

<b>Subject:</b>  <b>INSUFFICIENT A/C COOLING IN HOT WEATHER</b>	<b>Bulletin No:</b> 07-006/11
	<b>Last Issued:</b> 08/08/2011

## BULLETIN NOTE

- This bulletin supersedes the previous bulletin 07-006/11, issued on 08/03/2011 and 07/27/2011. The REPAIR PROCEDURE and WARRANTY INFORMATION have been revised.
- Changes are noted below beside the change bar.

## APPLICABLE MODEL(S)/VINS

2011 CX-9 vehicles with VINs JM3TB\*\*\*\*B0 300004 - 333120 (produced from August 31, 2010 to July 27, 2011)

## DESCRIPTION

Some vehicles may exhibit insufficient cooling performance from the air conditioning (A/C) system. It is possible that the powertrain control module (PCM) may improperly repeat the ON/OFF action of the A/C compressor clutch and may improperly control the fan control module, causing reduced cooling performance. This condition occurs in extremely hot ambient conditions (at or above 102 degrees F (38.9 degrees C)) and in any of the following cases:

- When the engine is idling over 10 minutes (time depends on ambient temperature).
- When the vehicle is stopped at a traffic light.
- When driving in stop-and-go traffic.

## REPAIR PROCEDURE

- Verify customer concern.
- Perform a Warranty Vehicle Inquiry using your eMDCS System. Refer to eMDCS System - Warranty Vehicle Inquiry Results table below.

### eMDCS System - Warranty Vehicle Inquiry Results

If eMDCS displays:	Action Required:
"Campaign: MSP33 Open"	This bulletin does not apply, refer to MSP33 07-007/11
"Campaign: MSP33 Closed"	This bulletin does not apply, refer to MS3 online or Workshop Manual (section 07-03 NO.9 NO COOL AIR FROM FRONT/REAR VENTS)
"Campaign: MSP33 Open" or "Closed" is <u>not</u> displayed	Proceed to Step 3

3. Using IDS 73.05 for IDS version 73 or later software and IDS 74.01 for IDS version 74 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.

4. After performing the PCM reprogramming procedure, Clear all CMDTCs 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).

5. Return the vehicle to the customer.

**CALIBRATION INFORMATION**

Specification	Vehicle Specification	New PCM Calibration
US Federal / Mexico	FWD - w/o Towing	B50A-12A650-FF
US Federal / Mexico	FWD - w/ Towing	B50A-12A650-DF
US Federal / Mexico	AWD - w/ Towing	B50A-12A650-BF
California Emissions	FWD - w/o Towing	B50A-12A650-EF
California Emissions	FWD - w/ Towing	B50A-12A650-CF
California Emissions	AWD - w/ Towing	B50A-12A650-AF

## 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 Federal Emission Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

	PCM Reprogramming
Warranty Type	A
Symptom Code	59
Damage Code	9W
Part Number Main Cause	5555-RP-PCM
Quantity	0
Operation Number / Labor Hours	XXG35XFX / 0.3 Hrs.