

<b>Subject:</b> <b>RATTLE NOISE AT IDLE SPEED DURING ENGINE WARM UP</b>	<b>Bulletin No:</b> 01-004/12
	<b>Last Issued:</b> 01/18/2012

## APPLICABLE MODEL(S)/VINS

2012 Mazda3 with SKYACTIV-G 2.0L with VINs lower than JM1BL\*\*\*\*\*587945 (produced before December 23, 2011)

## DESCRIPTION

A rattle noise may be heard inside or outside the vehicle only during engine warm up. This can be caused by several different factors, but is not considered a defect. To reduce this noise level, the PCM can be reprogrammed to shift the fast idle speed.

If a customer complains about the noise, explain to them that the noise is not harmful to the engine. If needed, the following repair procedure can be used to help reduce the noise level.

## REPAIR PROCEDURE

1. Verify that the rattle can only be heard from the engine at fast idle before the engine is warmed up.
2. Reboot the IDS to clear memory before reprogramming.
3. Using IDS 76.04 or later software, reprogram the PCM to the latest calibration (refer to "Calibration Information" table) by following the "Module Reprogramming" procedure. This new calibration is not included in the VCM 2011.11 DVD.

### 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. Verify repair. If the noise is still present, contact the Mazda Technical Hotline.

## CALIBRATION INFORMATION

Year	Engine	Transmission	Specification	File Name
2012	2.0L	M/T	Fed	PE2G-18881-L
			Cal	PE07-18881-M
		A/T	Fed	PE2K-18881-K
			Cal	PE08-18881-L

**NOTE:** It is not necessary to order a PCM 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 Federal Emissions Warranty. It will also be covered under CA Emissions or PZEV (Partial Zero Emission) Warranty, where applicable.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	82
Damage Code	9W
Part Number Main Cause	5555-RP-PCM
Quantity	0
Operation Number / Labor Hours	XXH19XFX / 0.3 Hrs.