

<b>Subject:</b> <b>CHECK ENGINE LIGHT ON WITH DTC P0300:00, P0301:00, P0302:00, P0303:00 AND/OR P0304:00 AND INCREASED ENGINE OIL LEVEL</b>	<b>Bulletin No:</b> 01-019/14
	<b>Last Issued:</b> 12/12/2014

## APPLICABLE MODEL(S)/VINS

2012-2013 Mazda3 (SKYACTIV 2.0L)

2013 CX-5 (SKYACTIV 2.0L A/T) vehicles with VINs lower than JM3KE\*\*\*\*\*148430 (produced before September 7, 2012)

2013-2015 CX-5 (SKYACTIV 2.0L M/T) vehicles with VINs lower than JM3KE\*\*\*\*\*552473 (produced before November 12, 2014)

## DESCRIPTION

Some vehicles may experience the Check Engine Light ON with DTC P0300:00, P0301:00, P0302:00, P0303:00 and/or P0304:00 stored in memory and accompanied with an increased engine oil level.

P0300:00: Random misfire detected

P0301:00: Cylinder No.1 misfire detected

P0302:00: Cylinder No.2 misfire detected

P0303:00: Cylinder No.3 misfire detected

P0304:00: Cylinder No.4 misfire detected

This is caused by improper control logic of the PCM. In cold weather below 14 °F (-10 °C) with repeated short time operation, excess fuel injected in the cylinders may accumulate in the crank case and result in increased oil level and misfire.

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

## REPAIR PROCEDURE

1. Verify engine oil is overfilled with gasoline.
2. Replace the engine oil.

**NOTE:** Oil filter is not covered under this warranty repair.

3. Reboot the IDS to clear memory before reprogramming.

- Using IDS 93.02 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 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.**

- After performing the PCM reprogramming procedure, verify the repair by starting the engine and making sure there is no Check Engine Light ON or abnormal warning lights present.

**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

Mazda3

Engine	Transmission	File Name
Calif (PZEV)	M/T	PUYG-188K2-A
	A/T	PUYH-188K2
Calif (ULEV)	M/T	PSZG-188K2-C
	A/T	PSZH-188K2-C
Fed	M/T	PSZJ-188K2-C
	A/T	PSZK-188K2-C

CX-5

Engine	Transmission	Drive	File Name	Memo
Calif	M/T	2WD	PE01-188K2-M	Mitsubishi
			PE1G-188K2-L	Denso
	A/T	2WD	PE02-188K2-L	Mitsubishi
			PE1H-188K2-K	Denso
		4WD	PE1B-188K2-L	Mitsubishi
			PE1K-188K2-K	Denso
Fed	M/T	2WD	PE1C-188K2-M	Mitsubishi
			PE1L-188K2-L	Denso
	A/T	2WD	PE1D-188K2-L	Mitsubishi
			PE1M-188K2-K	Denso
		4WD	PE1F-188K2-L	Mitsubishi
			PE1P-188K2-K	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/ULEV Emission Warranty.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
DTC Code	P0300, P0301, P0302, P0303 or P0304
Part Number Main Cause	5555 RP PCM
Quantity	0
Operation Number / Labor Hours	XXKBLXFX / 0.6 Hrs. (Oil change and reprogramming)

**NOTE:** The oil filter is not covered under this TSB. Claim the engine oil (4.2 US qt {4.0 L, 3.5 Imp qt}) as a related part.