

Subject: MIL ILLUMINATION WITH DTC P0128	Bulletin No: 01-041/07
	Last Issued: 10/04/2007

BULLETIN NOTE

This bulletin supersedes the previous bulletin issued on 10/03/07. The APPLICABLE MODEL(S)/VINS has been revised.

APPLICABLE MODEL(S)/VINS

2004-2005 Mazda3 vehicles

2006-2007 Mazda5 vehicles with VINs lower than JM1CR**** ** 160549 (produced before July 1, 2007)

DESCRIPTION

Some vehicles may experience the MIL illumination with DTC P0128 (Coolant Thermostat Stuck Open) stored in memory without any problem on the ECT sensor and the IAT sensor. For example, this symptom may happen when driving after 1 to 1-1/2 minutes of idling with the heater and defroster ON after a cold start in cold conditions about 1 °C (33-35 °F). This condition may be caused by improper PCM calibration.

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

REPAIR PROCEDURE

1. Reboot the PDS/IDS PTU to clear memory before reprogramming.
2. Using PDS/IDS 50.2 or later software, reprogram the PCM to the latest calibration (refer to "Calibration Information" table) by following the "Module Reprogramming" procedure.

NOTE:

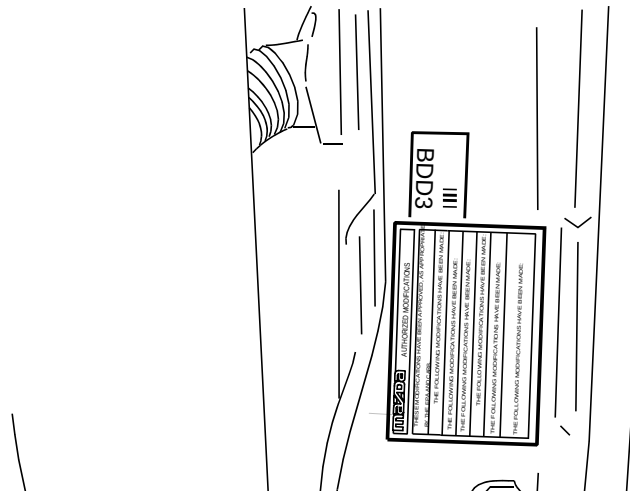
- Always update the PDS/IDS tool first, then follow on-screen instructions to download the needed calibration file for PCM reprogramming.
- It is not necessary to remove any fuses or relays during PCM reprogramming when the PDS/IDS screen prompts you to do so. You may accidentally stop power to one of 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. For Mazda3 vehicles built prior to February 1, 2004 (VIN: JM1BK **** ** 149352), perform the following additional work. Allow vehicle to cool down overnight. Drive vehicle and check if MIL (DTC P0128) comes ON.
 - If the MIL still comes ON with DTC P0128, replace thermostat with a modified part according to Workshop Manual (section 01-12 THERMOSTAT REMOVAL/INSTALLATION).
 5. 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.

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



CALIBRATION INFORMATION

Mazda3

Engine	Transmission	Spec.	Model Year	New PCM Calibration Part Number	File Name
2.3L	M/T	Fed	2004	L3S2-18-881C	SW-L3S2EC020
		Fed	2005	L3S2-18-881C	SW-L3S2EC020
		Calif	2004	L3S7-18-881C	SW-L3S7EC020
		Calif	2005	L3S7-18-881C	SW-L3S7EC020
	A/T	Fed	2004	L3S3-18-881D	SW-L3S3ED030
		Fed	2005	L3S3-18-881D	SW-L3S3ED030
		Calif	2004	L3S8-18-881D	SW-L3S8ED030
		Calif	2005	L3S8-18-881D	SW-L3S8ED030

Engine	Transmission	Spec.	Model Year	New PCM Calibration Part Number	File Name
2.0L	M/T	Fed	2004	LFG5-18-881C	SW-LFG5EC020
		Fed	2005	LFG5-18-881C	SW-LFG5EC020
		Calif	2004	LFH7-18-881C	SW-LFH7EC000
		Calif	2005	LFH7-18-881C	SW-LFH7EC000
	A/T	Fed	2004	LFG6-18-881D	SW-LFG6ED030
		Fed	2005	LFG6-18-881D	SW-LFG6ED030
		Calif	2004	LFH8-18-881D	SW-LFH8ED000
		Calif	2005	LFH8-18-881D	SW-LFH8ED000

Mazda5

Engine	Transmission	Spec.	New PCM Calibration Part Number	File Name
2.3L	M/T	Fed	L3P5-18-881M	SW-L3P5EM000
		Calif	L3P7-18-881M	SW-L3P7EM000
		Mexico	L35A-18-881G	SW-L35AEG000
	A/T	Fed	L3P6-18-881N	SW-L3P6EN000
		Calif	L3P8-18-881N	SW-L3P8EN000
		Mexico	L35B-18-881G	SW-L35BEG000

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.

PART(S) INFORMATION

Part Number	Description	Qty.	Note
LF50-15-170C	Thermostat	1	Mazda3 only

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	5555-05-026A
Quantity	0
Operation Number / Labor Hours:	Mazda3: XXB224FX / 0.3 Hrs. (Reprogramming Only) Mazda5: XXB224FX / 0.3 Hrs. (Reprogramming Only)

NOTE: If thermostat is replaced, add Labor Operation Number E0102XRX / 1.1 Hrs.