

<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> 01-005/15
	<b>Last Issued:</b> 06/19/2015

## BULLETIN NOTE

- This bulletin supersedes the previous bulletins 01-005/15 issued on 04/08/15 and 01-019/14 issued on 12/12/14. The APPLICABLE MODEL(S)/VINS and CALIBRATION INFORMATION have been revised.
- Changes are noted below in Red beside the change bar.

## APPLICABLE MODEL(S)/VINS

2012-2013 Mazda3 (SKYACTIV 2.0L)

2013-2015 CX-5 (SKYACTIV 2.0L A/T) vehicles with VINs lower than JM3KE\*\*\*\*\*554553 (produced before November 21, 2014)

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 level is increased and diluted with gasoline.
  - If the oil is diluted with gasoline, go to step 2.
  - If the oil is not diluted with gasoline, this Service Information is not applicable. Perform MS3 online or Workshop Manual Troubleshooting.
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 **95.05** 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.**

- After performing the PCM reprogramming procedure, clear DTCs.
- 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

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

2013-15 CX-5

Engine	Transmission	Drive	File Name	Memo
Calif	M/T	2WD	PE01-188K2-M	Mitsubishi
			PE1G-188K2-L	Denso
Fed		2WD	PE1C-188K2-M	Mitsubishi
			PE1L-188K2-L	Denso

2013 CX-5

Engine	Transmission	Drive	File Name	Memo
Calif	A/T	2WD	PE02-188K2-L	Mitsubishi
			PE1H-188K2-K	Denso
		4WD	PE1B-188K2-L	Mitsubishi
			PE1K-188K2-K	Denso
Fed		2WD	PE1D-188K2-L	Mitsubishi
			PE1M-188K2-K	Denso
		4WD	PE1F-188K2-L	Mitsubishi
			PE1P-188K2-K	Denso

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Engine	Transmission	Drive	File Name	Memo
Calif	A/T	2WD	PUYR-188K2-B	Mitsubishi
			PUYX-188K2-B	Denso
		4WD	PUYS-188K2-B	Mitsubishi
			PUYZ-188K2-B	Denso
Fed		2WD	PUYT-188K2-B	Mitsubishi
			PUZ0-188K2-B	Denso
		4WD	PUYW-188K2-B	Mitsubishi
			PUZ1-188K2-B	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.
- 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.