

Service Information

Mazda Motor Corporation

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Category F	Repair Guidance	Ref. No. R087/13A REV	Page 1 of 2
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued October 31, 2013	
Please convey this information to your <input type="checkbox"/> Director <input checked="" type="checkbox"/> General Manager <input checked="" type="checkbox"/> Warranty Dept. <input checked="" type="checkbox"/> Parts Dept. <input checked="" type="checkbox"/> Training Dept. <input checked="" type="checkbox"/> Field Rep.		Date Revised January 29, 2014	
Applicable Model Mazda3 (BL) and Mazda5 (CW) with MZ-CD 1.6 engine & EURO5 Emission level	Applicable Countries or Specifications Europe		

REVISED

Revision Note: "Mass Production Change" has been corrected.

Subject: Rough Idle when engine is cold

DESCRIPTION

Some vehicles may exhibit rough idle when the engine is cold. After engine temperature has increased, the rough idle stops and the engine runs normal.

CAUSE

Improper control logic of the PCM.

MASS PRODUCTION CHANGE

Mazda3 (BL)

The mass-production has been discontinued.
As a service countermeasure, reprogram the PCM with improved control logic.

Mazda5 (CW)

The control logic of the PCM has been changed.

SUBJECT VIN & PRODUCTION DATE RANGE

Mazda3 (BL)

JMZ BL**** ** 227332 (August 9, 2010) ~ JMZ BL**** ** 999999 (End of Production)

Mazda5 (CW)

JMZCW**** ** 103052 (October 10, 2010) ~ TBD

REPAIR PROCEDURE

Verify customer complaint and reprogram the PCM with Mazda Modular Diagnostic System (M-MDS) using IDS **87.06** or later software, or IDS **88.01** or later software.

Note:

- Always update the IDS tool first, then follow on-screen instructions to download the needed calibration file for PCM reprogramming.
- Follow the attached "Service Caution for reprogramming".

Calibration Files Information

Mazda3 (BL)

Spec.	Engine	Transmission	File name	Remark
EC	Y6	MT	AV61-14C204-PH	After reprogramming

Mazda5 (CW)

Spec.	Engine	Transmission	File Name
EU	Y6	MT	BV61-14C204-PD (*)

(*) On CW Y6 Euro5 models the suffix of the calibration file name is different from the suffix of the PCM part number (e.g. for the calibration file name BV61-14C204-PD the corresponding PCM part no. is BV61-12A650-DD). For this reason, the file name shown in the M-MDS Log Viewer is different from the actual calibration file name. If you start a new M-MDS session after PCM reprogramming to confirm the new calibration file name, BV61-14C204-DD will be displayed instead of BV61-14C204-PD. This is normal and must not be considered as a concern.

WARRANTY INFORMATION

This warranty information applies only to verified customer complaint ON VEHICLE eligible for warranty repair.

Assembly group	F – Fuel and Emission Control	
Subassembly group	08 - EMISSION CONTROLS	
Symptom Code	03	
Damage Code	9W	
DTC Code	-	
Causal Part No.	5555 RP PCM	
Q'ty	0	
Operation No. & Labor Hours	PCM, Reprogramming	XXJDUXFX, 0.3 Hrs.
Period Covered	Normal Warranty Period	

After the reprogramming, be sure to keep the copy of "Log Viewer" screen on M-MDS along with the repair order and warranty application sheet, until the vehicle's warranty period expires. Please refer to S/I E005/10.

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 2CA2302938 (MC Internal Use)

-Attachment- Service Caution for Reprogramming

CAUTION

- Perform reprogramming only when the concern matches to the condition described on Service Information. Unnecessary reprogramming may change drive feeling and result in customer complaint.
- Do NOT perform reprogramming with modules which are taken from other vehicles and installed on the repaired vehicle. There is a possibility that the engine will not start.

1. Regular maintenance requirements for PC.

- Verify that the latest M-MDS software is installed on the PC.
- Make sure to keep proper free space on the PC's hard disc. Insufficient free space (less than 1 GB) may result in PC freeze during reprogramming.

2. Attentions for PC operation.

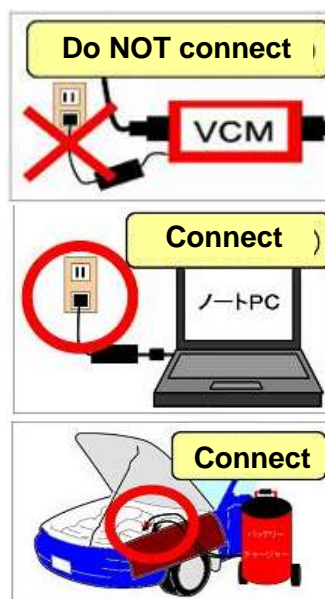
- When following M-MDS instructions such as "Select YES/NO", "Turn IG on" etc., carefully read the instructions first then acts the next operation correctly. Too quick action will cause incorrect selection/ key touching and the following PC freeze. Wait for a few seconds and then select and press correct button.
- Terminate all programs other than IDS on the PC. Or, it will take longer time for reprogramming, PC may freeze or it will cause any other problem.
- Perform reprogramming under proper Internet environment. Especially when using wireless network, make sure to have good connection.
- Set the power management of the PC to 'Always ON'.

3. Before reprogramming

- For vehicles equipped with i-stop, the parameter "Battery State of Charge" is reset during the PCM reprogramming procedure, but it is needed for "Battery condition initialization setting (i-stop setting)" to decide whether battery charging is necessary or not. Therefore check and record the PID BATT_SOC inside the PCM first by using M-MDS Data logger function before reprogramming the PCM.

- Low voltage may result in abnormal termination and/or PCM (TCM) data corruption. Please check following items.

- Do NOT connect AC adapter to VCM when M-MDS is communicating with a vehicle.
- Connect AC adapter to the PC in order to stabilize voltage fluctuation during reprogramming (Do NOT use vehicle battery outlet as power source for the PC).
- Connect battery charger (charge current maintained within 10 to 15A) to the vehicle to stabilize voltage fluctuation.
- Make sure to turn off all the electrical loads. (Especially A/C (blower), audio, rear defogger and headlights).
- Disconnect all non-genuine aftermarket electrical parts and modifications.



4. During reprogramming

- On some models, the meter illumination turns off during reprogramming. This is normal operation.
- Do not touch the VCM and DLC cable to prevent noise occurrence and bad connection.

5. After reprogramming

- After reprogramming, delete all DTCs, then perform self-test and verify no DTC is stored.
 - Note:** After reprogramming, communication error related DTCs may be stored. This is normal operation and you can delete these DTCs.
 - Note:** In some cases the vehicle may set U-codes that will not clear and the engine will not shut off. To correct this concern, disconnect the F-45 (30 amp ABS fuse) for 10 seconds, then recheck. The F-45 fuse is located in the F-01 fuse block on the left side of the engine compartment.
- Please close the session once even when you continue the reprogramming on another same model.
 - Note:** Even with the same model, the applicable reprogramming file may be different depending on the equipment type/level of transmission, immobilizer, etc.
- Please confirm the file name on the “Log Viewer” screen after reprogramming.

NOTE:
After reprogramming, once close the session. Then, open a new session again and go to the “Log Viewer” screen on which the programmed file name is displayed as shown in figure. Take the screen copy and keep it with the reprogramming date written on it.

Filename (PCM):
SW-**LFCAEA**000

LFCA : Base No.
A : Suffix

Please verify the suffix is same or later than the Service Information.

Filename (PCM):
PE7B-188K2-D

PE7B-188K2 : Base No.
D : Suffix

Please verify the suffix is same or later than the Service Information.

Filename (TCM):
PE25-21PS1-A

PE25-21PS1 : Base No.
A : Suffix

Standard Equipment Modules - Fail - (RCM)
Optional equipment Modules - Fail - (RPSDM)
(TCM) Part Number = FZ21-21EM1-
(TCM) FILENAME = PE25-21PS1-A
(TCM_HARDWARE_NUM = FZ21-1BZB7-
Standard Equipment Modules - Pass - (TCM)

<Caution for vehicle with i-stop>

- For vehicles equipped with i-stop, perform “battery condition initial learning” after reprogramming, or i-stop does not function.