



NUMBER: 18-079-15

GROUP: Vehicle Performance

DATE: October 31, 2015

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-002-14 REV. C DATED DECEMBER 18, 2014 WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDES ADDITIONAL SYMPTOM/CONDITIONS AND NEW LABOR OPS.**

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 13-083. ALL APPLICABLE SOLD AND UN-SOLD RRT VINs HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

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: 6.7L Diagnostic And System Improvements

OVERVIEW:

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

MODELS:

2014	(DD)	Ram 3500 Cab Chassis
2014	(DP)	Ram 4500/5500 Cab Chassis

NOTE: **This bulletin applies to vehicles built equipped with a 6.7L Cummins Diesel engine (Sales code ETK).******

SYMPTOM/CONDITION:

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

WARNING:There will be a choice between 2 calibrations. One for vehicles that utilize an ammonia sensor and one for vehicles that have had the ammonia sensor removed. Be sure to select the correct software based on vehicle configuration.**

Prevent Or Reduce Malfunction Indicator Lamp (MIL) Illumination When No Defect is Present For The Following Diagnostic Trouble Codes (DTCs). These Faults Have Been Changed From A One Trip Fault To A Two Trip Fault:

P0201 - P0206 - Fuel Injector X Circuit/Open Fault Codes.

P049D - EGR Control Position Exceeding Learning Limit.

Improvements To Prevent Or Reduce Malfunction Indicator Lamp (MIL) Illumination When No Defect Is Present For:

- **P205E - (Diesel Exhaust Fluid) Reductant Tank Temperature Sensor Circuit Intermittent (setting when the block heater is plugged in).
- P20E8 - (Diesel Exhaust Fluid) Reductant Pressure Too Low.
- U110E - Lost Ambient Temperature Message.**
- U3017 - Control Module Timer/Clock Performance.
- P0087 - Fuel Rail Pressure Too Low.
- P0544 - Exhaust Gas Temperature Sensor Circuit - Sensor 1/1.
- P2281 - Air Leak Between MAF And Throttle Body.
- P0128 - Thermostat Rationality. In low ambient temperatures.
- U1421 - Implausible Ignition Key Off Time Received.
- P202E - Diesel Exhaust Fluid (DEF) Reductant Injector Performance.
- P20EE - SCR NOX Catalyst Efficiency Below Threshold - Bank 1.
- P2002 - Diesel Particulate Filter Efficiency Below Threshold.
- P0604 - Internal control Module RAM Error. This DTC may be caused by enabling the remote throttle feature via the EVIC, and it will be accompanied by a "service electronic throttle control" message in the EVIC.

Other Updates:

- **SCR Efficiency scan tool test improvement.**
- Urea system calibration changes.
- Fuel Filter Minder Calibration Changes.
- Cruise control system improvements.
- Improvements in exhaust brake switch operation.
- Charging system improvements for dual alternator applications.
- Various wiTECH data and system test additions and improvements.
- OBD Template changes for P2453.
- Dual Fuel Tank component update.
- Inducement Timer Reset (Feature enable in wiTech).
- PTO Denied Status Message Update.
- PTO Horn Request sent to Body Control Unit (BCU.)
- Wait To Start (WTS) bulb check timing improvements (1 second).
- Frozen CAC Diagnostic Improvement.

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 a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.**

REPAIR PROCEDURE:

NOTE: If DTC U1601 is present, the ECM P/N did not update, or the engine did not start after the flash, then the flash may have been unsuccessful. Restart the flash update.

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 ECM 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. After reprogramming, turn the ignition off to power down the ECM. The key must remain off for a minimum of 75 seconds.
3. Clear all 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.

NOTE: If DTCs U05A5-Implausible Data Received From Ammonia Sensor or U12A4-Lost Communication With Ammonia Sensor are set after the repair then the PCM has the incorrect calibration installed. Reprogram the PCM with the correct calibration.

4. Perform the PCM Configuration routine in wiTECH located in the PCM "Misc Functions" menu tab.
5. Verify the Dosing Control Unit (DCU) software is up to date in accordance with the service procedures and labor times outlined in all applicable published service bulletins.**

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-04-BK	Module, Engine Control (ECM) - Inspect Software Level Only (1 - Semi Skilled)	10 - DIESEL	0.2 Hrs.
**18-19-04-DG	Module, Engine Control (ECM) - Reprogram, Without Ammonia Sensor,(M/T and Aisin) (1 - Semi-Skilled)	10 - DIESEL	0.4 Hrs.
18-19-04-DF	Module, Engine Control (ECM) - Reprogram, With Ammonia	10 - DIESEL	0.4 Hrs.**

	Sensor,(M/T and Aisin) (1 - Semi-Skilled)		
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NOTE: The expected completion time for the flash download portion of this procedure is approximately ****14**** 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**