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Subject: LONG CRANKING AND ROUGH IDLE AFTER COLD START AT LOW AMBIENT TEMPERATURE	Bulletin No: 01-022/13
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APPLICABLE MODEL(S)/VINS

2013-2014 CX-5 vehicles with VINs lower than JM3KE*****335496 (produced March 25, 2013)

DESCRIPTION

Some vehicles may experience the following symptoms at ambient temperatures between approx. 14 to 25 degrees F (-4 to -10 degrees C) after a cold start:

- Unusually long cranking is needed to start the engine
- Engine immediately stalls after start up; can be re-started.
- Rough idle

If fuels containing heavy components (i.e. summer fuel) is used during the cold season, the A/F ratio may become lean due to low vaporization. This may cause the engine to mis-fire. 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. Reboot the IDS to clear memory before reprogramming.
2. Using IDS 85.05 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.
- **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.**

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical—including photocopying and recording and the use of any kind of information storage and retrieval system—without permission in writing.

- After performing the PCM reprogramming procedure, 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 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

			File Name	
Transmission	Drive	Specification	Mitsubishi	Denso
M/T	2WD	Calif.	PE01-188K2-K	PE1G-188K2-J
A/T	2WD		PE02-188K2-J	PE1H-188K2-H
	4WD		PE1B-188K2-J	PE1K-188K2-H
M/T	2WD	Fed.	PE1C-188K2-K	PE1L-188K2-J
A/T	2WD		PE1D-188K2-J	PE1M-188K2-H
	4WD		PE1F-188K2-J	PE1P-188K2-H

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 the Federal Emissions Warranty (long term).
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	02
Damage Code	9W
Part Number Main Cause	5555-RP-PCM
Quantity	0
Operation Number / Labor Hours	XXJ9VXFX / 0.3 Hrs.