



NUMBER: 18-052-13

GROUP: Vehicle Performance

DATE: November 27, 2013

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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 14.01 OR HIGHER TO PERFORM THIS PROCEDURE.

SUBJECT:

Flash: Diagnostic and System Improvements

OVERVIEW:

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

MODELS:

2014	(DJ)	Ram Pick Up (2500)
2014	(D2)	Ram Pick Up (3500)

NOTE: This bulletin applies to D2/DJ vehicles equipped with a 6.7L Cummins engine (Sales code ETK).

SYMPTOM/CONDITION:

Several software improvements are available for vehicles equipped with a Cummins 6.7L turbo Diesel.

Prevent Or Reduce Unnecessary Malfunction Indicator Lamp (MIL) Illumination For The Following Transmission Faults. These Faults Are Currently Tripped As A One Trip Fault And Should Have Been A Two Trip Fault:

- P049D - EGR CONTROL POSITION EXCEEDED LEARNING LIMIT
- P226C - TURBOCHARGER BOOST CONTROL "A" SLOW RESPONSE

Improvements To Prevent Or Reduce Unnecessary Malfunction Indicator Lamp (MIL) Illumination For:

- P04DB - CRANKCASE VENTILATION SYSTEM DISCONNECTED
- P1C55 - NOx SENSOR INTERMITTENT - BANK 1 SENSOR 1
- P20EE - SCR NOx CATALYST EFFICIENCY BELOW THRESHOLD - BANK 1
- P2002 - DIESEL PARTICULATE FILTER EFFICIENCY BELOW THRESHOLD
- P0604 - INTERNAL CONTROL MODULE RAM

- P1451 - DIESEL PARTICULATE FILTER SYSTEM PERFORMANCE

Other Updates:

- Doser Thaw Calibrations (with proper doser calibration). Ensure SB 18-032-13 (or later bulletin) is also completed to update Doser Control Unit (DCU)
- I/M OBD II readiness - DTC P2002 improvements help Particulate Matter (PM) Filter monitor group to be set to ready more often
- Grid Heater inhibit operation correction.
- Add engine run time to fuel filter minder.
- Dual alternator WiTech improvements.
- Inducement timer reset procedure improvement.
- DEF refill detection calibration improvement.

DIAGNOSIS:

Using a Scan Tool 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 a customer describes the symptom/condition or if the technician finds the listed DTC, perform the Repair Procedure.

REPAIR PROCEDURE:

NOTE: The wiTECH diagnostic application is the only method for flashing ECU's. 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.

NOTE: If you receive a message at the conclusion of the download stating the that the flash was not successful, the message may be erroneous. If there is an error message after the flash has completed, first confirm that the DTC U1601 is not present and that the P/N has been updated. If so, start the engine to confirm the flash was successful. If DTC U1601 is present, OR the P/N did not update, OR the engine did not start, the flash may have been unsuccessful. Restart the flash update.

1. Flash reprogram the PCM. Help using the wiTECH Diagnostic Application for flashing the control modules is made available through the wiTECH Diagnostic Application. For instructions select the "HELP" tab on upper portion of the wiTECH window, then "HELP CONTENTS". This will open the Welcome to wiTECH Help screen where help topics can be selected. **After PCM reprogramming has completed successfully, the following must be performed:**
2. Power down the PCM (key off) after flash. Automatic Transmission equipped trucks must have key off for 10 minutes. Manual Transmission trucks must have key off for 75 seconds.
3. Perform a Quicklearn procedure on vehicles equipped with a 68RFE Automatic Transmission. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 08 - Electrical > 8E - Electronic Control Modules > MODULE, Transmission Control > Standard Procedure > Quicklearn.

4. 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.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-04-X9	Module, Powertrain Control (PCM) - Reprogram, Quicklearn Transmission (68RFE A/T Only) (2 - Semi-Skilled)	8 - Engine Performance	0.6 Hrs.
18-19-04-Y9	Module, Powertrain Control (PCM) - Reprogram, (Aisin A/T AND M/T) (2 - Semi-Skilled)	8 - Engine Performance	0.4 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 15 minutes. Actual flash download times may be effected by vehicle connection and network capabilities.

FAILURE CODE:

FM	Flash Module
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