



**NUMBER:** 18-013-13

**GROUP:** Vehicle Performance

**DATE:** March 14, 2013

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-005-12, DATED JANUARY 28, 2012, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE DIAGNOSTIC AND SYMPTOM ENHANCEMENTS.**

**THE wiTECH SOFTWARE LEVEL MUST BE AT RELEASE 13.03 OR HIGHER TO PERFORM THIS PROCEDURE.**

***SUBJECT:***

FLASH: Engine Systems and PTO Enhancements

***OVERVIEW:***

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

***MODELS:***

2011	(DD)	Ram Truck (3500 Cab Chassis)
2011	(DP)	Ram Truck (4500/5500 Cab Chassis)

**NOTE: This bulletin applies to vehicles equipped with a Cummins 6.7L engine (sales code ETJ)**

**Owners Manual Supplement Included**

Print the last page of this document and place in the vehicle for customer reference.

***SYMPTOM/CONDITION:***

Cab chassis trucks equipped with a 6.7L Cummins diesel have a number of software improvements available. This latest Service Bulletin (SB) will include:

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

- P0524 - ENGINE OIL PRESSURE SENSOR CIRCUIT LOW
- P051B - CRANKCASE PRESSURE SENSOR CIRCUIT RANGE/PERFORMANCE
- P20EE - SCR NO<sub>x</sub> CATALYST EFFICIENCY BELOW THRESHOLD - BANK 1
- U010E - LOST COMMUNICATION WITH DIESEL EXHAUST FLUID CONTROL UNIT
- P2609 - INTAKE AIR HEATER SYSTEM PERFORMANCE
- P061A - ETC LEVEL 2 TORQUE PERFORMANCE

- P1123 - POWER TAKE OFF SYSTEM MONITOR CONTROL ERROR
- P2579 - TURBOCHARGER SPEED SENSOR CIRCUIT PERFORMANCE
- \*\* P2453 - DIESEL PARTICULATE FILTER PRESSURE SENSOR A CIRCUIT PERFORMANCE \*\*
- \*\* U059F - INVALID DATA RECEIVED FROM NO<sub>x</sub> SENSOR "B" \*\*
- \*\* P20EE - SCR NO<sub>x</sub> CATALYST EFFICIENCY BELOW THRESHOLD - BANK 1

**NOTE: \*\* Vehicles with DTC P20EE set in conditions other than highway speed and/or high load drive cycles should have normal diagnostics performed \*\***

#### **Enhanced Diagnostics For:**

- Variable Geometry Turbocharger.
- Fuel level sensor.
- Misfire without MIL illumination

#### **Other Updates:**

- \*\* Too frequent regeneration readiness improvement \*\*
- \*\* Correct CAC out voltage in WiTech \*\*
- \*\* Add ability to read EMP sensor value in WiTech \*\*
- \*\* Display correct crankcase pressure in WiTech \*\*
- \*\* Display correct EGR position in WiTech \*\*
- \*\* Display correct alternator voltage in WiTech \*\*
- \*\* Improve idle shutdown messages - extra message removed \*\*
- Low Diesel Exhaust Fluid (DEF) level EVIC messaging strategy changes.
- Diesel Exhaust Fluid (DEF) system tampering EVIC messaging strategy changes.
- Oil change monitor - updated for easier reset (same basic procedure, easier to reset).
- Scan tool display updates.
- Enable mobile PTO capability.
- Correct operation of remote PTO.
- Correct EVIC messaging related to DEF level reporting
- System robustness improvements.
- DEF tank level reporting erroneously at high DEF tank level. When DEF tank is overfilled, the EVIC may display low fluid level (20 - 22%).

#### **Owners Manual Supplement Included**

Print the last page of this document and place in the vehicle for customer reference.

#### **DIAGNOSIS:**

Using wiTECH with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTC's are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

If the vehicle operator describes or experiences the Symptom/Condition, perform the Repair Procedure.

#### **PARTS REQUIRED:**

Qty.	Part No.	Description
1	04275086AD	Label, Authorized Modification

#### **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.

**NOTE:** wiTECH may erroneously give an error message at the conclusion of the download stating the that the flash was not successful. 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. Reprogram the ECM with the latest software. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Refer To Group 8 - Electrical > 8E - Electronic Control Modules > MODULE, Engine Control, Diesel > Standard Procedure > PCM/ECM Programming - DIESEL. **After PCM reprogramming has completed successfully, the following must be performed:**
  - a. Power down the PCM (key off) after flash. Trucks must have key off for 75 seconds.
  - b. Clear any DTC's that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTC's after the flash and allow the tech to clear them.

**NOTE:** If a DTC of U010E is set AFTER programming, cycle the key OFF for 75 seconds and then clear the fault even though it may be active.

2. Type the necessary information on the "Authorized Modification Label" and attach it near the VECI label.

#### **OWNERS MANUAL SUPPLEMENT INCLUDED**

Print the last page of this document and place in the Owner's Manual Kit for customer reference.

#### ***POLICY:***

Reimbursable within the provisions of the warranty.

#### ***TIME ALLOWANCE:***

<b>Labor Operation No:</b>	<b>Description</b>	<b>Amount</b>
18-19-04-J9	Module, Engine Control (ECM) - Reprogram, (Skilled - 2)	0.6 Hrs.

#### ***FAILURE CODE:***

FM	Flash Module
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**PLEASE KEEP THIS INFORMATION WITH YOUR CHASSIS CAB USER GUIDE IN YOUR OWNER INFORMATION PACKET**

**UNDERSTANDING YOUR INSTRUMENT PANEL**

**THIS ADDENDUM UPDATES INFORMATION ABOUT ELECTRONIC VEHICLE INFORMATION CENTER IN SECTION 3 OF YOUR OWNER'S MANUAL SUPPLEMENT**

**Diesel Exhaust Fluid (DEF) Warning Messages — Chassis Cab Only**

There are three different messages which are displayed if the vehicle detects that the DEF system has been filled with a fluid other than DEF, has experienced component failures, or when tampering has been detected. The vehicle will not start if the DEF system is not serviced within less than 250 miles (402 km) of a fault being detected. When the DEF system needs to be serviced the following warnings will display:

**Service DEF System - See Dealer**

This message will display when the fault is initially detected, each time the vehicle is started, and periodically during driving. The message will be accompanied by a single chime. We recommend you drive to your nearest authorized dealer and have your vehicle serviced as soon as possible.

**Service DEF System Engine Will Not Start In 200 Miles - See Dealer**

This message will display if the DEF system has not been serviced after the "Service DEF System - See Dealer" message is displayed. This message will continuously display until the mileage counter reaches zero, and will be accompanied by a periodic chime. The message will continue to countdown until it reaches zero unless the vehicle is serviced. We recommend you drive to your nearest authorized dealer and have your vehicle serviced immediately.

**NOTE: Under some circumstances this mileage counter may start with a value of less than 200 miles (322 km). For example, if recurring faults are detected in a time interval of less than 40 hours, the counter may restart at the value where it stopped when a previous fault was temporarily remedied, or at a minimum of 50 miles (80 km).**

**Service DEF System Engine Will Not Start - See Dealer**

This message will continuously display when the mileage counter reaches zero, and will be accompanied by a periodic chime. The engine will not restart after it has been turned off, your vehicle will require towing, see your authorized dealer for service.

**NOTE: When this message is displayed, the engine will no longer start after it has been turned off.**