

Subject:

BODY CONTROL MODULE (BCM) RECOVERY PROCEDURE

Service Alert No.: SA-059/20

Last Issued: 08/03/2020

BULLETIN NOTES

This service alert supersedes the previously issued service alert listed below. The changes are noted in Red text.

Previous Service Alert:	Date(s) Issued:
SA-039/19	12/5/19, 11/29/19 and 08/23/19

APPLICABLE MODEL(S)/VINS

2019 Mazda3

DESCRIPTION

During BCM replacement, MDARS may display a Configuration Error warning message. This may be caused by any of the following:

- Poor internet connection
- MDARS failure
- Low Battery

Perform the BCM Recovery Procedure below to manually configure the BCM.

REPAIR PROCEDURE

BCM Recovery

Preparation

NOTE: The odometer may be reset when the BCM is replaced and configuration is done by using AS BUILT data (Factory Reset) if the original BCM is out of order and unable to identify the vehicle using M-MDS. If the odometer is reset when replacing the BCM, follow the instruction on page 94 of Mazda Warranty Policy and Procedure Manual. Make sure to take the required action to keep the odometer record as suggested or designated by the state (similar to the instrument cluster replacement).

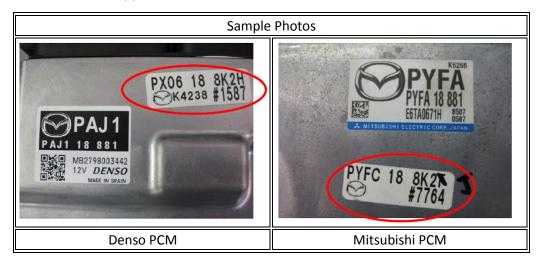
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- Keep a battery charger connected to the vehicles battery at all times, even if the battery is fully charged, except if the negative terminal is disconnected.
- Switch the following OFF:
 - Headlamps
 - Climate Control
 - Wipers/Washers
 - Interior illumination
- Open the front doors on both sides and the trunk lid (4SD) or liftgate (5HB), and keep them open during the entire process.
- If MDARS causes any error, repeat the same step again from the point before the error happened.

1. For the preparation of manual entry mode, check the PCM software file name on the label of the actual PCM. Sample photos belows show "PX06-188K2-H" / "PYFC-188K2-J" as the PCM software file names. (It is not recommended, but you can also open the MDARS session as mentioned at the end of this document.)

NOTE:The smaller sticker on the PCM is the PCM File name, which is the number to enter. When entering the PCM software number on MDARS, the dashes "-" are mandatory and have to be entered and the file name must be in Upper Case.



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2. Launch MDARS by selecting "Start". If a connection is not possible after two tries due to IG OFF, MDARS starts the manual entry mode(forced ignition ON). Enter the VIN and the PCM software number.

Mazda Diagnostic and Repair Software (MCARS)	
Vehicle Identification Kently a which uping current VCL	Change VCI Select another VCI. You do not need to do this unless you use a wireless VCI. Cange Continue Offline Debutton to confill be writhing a network connection. You will be writhing on white you can do, depending on the data that has been propared. Unline Mode Start with no connected vehicle. You will be restricted in what you can do.
	wihicle. You will be restricted in what you can do. No Wehicle Mode

3. Perform the BCM configuration using MDARS and follow the description on the screen (to read out the BCM data before removing the BCM).

a Quick Check 🗙 Toolbax	
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 Software update 	
- Configuration	
Configuration	Not Run Run
➡ ENGINE	
BRAKES	

IMPORTANT: When the ignition is switched ON during configuration, note the actual vehicle mileage.

4. Replace the BCM according to the instructions on MGSS (BODY CONTROL MODULE (BCM) REMOVAL/INSTALLATION) NOTE:

- In the case of "no IG-ON issue", the ignition can't be turned off using the Engine Start Button. Disconnect the battery charger and disconnect the battery negative cable.
- The battery needs to be disconnected before installing the new BCM, otherwise errors may occur during the configuration.

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5. Confirm the wipers are turned OFF.

6. Continue the configuration with IG-OFF since the ignition can't be turned on using the Engine Start Button at this point. Follow the procedure described on the MDARS screen where it includes Special Ignition ON.

🖴 Quick Check 🗶 Toolbox 🔹 Configurati 🗙	
ECU Replacement	^
Install the new ECU	
You can now replace the ECU. Press Continue to write the stored configuration to the new ECU.	

7. Perform the [Replacing Immobilizer related module] programming using MDARS.

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🕂 TR	ANSMISSION/TRANSAXLE		
RE:	STRAINTS		
🕇 SE/	ATS		
- SE	CURITY AND LOCKS		
	MMOBILIZER		
۶	Activating extra Advanced Key	Not Run	Run
×	Deactivating and activating Advanced Key	Not Run	Run
۶	Replacing Immobilizer related module	Not Run	Run
4	Registration for Remote Engine Starter(RES)	Not Run	Run
£	Koviess examples provention of radio interference	Not Dup	Dun

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Tip on immobilizer system-related part programming

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eplacing Immobili	zer related module	VIN
	s the manufacturer's website to obtain an incode for use fication Number 6078 Outcode - CBCM 028909108787	e on the following screen. VIN: JMZBP6HE601105404 Part Number:
art No.	Serial No. Outcode	



8. Run the [Erase Driving Position] function using MDARS (if the vehicle is equipped with the seat position memory).

h Quick	Check X Toolbox		
S	ž +		× ۶
+	Configuration		
+	ENGINE		
+	BRAKES		
+	TRANSMISSION/TRANSAXLE		
+	RESTRAINTS		
-	SEATS		
	Erase Driving Position	Not Run	Run
	Learning Driving Position	Not Run	Run
	SECURITY AND LOCKS	NOTRUE	HUN

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9. Perform the [Learning Driving Position] using MDARS (if the vehicle is equipped with the seat position memory system).

S	ž tr		*
+	Configuration		
+	ENGINE		
+	BRAKES		
+	TRANSMISSION/TRANSAXLE		
+	RESTRAINTS		
-	SEATS		
	Erase Driving Position	Finished Jun 18, 2019 4:51:10 PM	Run
	Learning Driving Position	Not Run	Run
+	SECURITY AND LOCKS		

10. Perform the synchronization of the electrical supply unit (ESU) and the door-electrical supply unit using the following procedure.

a. Open the front doors on both sides and the trunk lid (4SD) or liftgate (5HB) if not already done.

- b. Wait for at lease one minute.
- c. Switch the ignition ON and wait for at least one second.
- d. Switch the ignition OFF.
- 11. Perform the [Calibrating Yaw Rate for VCM] using MDARS.

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Ei	NGINE (SKT/ICTIV-D)		
EP	IGINE (SKYACTIV-X)		
BI	VAKES		
۶	Cariblating Lateral G Sensor for DSC	Not Run	Run
۶	Cariblating Longitudinal G Sensor for DSC	Not Run	Run
۶	Cariblating Pressure Sensor for DSC	Not Run	Run
۶	Cariblating Yaw Rate for DSC	Not Run	Run
۶	Calibrating Yaw Rate for VCM	Not Run	Rin
۶	Self-Diagnosing Brake Line	Not Run	Bun
۶	Replacing Brake Fluid	Not Run	Run
TE	ANSMISSION/TRANSAXLE		

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12. Perform the FSC aiming when DTC for FSC is stored (e.g. B14F0:04-VCM, B14F0:76-VCM, B14F0:87-VCM, B14F0:92-VCM etc.). Either dynamic aiming or static aiming is available using MDARS. Check MGSS for aiming condition and procedure.

13. If "Factory" is displayed in the TFT display of the instrument cluster:



a. Switch the ignition OFF and remove Fuse F27 (Room Fuse) in Relay Fuse Block.

b. Start the Engine, then turn the engine OFF.

c. Install Fuse F27.

d. Start the engine, then turn the engine OFF.

e. Confirm that "Factory" indication is not displayed.

14. If the Wrench indicator is on:



Perform "Oil Maintenance reset" in the Mazda Connect Menu.

15. Read out any DTC's and clear them.

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Alternative procedure to open the MDARS session

1. Connect the VCM-II to a similar Mazda3 (BP) and start the MDARS session.

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(Toolbox						
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MB	66	ow	DASH_ESU		152	rsa.
0000,150,0	0008,150,9	950	05	rsax	DMC	PSM
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	0000(150,0 K	BCM Mill 56 0000(131.0 K COV	BOW MIBI 86 OW 0000LISU,0 D000ELISU,P 086 K COU LOW	Image: Standback Image: Standback<	ECM ECM <td>BOW BOW WOM MVIII BGG OMU OMULISU FIR FIG MVIII BGG OMU OMULISU FIR FIG 00001_1SU_0 B0001_1SU_0 OMU OMULISU FIR FIG 00001_1SU_0 B0001_1SU_0 OMULISU OMULISU FIR EMULISU 1C COU LONE LONE FIR FIR</td>	BOW BOW WOM MVIII BGG OMU OMULISU FIR FIG MVIII BGG OMU OMULISU FIR FIG 00001_1SU_0 B0001_1SU_0 OMU OMULISU FIR FIG 00001_1SU_0 B0001_1SU_0 OMULISU OMULISU FIR EMULISU 1C COU LONE LONE FIR FIR

- 2. Disconnect the VCM-II from the donor vehicle and connect it to the concerned vehicle with IG OFF.
- 3. Click on "Run" at "Special Ignition ON" and follow the procedure on the screen.

in Qui	ick Check 🛪 Toolbox		
S	× *		* <i>*</i>
+	Configuration		
+	ENGINE		
+	BRAKES		
+	TRANSMISSION/TRANSAXLE		
+	RESTRAINTS		
+	SEATS		
+	SECURITY AND LOCKS		
+	LIGHTING SYSTEMS		
+	WIPER/WASHER SYSTEM		
-	POWER SYSTEMS		
	✗ Special Ignition ON	Not Run	Run
+	HACTIVSENSE		
	March Conned		0

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4. Keep the ignition ON and close MDARS by pressing



5. Restart MDARS and click on "Start".



6. Verify the VIN is correct.



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