etected in Diagnosis Trouble	Registration Con	
				\checkmark	

СОИТ			MOTORS
CONT	TENTS		
1. RE	PLACE ECU		
E) N	MAC KEY WRITING		

1. REPLACE ECU

E) MAC KEY WRITING

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

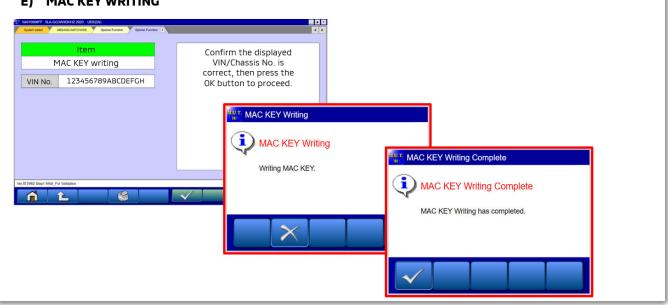
- ≻ ECM
- ≻ тсм
- ≻ BCM
- ➤ AROUND VIEW MONITOR CONTROL UNIT
- ➢ ADAS CONTROL UNIT 2
- ➢ SONAR CONTROL UNIT
- ➤ CHASSIS CONTROL MODULE

1. REPLACE	ECU		MITSI MOT
E) MAC KEY WF	RITING		
ECU Information	Provisional DTCs	Evap Leak Monitor	
Learned value reset	Mode \$06	In-use Performance Tracking	
Timing chain maintenance	Mode \$0A	MAC KEY writing	
Learning	Ethanol forced learning mode	ALCOMMENT R.A. (CS3NC3HC2 ACC 300) ACC 300(0) ACC 300	
		Item Confirm the displa MAC KEY writing VIN/Chassis No. correct, then press correct, then press	is
e select function.		VIN No. 123456789ABCDEFGH OK button to proce	
		Ver Itteld Supt 642, For Valdadin	

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1. REPLACE ECU

E) MAC KEY WRITING



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