



Subject: REAR TURN LIGHTS MAY FLASH ONLY ONCE FOR UNLOCK OPERATION	Bulletin No.: 09-009/20
	Last Issued: 01/29/2020

APPLICABLE MODEL(S)/VINS

2019 Mazda3 (Japan built) with VINS lower than JM1BP*****125955 (produced before Feb 22, 2019)
2019 Mazda3 (Mexico built/US spec) with VINS lower than 3MZBP*****102712 (produced before Feb 22, 2019)

DESCRIPTION

Some customers may notice that the rear turn lights only flash once instead of twice for the answer-back when a door unlock operation is performed using the remote transmitter button or the touch sensor. The concern occurs only once after the vehicle is in sleep mode (5 minutes or more after the doors are locked). This is caused by improper control logic of the electrical supply unit (ESU). To correct this issue, the ESU software has been modified.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify customer concern.
2. Reprogram the ESU using the Mazda Diagnostic And Repair Software (MDARS). Refer to "MDARS - ECU Reprogramming Procedure". **NOTE:**
 - If the current calibration file name in the ECU FILENAME screen is the same or with a later suffix than BEMD-66S07-B or BCKB-66S07-*, reprogramming is not necessary.
 - After reprogramming, pending DTC P2610:00 [PCM] will be stored without the Check Engine Light ON. Start the engine and clear the DTC.
 - After reprogramming, if DTC U2120:00 and/or U2500:82 are stored and the i-ACTIVSENSE warning light (amber) turns ON, refer to SA-036/19.
3. Clear the DTC, turn the ignition off, and get out of the vehicle.
4. Close and lock the door.
5. Wait for at least ten minutes.

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6. Verify the repair by starting the engine and making sure that all warning lights are off.

NOTE: If any DTCs should remain after performing DTC erase, diagnose the DTCs according to the appropriate troubleshooting instructions on MGSS.

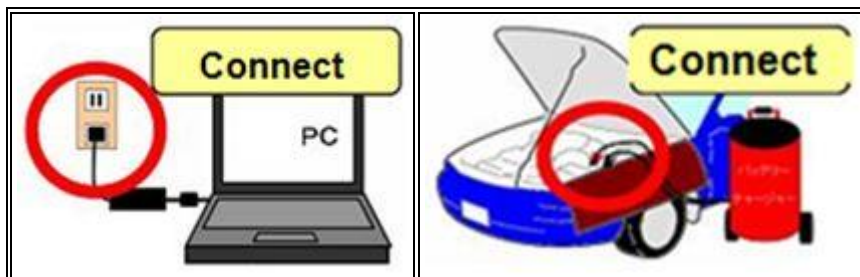
MDARS ECU Reprogramming Procedure

NOTE: This procedure explains a generic reprogramming for all Electrical Control Units (ECU) such as PCM, BCM, ESU, etc. Be aware that some sentences and screen shots below mention a certain control unit such as "PCM" or "BCM" as an example.

ATTENTION: READ ALL CAUTIONS AND NOTES BEFORE AND AFTER REPROGRAMMING!

CAUTION:

- **A poor connection between the vehicle and M-MDS and/or low voltage may result in abnormal termination and/or data corruption. A low battery voltage may cause a reprogramming failure resulting in unexpected ECU replacement.**
- **Make sure that the following connections are firmly connected, then DO NOT touch the VCM and DLC cable to prevent noise and a poor connection.**
 - **Between the vehicle-side connector and the DLC cable**
 - **Between the PC-side connector and the USB port of the PC**
- **When reprogramming with MDARS, power consumption and voltage fluctuation are greater than with IDS. Connect the GR8 battery charger and use Manual Mode set to 14.5 volts with no more than 10-15A charging current to the vehicle to minimize any voltage fluctuation.**

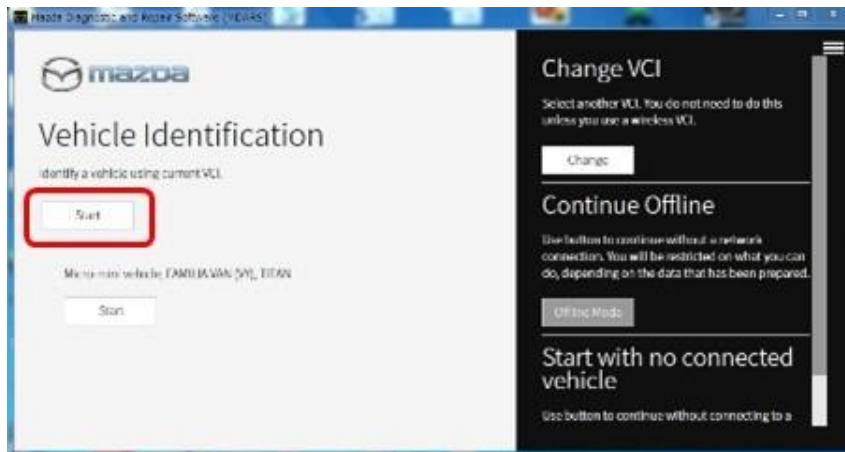


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BEFORE REPROGRAMMING**NOTE:**

- Turn off all electrical loads (i.e. A/C blower, audio system, rear defogger and headlights).
- Perform a self-test and verify no DTCs are stored. If any DTCs are stored, repair the concern and delete the DTCs.
- Disconnect any aftermarket accessories (non-genuine Mazda accessories).
- Terminate all programs other than MDARS on the PC. Running other programs may interfere with the MDARS performance, resulting in the PC freezing or other problems.
- Perform reprogramming with a proper internet connection. When using a wireless network, make sure the connection is strong.
- Make sure to keep enough free space on the PC's hard disc. Insufficient free space (less than 1 GB) may result in the PC freezing during reprogramming.

1. Connect the M-MDS to the vehicle.
2. Launch the Mazda Diagnostic And Repair Software (MDARS).
3. Turn the ignition on, then click "Start".



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4. Select the “toolbox” tab.



5. Select Work Support group.

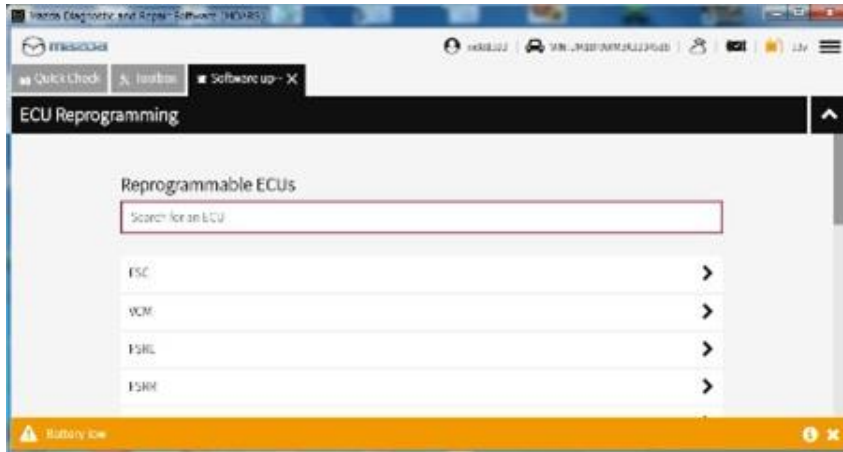


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6. Select "Software update", then click "Run".

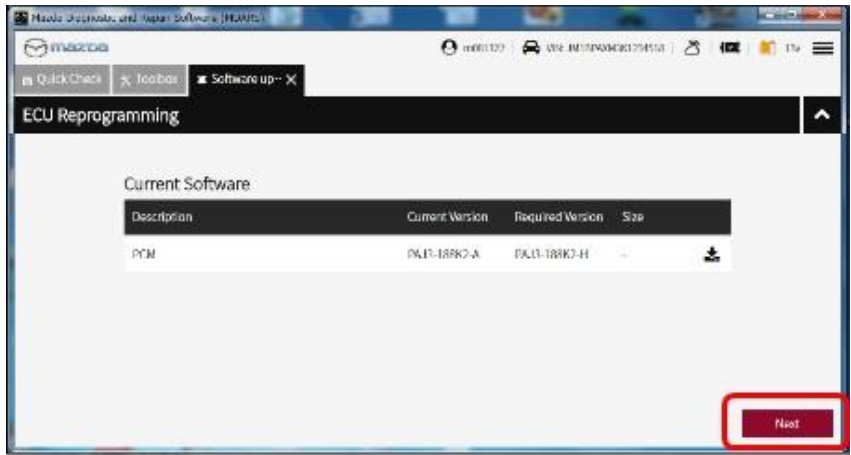


7. Select the ECU to be reprogrammed.

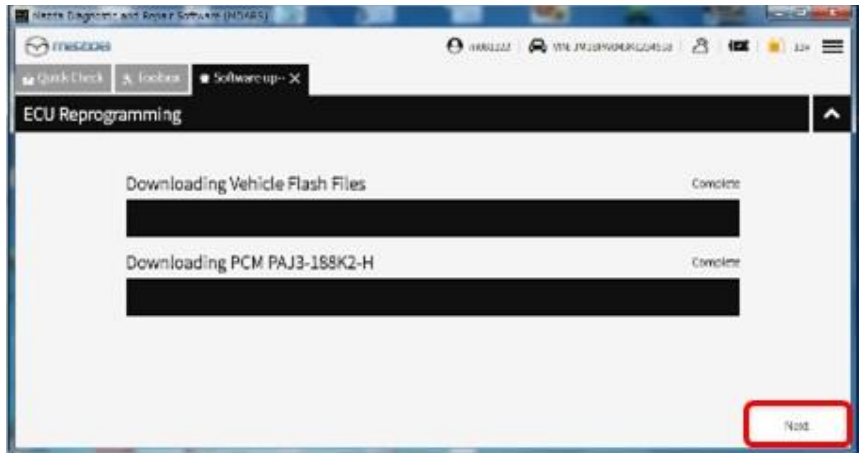


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8. Confirm the current and new software versions, then click “Next”.
NOTE: When reprogramming the BCM, two softwares will be shown.



9. Wait for the download, then click “Next”. **NOTE:** When reprogramming the BCM, downloading will occur twice.

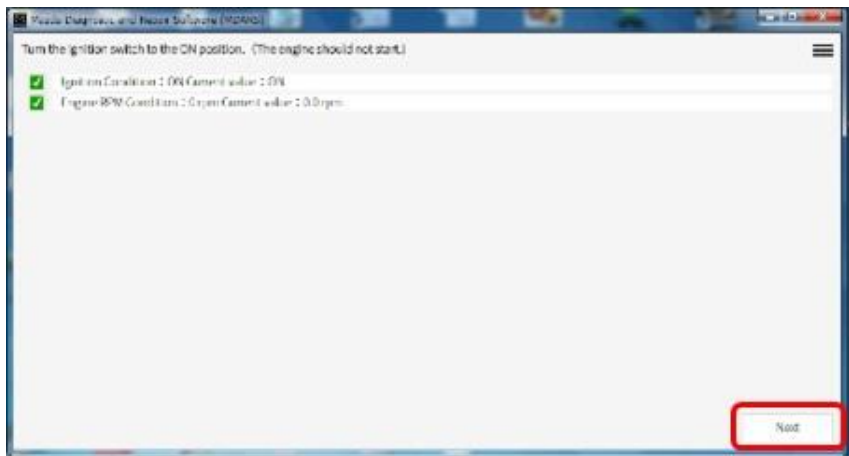


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10. Read the screen instructions, then click “Next”.



11. Follow the instructions on the screen, then click “Next”.

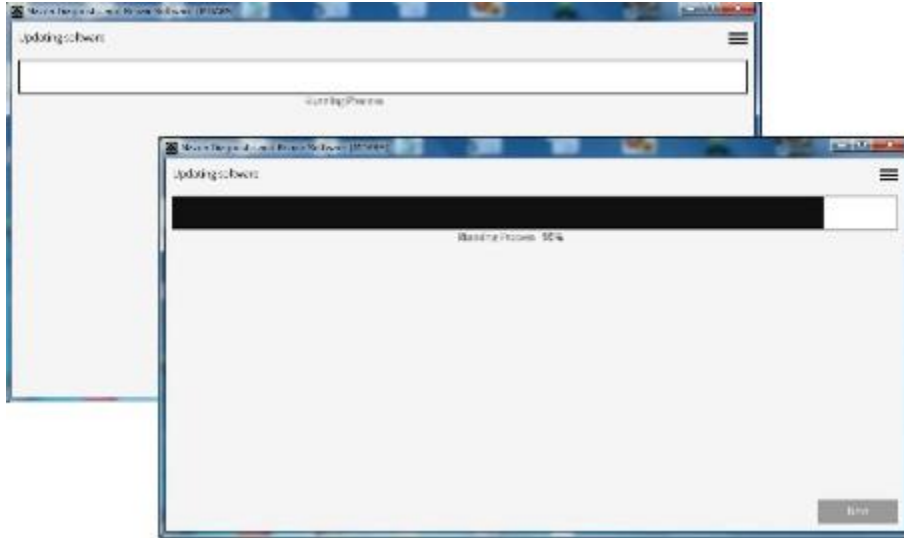


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12. Wait for the reprogramming to complete.

NOTE:

- The progress bar will stay at 90% for 30 seconds. This is not a failure.
- When reprogramming the BCM, this process will occur twice.



AFTER REPROGRAMMING

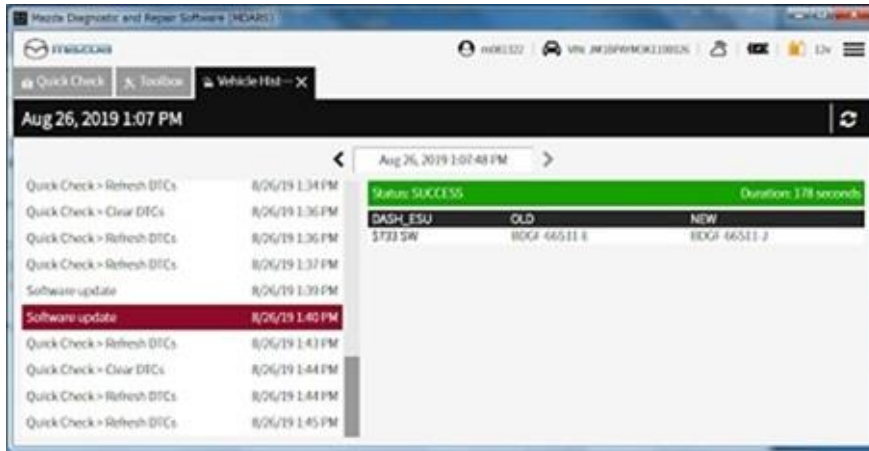
NOTE:

- Select "Vehicle History" under "Collect Diagnostic Information", then click "Run".



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- Confirm the reprogramming on the screen and save the screen copy as a record.



WARRANTY INFORMATION

NOTE:

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Mazda’s New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	5555-67-5Z0
Quantity	0
Operation Number / Labor Hours:	XXRC4XFX / 0.2 Hrs.

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