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GROUP: Vehicle Performance

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THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 18-021-09, DATED JULY 11, 2009, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE THE ADDITION OF SYMPTOMS.**

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 10.01 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 And/Or Shift Improvements

OVERVIEW:

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

MODELS:

2009	(LC)	Challenger
2009	(LE)	300C/300 Touring (International Markets)
2009	(LX)	300/300C / Magnum / Charger

NOTE: This bulletin applies to LC/LE/LX vehicles equipped with a 5.7L engine and automatic transmission (Sales code EZD or EZH or EZC and DGJ) or LC vehicles equipped with a 5.7L engine and six speed manual transmission (Sales code EZC and DEC).



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SYMPTOM/CONDITION:

The customers may experience:

- a. A MIL illumination for the following Diagnostic Trouble Codes (DTC), listed in the **MIL Illumination** section below.
- b. The vehicle has a harsh engagement or has a buck/jerking feeling, 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.
- c. Drone or groan sound while the engine transitions from V4 to V8 operation (EZD and EZH engines)
- d. **Additional low speed or garage shift improvements (EZD and EZH engines)**
- e. RPM increase after depressing the clutch (EZE engines)
- f. Improved engine temperature control in desert climates (EZD, EZH and EZE engines)
- g. **Improved autostick up/down shifting (EZD, EZH and EZE engines)**
- h. **1-2 and 2-3 upshifts (EZD, EZH and EZE engines)**
- i. **Harsh 2-1 down shift (LC vehicles only)**
- j. **Upshift bump. This condition occurs after a moderate to heavy acceleration, followed by the driver lightly or completely lifting their foot off the accelerator. This bump can be felt when the above conditions are met for the 1-2, 2-3 or 3-4 upshifts (EZD, EZH and EZE engines)**

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 or EZE engines)
2. P0420 - Catalyst Efficiency (Bank 1) (EZD engines)
3. P0430 - Catalyst Efficiency (Bank 2) (EZD engines)
4. P2096 - Downstream Fuel Trim System 1 Lean (EZD and EZE engines)
5. P2098 - Downstream Fuel Trim System 2 Lean (EZD and EZE engines)
6. P2097 - Downstream Fuel Trim System 1 Rich (EZD and EZE engines)
7. P2099 - Downstream Fuel Trim System 2 Rich (EZD and EZE engines)
8. P0524 - MDS Oil pressure rationality (EZD engines)
9. P2610 - PCM Internal Engine Off Timer Performance (EZD, EZH and EZE engines)
10. P0128 - Thermostat Rationality (EZD Engines)
11. P0501 - Vehicle Speed Sensor 1 Performance (EZE engines)
12. **P0171 - Fuel System 1/1 Lean (EZD, EZH and EZE engines)**
13. **P0174 - Fuel System 2/1 Lean (EZD, EZH and EZE engines)**

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:

Labor Operation No:	Description	Amount
18-19-06-F5	Module, Powertrain Control (PCM) - Reprogram (C)	0.2 Hrs.
International Related Operation		
18-00-00-WT	StarSCAN/StarMOBILE (International) (C)	0.2 Hrs.

FAILURE CODE:

FM	Flash Module
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