Mazda North American Operations Irvine, CA 92618-2922



Subject:

BODY CONTROL MODULE (BCM) RECOVERY PROCEDURE

Service Alert No.: SA-039/19

Last Issued: 08/23/2019

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: BCM replacement may cause the mileage to reset to zero.

- 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.

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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.



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. Enter the VIN and the PCM software number.

Made Depression and Repair Software (MOARS)	And have been a state of the st
	Change VCI =
<u> </u>	Select another VCI. You do not need to do this unless you use a wireless VCI.
Vehicle Identification	Change
Identify a vehicle using current VCI.	Continue Offline
	Use button to continue without a network connection. You will be restricted on what you can do, depending on the data that has been prepared.
	Office Mode
	Start with no connected vehicle
	Use button to continue without connecting to a webicle. You will be restricted in what you can do.
	No Vehicle Mode

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

🖨 Quic	k Check 🗙 Toolbax		
S	ă H		× ×
+	Software update		
-	Configuration		
	Configuration	Not Run	Run
+	ENGINE		
+	BRAKES		
	TOANEWISSION/TOANEAVLE		

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.
- 5. Confirm the wipers are turned OFF.

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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.	
Continue	

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

e Quk	ck Chec	k 🗙 Toolbox		
S	ĬŒ	њ-		* *
+	EN	GINE		
+	BR	AKES		
+	TR	ANSMISSION/TRANSAXLE		
+	RE	STRAINTS		
+	SE	NIS		
-	SE	CURITY AND LOCKS		
-	e I	MMOBILIZER		
	۶	Activating extra Advanced Key	Not Run	Run
	4	Deactivating and activating Advanced Key	Not Run	Run
	۶	Replacing Immobilizer related module	Not Run	Run
	۶	Registration for Remote Engine Starter(RES)	Not Run	Run
	4	Kaulass perameter provention of radio interference	Not Due	Dun

Tip on immobilizer system-related part programming

Replacing Im	nmobilizer related module	VIN
ou will be require	ed to access the manufacturer's website to obtain a Authentification Number 607BOutcode - CBCM Serial No.	an incode for use on the following screen. VIN: JMZBP6HE601105404 Part Number: D2890910B7878EDF rror Control AAECS Outcode Error Control

Elapsed time



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

ii Quid	k Check X Toolbox		
S	ž ÷		* <i>*</i>
+	Configuration		
+	ENGINE		
+	BRAKES		
+	TRANSMISSION/TRANSAXLE		
+	RESTRAINTS		
-	SEATS		
	Erase Driving Position	Not Run	Run
	Learning Driving Position	Not Run	Run
	SECURITY AND LOCKS		

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

Сî	ă +		×
+	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.

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11. Perform the [Zero position learning for Yaw Rate Sensor] using MDARS.

Ŋ	ń -		*
C	onfiguration		
E	NGINE		
B	RAKES		
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	The zero position learning for Yaw Rate Sensor	Not Run	Run
۶	Air mixture examination of the brakes line	Not Run	Run
4	Brake fluid replacement	Not Run	Run

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.

			0	A VIN: JM2BP	8	(21) 🗰 14.3v
Toolbox						
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	804			-	VOM	
MB	66	œu	OKSI(150		152	rsa.
0000,150,0	0008,030,9	050	05	rsee	DMC	194
	cou	LOIL	LCMI	88.	ISIN.	**
FOR	- 101	150				
	Mill 0008,150,0 .K	BCM MHB 256 D000E_150_P K COJ	BCN MEB EG CMU D000E_USU_P D000E_USU_P D00E K COU LONE	BOORDOOL BOOR BOOR	Iooibox BOM BOM	Scolbox Scolbox MRB SSG CMU OKSPLISU FR FSC D0008,150,0 D0008,150,0 RR SSG SSG SSG SSG K COU D0008,150,0 RSG SSG S

- 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.



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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.

			Ogn5a	VIN: JMZBP6H	E601105404	(🖾) 📋 12.7v
* Toolbox						
						છ
	вся		-		VCM	
МНВ	150	СМИ	DAGI, ESU	fR	FSC	FSRL
DOOR_ESU_D	DOOR_ESU_P	DSC	UPS .	FSRR		РЭМ
к	ccu	LCML	LCMR	RSRL	RSRR	
POM	RCM	ESU				
	MHS DOOR_ESU_D K	BCH MHB ISC DOOR_ESU_D DOOR_ESU_P IC CCU	BCM MHB ISG C.MU DOOR_ESU_P DSC KC CCU L.CML	MHB ISC CMU DKGH_ESU DOOR_ESU_D DOOR_ESU_P DSC EPS IC CCU LCML LCMR	BCM BCM BCM BASH_ESU FR MHB ISS CMU BASH_ESU FR DOOR_ESU_D DOOR_ESU_P DSC EPS FSR IC CCU LCML LCMR RSR	Note BCM VCM MHB BSG CMU DMAILERU FR FSC DOOR_ESU_D DOOR_ESU_P BSG EPS FSR FSR KC CCU LCML LCMR RSRL RSR

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