

Subject: LACK OF POWER DURING HARD ACCELERATION IN COLD WEATHER	Bulletin No: 01-011/15
	Last Issued: 06/02/2015

APPLICABLE MODEL(S)/VINS

2014-2015 Mazda3 2.0L with VINs lower than JM1BM*****267077 (produced before March 30, 2015 - Japan built)

2014-2015 Mazda3 2.0L with VINs lower than 3MZBM*****207478 (produced before April 1, 2015 - Mexico built)

2016 CX-5 2.0L with VINs lower than JM3KE*****656820 (produced before April 8, 2015)

DESCRIPTION

Some vehicles may experience a lack of power during hard acceleration (approx. 6,000 rpm) in cold weather conditions below 32 °F (0 °C). DTCs P0300:00, P0301:00 and/or P0302:00 are stored in memory.

- P0300:00: Random misfire detected
- P0301:00: Cylinder No. 1 misfire detected
- P0302:00: Cylinder No. 2 misfire detected

This is caused by improper control logic of the PCM. The PCM may detect a false misfire under the subject conditions and may fall into fail safe mode. To eliminate this concern, the PCM control logic has been changed.

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

REPAIR PROCEDURE

1. Verify customer concern.
2. Reboot the IDS to clear memory before reprogramming.
3. Using IDS 95.04 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.
 - **Start/Stop button vehicles only: DO NOT press the start/stop button during the reprogramming process.**
 - **When performing this procedure, we recommend using the “Power Supply” mode in the Battery Management System to keep the vehicle battery up to capacity. If a different charger is used, make sure it does not exceed 20 AMPS. If it exceeds 20 AMPS, it could damage the VCM.**
4. After performing the PCM reprogramming procedure, clear DTCs.
 5. After clearing DTCs, start the engine and confirm that no warning lights stay on.

NOTE:

- If any DTCs should remain after performing DTC erase, diagnose the DTCs using MS3 online instructions or Workshop Manual section 01-02.
- After PCM reprogramming, it is no longer necessary to road test the vehicle to “relearn” KAM (Keep Alive Memory).

CALIBRATION INFORMATION

2014-2015 Mazda3 2.0L - Japan Built Vehicles (VINs Starting with JM1)			
Engine	Transmission	File Name	Note
Calif. (PZEV)	M/T	PELC-188K2-C	Mitsubishi
		PELD-188K2-C	Denso
	A/T	PELA-188K2-C	Mitsubishi
		PELB-188K2-C	Denso
Calif. (ULEV)	M/T	PE18-188K2-E	Mitsubishi
		PEAA-188K2-E	Denso
	A/T	PE19-188K2-D	Mitsubishi
		PEAB-188K2-D	Denso
Fed.	M/T	PE5J-188K2-E	Mitsubishi
		PEAC-188K2-E	Denso
	A/T	PE5K-188K2-D	Mitsubishi
		PEAD-188K2-D	Denso

2014-2015 Mazda3 2.0L - Mexico Built Vehicles (VINs Starting with 3MZ)

Engine	Transmission	File Name	Note
Calif. (PZEV)	M/T	PELG-188K2-C	Mitsubishi
		PELH-188K2-C	Denso
	A/T	PELE-188K2-C	Mitsubishi
		PELF-188K2-C	Denso
Calif. (ULEV)	M/T	PEDG-188K2-D	Mitsubishi
		PEDL-188K2-D	Denso
	A/T	PEDH-188K2-C	Mitsubishi
		PEDM-188K2-C	Denso
Fed.	M/T	PEDJ-188K2-D	Mitsubishi
		PEDN-188K2-D	Denso
	A/T	PEDK-188K2-C	Mitsubishi
		PEDP-188K2-C	Denso

2016 CX-5 2.0L

Engine	Transmission	Drive	File Name	Memo
Calif	M/T	2WD	PS32-188K2-C	Mitsubishi
			PS39-188K2-C	Denso
	A/T	2WD	PS33-188K2-C	Mitsubishi
			PS40-188K2-C	Denso
		4WD	PS34-188K2-C	Mitsubishi
			PS41-188K2-C	Denso
Fed	M/T	2WD	PS35-188K2-C	Mitsubishi
			PS42-188K2-C	Denso
	A/T	2WD	PS36-188K2-C	Mitsubishi
			PS43-188K2-C	Denso
		4WD	PS37-188K2-C	Mitsubishi
			PS44-188K2-C	Denso

NOTE: It is not necessary to order a PCM part for 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 Fed. Emission Warranty (long term) or Calif. PZEV Emission Warranty, where applicable.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
DTC Code	P0300, P0301 and/or P0302
Part Number Main Cause	5555-RP-PCM
Quantity	0
Operation Number / Labor Hours	XXL4KXFX / 0.3 Hrs. (Reprogramming)