



NUMBER: 18-042-15

GROUP: Vehicle Performance

DATE: November 04, 2015

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-004-14 REV. B, DATED APRIL 16, 2014, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE REMOVED BUILD DATE, ADDITIONAL SYMPTOMS, REVISED REPAIR PROCEDURE, LOP AND SKILL LEVEL.**

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

SUBJECT:

Flash: 6.4L Diagnostic And System Improvements

OVERVIEW:

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

MODELS:

2014	(DJ)	Ram 2500
2014	(D2)	Ram 3500 Pickup
2014	(DD)	Ram 3500 Cab Chassis
2014	(DP)	Ram 4500/5500 Cab Chassis

NOTE: **This bulletin applies to all vehicles equipped with a 6.4L engine (sales code ESA or ESB).******

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the Technician may find one or more of the following Diagnostic Trouble Codes (DTCs) have been set:

- ****P0300 - Multiple Cylinder Misfire, cold Idle misfire (DJ,D2 or DD vehicles only).****
- **P030X - Cylinder Misfire (any cylinder) (Additional improvements over the last software update).**
- P04D1 - Cooled EGR Temperature Sensor Circuit High.
- P04D0 - Cooled EGR Temperature Sensor Circuit Low.
- P2504 - Charging System Output High.
- P0441 - Evap Purge System Performance.
- P2066 - Fuel Level Sensor 2 Performance.
- P0401 - EGR System Performance **(DJ/D2 vehicles only).**
- P2096 - Downstream Fuel Trim System 1 Lean **(DD/DP vehicles only).**
- P2098 - Downstream Fuel Trim System 2 Lean **(DD/DP vehicles only).**
- P0740 - TCC Out of Range **(DD vehicles equipped with a DFP automatic transmission).**

Customers may also experience any of the following conditions:

- Slightly elevated idle speed noticed during engine warm-up when in Reverse or Drive and when operating in cold ambient temperatures.
- PTO mobile mode cancels or deactivates when vehicle comes to a stop **(DD/DP vehicles only).**
- Engine cycles in and out of MDS mode too often when operating in PTO stationary mode **(DD/DP vehicles only).**
- PTO stationary mode cancels or deactivates when PTO up-fit equipment loads fluctuate **(DD/DP vehicles only).**

The following powertrain system improvements/enhancements are also included in this software release:

- ****Improve Idle at high altitudes (DJ,D2 or DD vehicles only).**
- Spark knock on vehicle with low octane fuel **(DJ,D2 or DD vehicles only).****
- Operator idle speed control enhancements.
- Raise 4x4 low range minimum engine speed from 725 to 800 RPM.
- Raise minimum engine speed to allow MDS activation in PTO stationary mode **(DD/DP vehicles only).**

NOTE: Some vehicles may have been shipped from the plant with summer blend fuel depending on the build date. Use of this fuel in cold climate regions may result in false misfire detection. Ensure vehicle fuel tank has been filled with local winter blend fuel.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine 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 the symptom/condition listed above or if the technician finds any of 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 available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the "HELP" tab on the upper portion of the wiTECH window, then "HELP CONTENTS." This will open the "Welcome to wiTECH" Help screen where help topics can be selected.**
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-CX	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	8 - Engine 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 the dealer found updated software 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