



**NUMBER:** 18-020-09

**GROUP:** Vehicle Performance

**DATE:** July 9, 2009

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**THE wiTECH DIAGNOSTIC APPLICATION IS THE PREFERRED METHOD FOR FLASHING ECUs.**

**HELP USING THE wiTECH DIAGNOSTIC APPLICATION FOR FLASHING AN ECU IS AVAILABLE BY SELECTING “HELP” THEN “HELP CONTENTS” AT THE TOP OF THE wiTECH DIAGNOSTIC APPLICATION WINDOW.**

**THE wiTECH SOFTWARE LEVEL MUST BE AT RELEASE 9.05 OR HIGHER TO PERFORM THIS PROCEDURE.**

**StarMOBILE DESKTOP CLIENT or StarSCAN MAY ALSO BE USED TO PERFORM THIS PROCEDURE.**

***SUBJECT:***

Flash: MIL Illumination And/Or MDS Driveability Improvements

***OVERVIEW:***

This bulletin involves selectively erasing and reprogramming the Powertrain Control Module (PCM) with new software.

***MODELS:***

2009	(WK)	Grand Cherokee
2009	(WH)	Grand Cherokee (International Markets)
2009	(XK)	Commander
2009	(XH)	Commander (International Markets)

**NOTE: This bulletin applies to 2009 vehicles equipped with a 5.7L engine (Sales code EZD or EZH).**

**SYMPTOM/CONDITION:**

The customer may experience:

- a. A MIL illumination for the following Diagnostic Trouble Codes (DTC), refer to the **MIL Illumination** section.
- b. The vehicle has a harsh engagement or has a buck/jerking feeling, refer to the **Driveability Improvement** section.

Upon further investigation the Technician may also find that P1521 - Incorrect Engine Oil Type has been set on EZH engines only.

**MIL Illumination:**

1. P0016 - Crankshaft/Camshaft Timing Misalignment - Bank 1 Sensor 1 (EZD engines)
2. P0524 - MDS Oil pressure rationality (EZD engines)
3. P2610 - PCM Internal Engine Off Timer Performance (EZD and EZH engines)

**Driveability Improvement for EZD and EZH engines:**

MDS transitions have been enhanced from V8 to V4 and V4 to V8 at all ambient temperatures in all operating ranges. These enhancements were made to make the transition less noticeable by the customer.

**DIAGNOSIS:**

Using a Scan Tool (wiTECH™ or StarSCAN®) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTC's are present other than the ones listed above record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the above condition is present, perform the Repair Procedure.

**PARTS REQUIRED:**

Qty.	Part No.	Description
1	04275086AB	Label, Authorized Modification

**REPAIR PROCEDURE:**

**NOTE: If this flash process is interrupted/aborted, the flash should be restarted.**

1. Reprogram the PCM with the latest software. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 8 - Electrical > Electronic Control Modules - Service Information > Module - Powertrain Control > Standard Procedures > PCM/ECM Programming - Gas. **After PCM reprogramming, the following must be performed:**
  - a. Clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the tech to clear them.
2. Type the necessary information on the "Authorized Modification Label" and attach it near the VECI label.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

<b>Labor Operation No:</b>	<b>Description</b>	<b>Amount</b>
18-19-06-F3	Module, Powertrain Control (PCM) - Reprogram (B)	0.2 Hrs.
<b>International Related Operation</b>		
18-00-00-WT	StarSCAN/StarMOBILE (International) (B)	AT

**FAILURE CODE:**

FM	Flash Module
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