

Service Information

Mazda Motor Corporation

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Category F	Repair Guidance	Ref. No. R031/13B	Page 1 of 3
Coverage <input type="checkbox"/> Distributor only <input checked="" type="checkbox"/> Please inform your dealers		Date Issued April 18, 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 February 24, 2014	
Applicable Model Mazda6 (GJ) with i-ELOOP	Applicable Countries or Specifications Europe, ADR,4A		

UPDATED

Update Note: "Subject has been changed; "BEGINNING VIN & DATE OF MODIFICATION" has been added

**Subject: i-stop warning light (Amber color) is flashing and message "Battery Management System Inspection Required" is displayed
DTC P0A8D:00 is stored**

DESCRIPTION

When an engine is re-started after i-stop condition, some vehicles may experience that i-stop warning light (Amber color) flashes and the message "Battery Management System Inspection Required" is displayed in the instrument cluster. DTC P0A8D:00 is stored in memory.

P0A8D:00 Power supply system circuit low input

CAUSE

Improper logic of PCM

MASS PRODUCTION CHANGE

The control logic of PCM has been changed.

BEGINNING VIN & DATE OF MODIFICATION

EC Spec

JMZ GJ**1* ** 138244	May 20, 2013
JMZ GJ**2* ** 138244	May 20, 2013
JMZ GJ**3* ** 142303	July 1, 2013
JMZ GJ**6* ** 142303	July 1, 2013
JMZ GJ**7* ** 142303	July 1, 2013

ADR Spec

JM0 GJ**2* ** 113138	May 20, 2013
JM0 GJ**3* ** 111391	April 12, 2013

LHD/RHD Spec

JM6 GJ**** ** 113591	May 23, 2013
JM7 GJ**** ** 113591	May 23, 2013

REPAIR PROCEDURE

* The parameter "Battery State of Charge (SOC)" is reset during the PCM reprogramming procedure, but SOC is needed when performing "Battery condition initialization setting" after PCM reprogramming to decide whether battery charging is necessary or not. Therefore check and record the PID BATT_SOC first by using M-MDS Data logger function before reprogramming the PCM.

1. Perform troubleshooting for the DTC P0A8D:00 following the workshop manual
2. If there is no abnormality, reprogram the PCM with Mazda Modular Diagnostic System (M-MDS) using IDS 84.02 or later software.

Note:

- Verify the current PCM file name in the vehicle by log view screen. If it is the same as that in the below chart or later one, you do not need to reprogram it.
- 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".
- After the reprogramming, verify the file name if it matches with in the below chart.

Calibration Files Information

Spec.	Engine	Transmission	Power	File name	Note
ADR	SH	AT	-	SH08-188K2-J	
	PY			PY4H-188K2-C	DENSO
				PY4E-188K2-C	MITSUBISHI
EC	SH	MT	LP	SH1R-188K2-K	4SD
			HP	SH05-188K2-K	
		AT	LP	SH1S-188K2-J	
			HP	SH06-188K2-K	
	PE	MT	HP	PE6G-188K2-F	DENSO
				PE5T-188K2-F	MITSUBISHI
		AT		PE6H-188K2-F	DENSO
				PE5V-188K2-F	MITSUBISHI
	PY	AT	-	PY3H-188K2-C	DENSO
				PY3E-188K2-C	MITSUBISHI
				PY3J-188K2-C	DENSO
				PY3F-188K2-C	MITSUBISHI
Russia	PY	AT	-	PY5C-188K2-C	DENSO
PY4V-188K2-C				MITSUBISHI	
4A	PY	AT	Stage4	PY5D-188K2-C	DENSO
			Stage5	PY4W-188K2-C	MITSUBISHI

3. After PCM reprogramming, conduct the battery condition initial setting (i-stop setting) following the workshop manual.
<Workshop Manual>
Required procedure after negative battery cable disconnection/connection
BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING) [SKYACTIV-D 2.2]

WARRANTY INFORMATION

Note: 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		6X	
Damage Code		9W	
DTC Code		P0A8D	
Causal Part No.		5555 RP PCM	
Q'ty		0	
Operation No. & Labor Hours	Reprogramming	XXJ66XFX	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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 1D10954122/1CC1465451 (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.

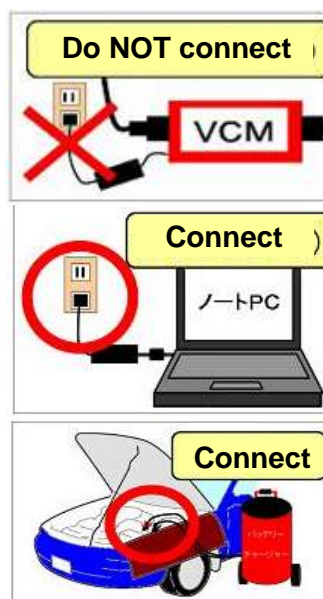
- When following M-MDS instructions such as "Select YES/NO", "Turn IG on" etc., carefully read the instructions first then acts the next operation correctly. Too quick action will cause incorrect selection/ key touching and the following PC freeze. Wait for a few seconds and then select and press correct 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-**LFCAE**A000

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.