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**GROUP:** Vehicle Performance

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-103-15, DATED DECEMBER 11, 2015, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE AN ADDITIONAL MODEL YEAR, SALES CODE OPTIONS, UPDATED SYMPTOM/CONDITION IMPROVEMENTS AND NEW LABOR OP.**

**FOR HELP WITH USING wiTECH FOR ECU FLASH REPROGRAMMING, CLICK ON THE APPLICATION'S "HELP" TAB.**

**THE wiTECH SOFTWARE IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.**

**SUBJECT:**

Flash: Powertrain Diagnostic And System Enhancements

**OVERVIEW:**

This bulletin involves reprogramming the Powertrain Control Module (PCM) with updated software.

**MODELS:**

**2010** - 2011	(ND)	Dodge Dakota
2011	(DD)	RAM 3500 Cab Chassis
2011	(DJ)	RAM Truck 2500
2010 - 2011	(DS)	RAM Truck 1500

**NOTE: \*\*This Service Bulletin also applies to ND vehicles equipped with a 3.7L or 4.7L engine (Sales Code EKG or EVE), with a 545RFE or 42RLE transmission (Sales Code DGQ or DGV) built before February 01, 2011 (MDH 0201XX).\*\***

**NOTE: This Service Bulletin applies to DS vehicles equipped with a 3.7L, 4.7L or 5.7L engine (Sales Code EKG, EVE, or EZH).**

**NOTE: This Service Bulletin also applies to DD and DJ vehicles equipped with a \*\*5.7L engine (Sales Code EZC) and 545RFE (Sales Code DGQ)\*\* built before February 01, 2011 (MDH 0201XX).**

**SYMPTOM/CONDITION:**

A small number of customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following Diagnostic Trouble Codes (DTCs):

**MIL Illumination**

- P2096 - Downstream Fuel Trim System 1 Lean (5.7L Engines).
- P2097 - Downstream Fuel Trim System 1 Rich (5.7L Engines).
- P2098 - Downstream Fuel Trim System 2 Lean (5.7L Engines).
- P2099 - Downstream Fuel Trim System 2 Rich (5.7L Engines).

**Drivability Improvements:**

- \*\*MIL Lamp without DTC Active - Permanent Fault Code Issue (fix permanent fault code retention).
- ASD Relay (to improve fuel pump relay initialization at key on).\*\*
- Fuel pump relay operation at key on.
- Engine seems to lack power at high engine RPMs (5.7L and 4.7L Engines).
- Shudder or shake condition on wide open throttle stab during downshift event (5.7L and 4.7L Engines).
- EVAP Diagnostic Enhancements. This diagnostic routine will be disabled while the vehicle is in decel fuel shut off mode.(3.7L/4.7L Engines only).
- Audible knock sound on WOT launches (DJ/DD 5.7L Engines only).

**Transmission Improvements:**

- High engine RPMs needed before vehicle will upshift from 3rd to 4th. (5.7L and 4.7L Engines).
- Harsh 1st to 2nd gear upshift (5.7L and 4.7L Engines).
- Unexpected or busy downshift while coasting between 72-77 kmh (45-48 mph) (DS 5.7L Engines only).

**DIAGNOSIS:**

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones listed above are present, record the issues on the repair order and repair as necessary before proceeding further with this bulletin.

If the customer describes a symptom/condition listed above or if the technician finds a DTC, perform the Repair Procedure.

**REPAIR PROCEDURE:**

**NOTE: Install a battery charger to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the flash process.**

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

1. Reprogram the PCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
2. Clear any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Skill Category	Amount
**18-19-06-KJ	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair and Performance	0.2 Hrs.**

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 3 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.**

**FAILURE CODE:**

**The dealer must choose which failure code to use. If the customer came in with an issue and if the dealer finds a software update to correct that issue, use failure code CC, for all other use failure code RF.**

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used.
- If an available flash is completed while addressing a different customer concern, failure code RF is to be used.

CC	Customer Concern
RF	Routine Flash