

<b>Subject:</b> <b>MAZDA SERVICE PROGRAM (MSP23) - MIL ON WITH P2183 AND/OR P0111</b>	<b>Bulletin No:</b> 01-023/11
	<b>Last Issued:</b> 06/07/2011

## BULLETIN NOTE

- This bulletin supersedes the previous bulletin 01-014/09 issued on 04/29/09, 05/07/09, and 05/22/09. The WARRANTY INFORMATION has been revised.
- Changes are noted below in Red beside the change bar.

## APPLICABLE MODEL(S)/VINS

2010 Mazda3 vehicles produced from October 7, 2008 through April 23, 2009

- VIN Range: JM1BL\*\*\*\*A1 100120 - 152216

## DESCRIPTION

On some 2010 Mazda3 vehicles, when the engine is started after parking the vehicle under intense sunlight, the malfunction indicator light (MIL) may illuminate with DTC P2183 (ECT sensor No.2 circuit range/performance problem) and/or P0111 (IAT sensor circuit range/performance problem) stored in PCM memory. This is caused by an excessive temperature difference between the ECT #2, and the IAT due to the sudden rise of engine compartment temperature from sunlight warming the vehicle's hood. A revised PCM calibration is now available to repair this concern.

### NOTE:

- UNDER THE MAZDA SERVICE PROGRAM (MSP23), ALL CURRENT DEALER INVENTORY AND RETAILED VEHICLES FOUND TO BE WITHIN THE ABOVE VIN RANGES, AND PRODUCED BETWEEN OCT. 7, 2008 THROUGH APR. 23, 2009, MUST BE INSPECTED AND REPAIRED ACCORDING TO THE INSTRUCTIONS CONTAINED IN THIS SERVICE BULLETIN.
- BEFORE PERFORMING ANY REPAIR, VALIDATE THAT THE VEHICLE IS APPLICABLE TO THIS PROGRAM BY PERFORMING AN "eMDCS WARRANTY VEHICLE INQUIRY" AND VERIFYING THE VEHICLE DISPLAYS CAMPAIGN "MSP23" AND ITS CAMPAIGN STATUS DISPLAYS "OPEN". SEE "VEHICLE INSPECTION PROCEDURE" BELOW.

### DEALER INVENTORY:

Inspect and repair if necessary, all applicable vehicles currently in dealer inventory according to the procedures contained in this service bulletin.

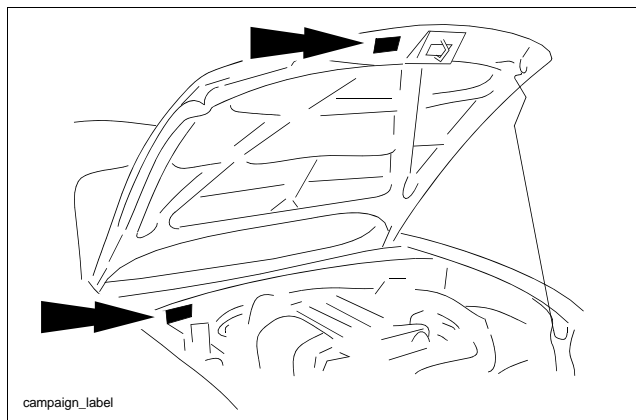
### RETAIL VEHICLES:

When an applicable retail vehicle is brought into the dealer for any type of repair or scheduled maintenance, perform an eMDCS Warranty Vehicle Inspection and check the status of MSP23. If status of MSP23 is "OPEN" inspect and repair if necessary, the vehicle according to the procedures contained in this service bulletin.

**VEHICLE INSPECTION PROCEDURE**

1. Verify the vehicle is within the following VIN range and produced between Oct. 7, 2008 through Apr. 23, 2009:
  - 2010 Mazda3  
 VIN Range: JM1BL\*\*\*\*A1 100120 - 152216
    - If the vehicle is within the above VIN range, and produced between Oct. 7, 2008 through Apr. 23, 2009, proceed to Step 2.
    - If the vehicle is not within the above VIN ranges, return the vehicle to the customer or inventory.
2. Perform a Warranty Vehicle Inquiry using your eMDCS System and inspect the vehicle for a Campaign Label **MSP23** attached either to the vehicle's bulkhead or to the vehicle's hood. Refer to eMDCS System - Warranty Vehicle Inquiry Results table below.

**NOTE:** Verify the campaign number as the vehicle may have multiple labels.



**eMDCS System - Warranty Vehicle Inquiry Results**

<b>If eMDCS displays:</b>	<b>Campaign Label is:</b>	<b>Action Required:</b>
"Campaign: MSP23 Open"	Present	Contact the Mazda Corporate Dealer Assistance Group at (877) 727-6626 to update vehicle history
	Not present	Proceed to "REPAIR PROCEDURE"
"Campaign: MSP23 Closed"	Present	Return vehicle to inventory or customer
	Not present	Complete a label and apply it to vehicle's hood
"Campaign: MSP23 Open" or "Closed" is not displayed	Does not apply	Campaign does not apply to this vehicle. Return the vehicle to inventory or customer

## REPAIR PROCEDURE

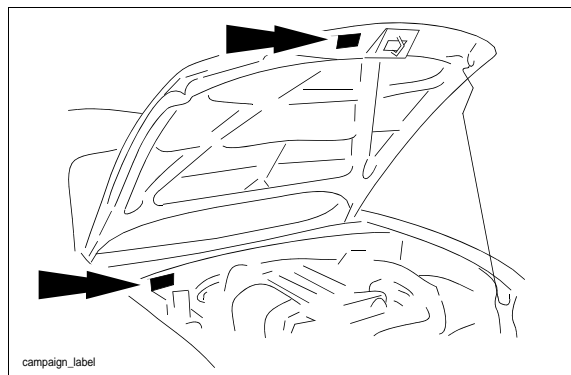
1. Verify customer concern.
2. Using IDS 60.10 or later software, reprogram the PCM to the latest calibration (refer to Calibration Information table) by following the Module Reprogramming procedure.

### NOTE:

- Always update the IDS tool first, then follow on-screen instructions to download the needed calibration file for PCM reprogramming.
  - It is not necessary to remove any fuses or relays during PCM reprogramming when the IDS screen prompts you to do so. You may accidentally stop power to one of the PCM terminals and cause the PCM to be blanked, or you may receive error messages during the IDS reprogramming procedure.
  - IDS shows the calibration part numbers after programming the PCM.
  - Please be aware that PCM calibration part numbers and file names listed in any Service Bulletin may change due to future releases of IDS software, and additional revisions made to those calibrations for service related concerns.
  - When reprogramming a PCM, IDS will always display the latest calibration P/N available for that vehicle. If any calibration has been revised/updated to contain new information for a new service concern/issue, it will also contain all previously released calibrations.
  - When performing this procedure, we recommend that a battery charger be installed on the vehicle battery and turned ON to a maximum charge of no more than 20 AMPS to keep the vehicle battery up to capacity. If you exceed 20 AMPS, it could damage the VCM.
3. After performing the PCM reprogramming procedure, Clear all CMDTC,s and verify the repair by starting the engine and making sure there are no MIL illumination or abnormal warning lights present.

### NOTE:

- If any DTCs should remain after performing DTC erase, diagnose the DTCs according to the appropriate Troubleshooting section of the Workshop Manual.
  - After PCM reprogramming, it is no longer necessary to road test the vehicle to relearn KAM (Keep Alive Memory).
4. Fill out a blue "Campaign Label" (9999-95-065A-06) with the Campaign No: "MSP23", your dealer code, today's date, and affix it to the vehicle's bulkhead or hood.



5. Return the vehicle to the customer.

## CALIBRATION INFORMATION

### 2.0L Engine

Specification	Transmission	File Name
Fed	MT	LF8J-188K2-C
	AT	LF8M-188K2-C
Calif	MT	LF8K-188K2-C
	AT	LF3T-188K2-C
Mexico	MT	LF8L-188K2-C
	AT	LF8P-188K2-C

### 2.5L Engine

Specification	Transmission	File Name
Fed	MT	L538-188K2-D
	AT	L539-188K2-D
Calif	MT	L540-188K2-D
	AT	L541-188K2-D
Mexico	MT	L545-188K2-C
	AT	L546-188K2-C

## 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. **After this period, a DSM authorization is required.**
- Additional diagnostic time cannot be claimed for this repair.

	PCM Reprogramming (when MSP23 and Recall 5409D are performed at the same time)	PCM Reprogramming (without Recall 5409D)
Warranty Type	A	A
Symptom Code	99	99
Damage Code	99	99
Process Number	A0910B	A0910B
Part Number Main Cause	7777-SP-E15	7777-SP-E15
Quantity	0	0
Operation Number / Labor Hours	XXE1TAFX / 0.2 Hrs.	XXE1TBFX / 0.3 Hrs.