

Subject: MT - MIL ON - P0507 SET	Bulletin No: 01-036/08
	Last Issued: 7/11/2008

APPLICABLE MODEL(S)/VINS

2006-2008 MX-5 vehicles with VINs lower than JM1 NC**** ** 152056 (produced before March 25, 2008)

DESCRIPTION

Some vehicles may experience the MIL on with DTC P0507 set.

- P0507 - Idle Air Control System RPM Higher Than Expected

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

REPAIR PROCEDURE

1. Reboot the IDS to clear memory before reprogramming.
2. Using IDS B54.2 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 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, 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).

CALIBRATION INFORMATION

2006-2007

Spec.	Transmission (MT)	File Name
Federal	5-Speed	SW-LFG3EN000
	6-Speed w/o Oil cooler	SW-LFZZEA000
	6-Speed w/Oil Cooler	SW-LFG2EP000
California	5-Speed	SW-LFN5EN000
	6-Speed w/o Oil cooler	SW-LSYAEA000
	6-Speed w/Oil Cooler	SW-LFN4EP000
Mexico	6-Speed	SW-LF3DEG000

2008

Spec.	Transmission (MT)	File Name
Federal	5-Speed	SW-LF5AEG000
	6-Speed	SW-LF4XEG000
California	5-Speed	SW-LF5DEG000
	6-Speed	SW-LF5CEG000
Mexico	6-Speed	SW-LF5EEG000

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.
- This repair will be covered under Mazda's New Vehicle Limited Warranty term for an Emissions Component.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Part Number Main Cause	5555-RP-PCM
Quantity	0
Operation Number / Labor Hours	XXD2EXFX / 0.3 Hrs.