

<b>Subject:</b>  MIL COMES ON WITH DTC P2407 (LDP SENSOR ERRATIC)	<b>Bulletin No:</b> 01-037/06
	<b>Last Issued:</b> 11/7/2006

## BULLETIN NOTE

This bulletin supersedes the previous bulletin issued on 09/01/06. The APPLICABLE MODEL(S)/VINS has been revised.

## APPLICABLE MODEL(S)/VINS

2006-2007 Mazda5 vehicles with VINs lower than JM1CR\*\*\*\* \*\* 133076 (produced before July 29, 2006)

2006-2007 MX-5 vehicles with VINs lower than JM1 NC\*\*\*\* \*\* 126015 (produced before August 7, 2006)

2006 Mazdaspeed6 vehicles with VINs lower than JM1GG\*\*\*\* \*\* 108267 (produced before August 2, 2006)

2007 CX-7 vehicles with VINs lower than JM3ER\*\*\*\* \*\* 129357 (produced before August 3, 2006)

## DESCRIPTION

Some vehicles may experience MIL comes on with DTC P2407 in memory. This symptom is due to abnormal current in the LDP sensor which exceeds the threshold of DTC P2407. The design specification does not meet the market need, so the PCM software has been changed to resolve the concern.

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

## REPAIR PROCEDURE

1. Reboot the PDS/IDS to clear memory before reprogramming.
2. Using PDS/IDS 44.4 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 PDS/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 PDS/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 PDS/IDS reprogramming procedure.
- PDS/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 PDS/IDS software, and additional revisions made to those calibrations for service related concerns.
- When reprogramming a PCM, PDS/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, verify the repair by starting the engine and making sure there are no MIL illumination or abnormal warning lights present.

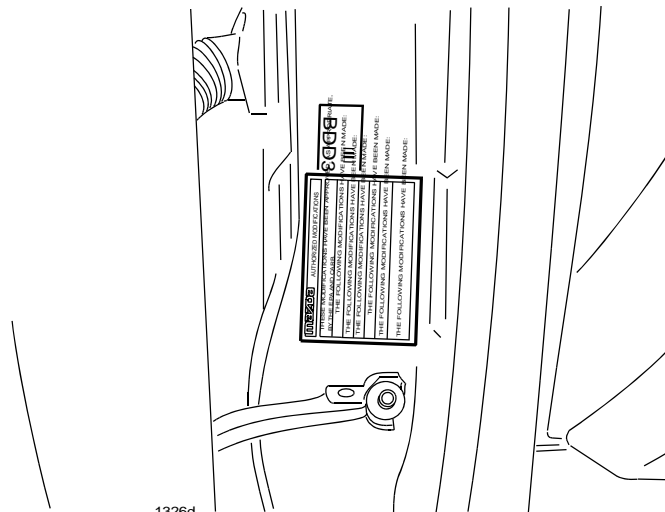
**NOTE:**

- 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 an “Authorized Modifications” label (P/N 9999-95-AMDC-97) with the new PCM calibration information, your dealer code, and today’s date.

The image shows a rectangular label form with a double-line border. At the top left is the Mazda logo. To its right, the text reads "AUTHORIZED MODIFICATIONS". Below this, there are three lines of text: "THESE MODIFICATIONS HAVE BEEN APPROVED, AS APPROVED BY THE EPA AND CARB.", "THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:", and a large rectangular area with a dashed border for handwritten notes.

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5. Place the “Authorized Modifications” label on the “A” pillar below the tear tag in the driver door jamb.



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## CALIBRATION INFORMATION

### Mazda5

Specification	New PCM Calibration Part Number	File Name
M/T (Fed)	L3P5-18881J	SW-L3P5EJ000
A/T (Fed)	L3P6-18881K	SW-L3P6EK000
M/T (CA)	L3P7-18881J	SW-L3P7EJ000
A/T (CA)	L3P8-18881K	SW-L3P8EK000
M/T (Mexico)	L35A-18881D	SW-L35AED000
A/T (Mexico)	L35B-18881D	SW-L35BED000

### MX-5

Specification	New PCM Calibration Part Number	File Name
5 M/T (Fed)	LFG3-18881K	SW-LFG3EK000
6 M/T (Fed)	LFG2-18881K	SW-LFG2EK000
A/T (Fed)	LFG1-18881L	SW-LFG1EL000
5 M/T (CA)	LFN5-18881K	SW-LFN5EK000
6 M/T (CA)	LFN4-18881K	SW-LFN4EK000
A/T (CA)	LFN3-18881L	SW-LFN3EL000
6 M/T (Mexico)	LF3D-18881D	SW-LF3DED000

### Mazdaspeed6

Specification	New PCM Calibration Part Number	File Name
M/T (Fed)	L38K-18881B	SW-L38KEB000
M/T (CA)	L38J-18881B	SW-L38JEB000

### CX-7

Specification	New PCM Calibration Part Number	File Name
A/T 2WD (Fed)	L33N-18881J	SW-L33NEJ000
A/T 4WD (Fed)	L33P-18881J	SW-L33PEJ000
A/T 2WD (CA)	L33L-18881J	SW-L33LEJ000
A/T 4WD (CA)	L33M-18881J	SW-L33MEJ000

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**NOTE:** The PCM Calibration Part Numbers listed above are provided for PCM reprogramming purposes only. These are not necessarily the same Mazda part numbers used to order an actual PCM through the Mazda Parts System. It is not necessary to order a PCM as part of this repair procedure.

## WARRANTY INFORMATION

**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair. Refer to the Warranty Wizard for warranty term information.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Part Number Main Cause	5555-06-030A
Quantity	0
Operation Number / Labor Hours	XXB416FX / 0.3 Hrs.