

NUMBER: 18-034-17

GROUP: Vehicle Performance

DATE: April 06, 2017

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-037-16 REV. A, DATED APRIL 23, 2016 WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS** AND INCLUDE ADDITIONAL SOFTWARE ENHANCEMENTS, DIAGNOSTIC TROUBLE CODES (DTCs), UPDATED FAILURE CODE STATEMENT 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: 6.7L Diagnostic And System Improvements

OVERVIEW:

This bulletin involves reprogramming the Engine Control Module/Powertrain Control Module (ECM/PCM) with the latest available software.

MODELS:

| 2015 | (DJ) | RAM 2500 Pickup |
|------|------|-----------------|
| 2015 | (D2) | RAM 3500 Pickup |

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

SYMPTOM/CONDITION:

A small number of customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation a technician may find one or more of the following DTCs set in the PCM memory:

- **P1451 Diesel Particulate Filter System Performance.
- P229E NOx Sensor Circuit Bank 1 Sensor 2.**
- P218F Reductant No Flow Detected.
- P242F Diesel Particulate Filter Restriction Ash Accumulation.
- P205E (Diesel Exhaust Fluid) Reductant Tank Temperature Sensor Circuit Intermittent (setting when the block heater is plugged in).
- U110E Lost Ambient Temperature Message.

- P20E8 (Diesel Exhaust Fluid) Reductant Pressure Too Low.
- P2281 Air Leak Between MAF And Throttle Body.
- P1477 Intake Air Diverter Valve Position Sensor Circuit Shorted To Ground.
- U1421 Implausible Ignition Key Off Time Received.
- P026B Injection Timing Performance.

In addition to addressing the above DTCs, the following powertrain system improvements/enhancements are also included in this software release:

- **Improved Exhaust Gas Recirculation (EGR) valve response.
- Over Running Clutch (ORC) software improvement.
- Unpleasant odor in the vehicle at low speeds during regeneration cycle.
- Selective Catalytic Reduction (SCR) Efficiency improvement in cold weather.**
- Enhanced software for a No crank/No start issue. (U0100 Lost Communication With ECM/PCM). (Sales Code DG7).
- Ambient Air Temperature (AAT) improvements.
- 68RFE Transmission overall shift quality improvements.
- Charging system improvements for single alternator applications (Changes the cutout threshold from 600 to 500 RPM).
- Diesel Exhaust Fluid (DEF) system calibration improvement during Stationary Regeneration.
- Cold idle speed stability improvement.
- Charging system improvements for dual alternator applications.
- Torque increase to 865 ft/lbs (D2 vehicles equipped with the Aisin transmission sales code DF2 only).
- Fuel Filter Minder calibration changes.
- wiTECH Fuel Pressure Override and Fuel System Run Up test improvements.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related 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 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.

- Reprogram the ECM/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. Is this vehicle equipped with the 68RFE automatic transmission?

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- a. Yes>>> Proceed to Step #3.
- b. No>>> Turn ignition key OFF for 75 seconds then proceed to Step #5.
- 3. Turn ignition key OFF for 10 minutes and proceed to Step #4.
- 4. Perform the transmission "Quicklearn" procedure. Follow the detailed service procedures available in DealerCONNECT/TechCONNECT, Service Info Section 08 Electrical > 8E Electronic Control Modules > MODULE, Transmission Control > Standard Procedure > Quicklearn. Proceed to Step #5.
- 5. 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 allow them to be cleared. Proceed to Step #6.
- 6. Perform the PCM Configuration routine in wiTECH located in the PCM "Misc Functions" menu tab.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

| Labor Operation No: | Description | Skill Category | Amount |
|---------------------|--|----------------|------------|
| **18-19-04-GD | Module, Engine Control/Powertrain Control (ECM/PCM) - Reprogram, (Manual Trans/Aisin) (1 - Semi-Skilled) | 10 - DIESEL | 0.4 Hrs. |
| 18-19-04-GE | Module, Engine Control/Powertrain Control (ECM/PCM) - Reprogram, Quicklearn 68RFE Only (AutomaticTrans) (1 - Semi-Skilled) | 10 - DIESEL | 0.7 Hrs.** |

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 use failure code CC with this Service Bulletin.

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Service Bulletin, failure code CC is to be used.
- When utilizing this failure code the 3C's (customer's concern, cause and correction) must be provided for processing Service Bulletin flash/reprogramming conditions.**

| CC | Customer Concern |
|----|------------------|
|----|------------------|