



NUMBER: 18-100-16

GROUP: Vehicle Performance

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THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 18-012-14 REV. A, DATED OCTOBER 01, 2014, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDES UPDATED 2012 DJ SOFTWARE AND LOP.**

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

MODELS:

2013	(DS)	Ram 1500
2012 - 2013	(DJ)	Ram 2500 CNG

NOTE: This bulletin applies to DS vehicles equipped with a 5.7L engine (sales code EZH) and DJ vehicles equipped with a 5.7L CNG engine (sales code EZF).

SYMPTOM/CONDITION:

A small number of customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the Technician may find that the following Diagnostic Trouble Codes have been set:

- ****U0140 - Lost Communication With Body Control Module (BCM) (12 MY DJ only)****
- **P0300 - Multiple Cylinder Misfire.**

NOTE: The P0300 improvement only applies to vehicles using a block heater in ambient temperatures greater than -20°F(-29°C).

- **P2008 - Short Runner Valve (SRV) Control Circuit.**
- **P1004 - Short Runner Valve Control Performance.**
- **P2016 - Intake Manifold Runner Position Sensor Circuit Low.**

- P2017 - Intake Manifold Runner Position Sensor Circuit High.
- P0456 - Evap System Small Leak

Customers may also experience any of the following conditions. **(applies only to vehicles equipped with a CNG engine):**

- Excess gasoline mode operation under normal operating conditions (switching to gasoline mode too often).
- Slight hesitation on initial acceleration when starting in gasoline mode.
- Engine speed fluctuation on first gasoline to CNG mode transition under extremely low ambient temps.

Also software enhancements were made to improve transmission durability.

DIAGNOSIS:

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

If the customer describes the symptom/condition or if the technician finds the DTCs, 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 any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allows them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-MV	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 5 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