



NUMBER: 18-003-22

GROUP: 18 - Vehicle Performance

DATE: January 6, 2022

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This bulletin supersedes Technical Service Bulletin (TSB) 18-092-17 REV. A, date of issue December 14, 2017, which should be removed from your files. All revisions are highlighted with **asterisks**** and include an additional Diagnostic Trouble Code (DTC), and LOP.**

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

This bulletin involves reprogramming the PCM with the latest available software.

MODELS:

2016	(DD)	RAM 3500 Cab Chassis
2016	(DF)	RAM 3500 <10K LB Cab Chassis
2016	(DP)	RAM 4500/5500 Cab Chassis

NOTE: This bulletin applies to vehicles within the following markets/countries: North America.

NOTE: This bulletin applies to vehicles equipped with a 6.7L I6 Cummins Turbo Diesel Engine (Sales Code ETK).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation a technician may find the following DTCs set in the PCM memory:

- ****P064F - Unauthorized Software/Calibration Detected.****
- P218F - Reductant No Flow Detected.
- P202E - (Diesel Exhaust Fluid) Reductant Injector Performance.
- U0001-00 - CAN C BUS.
- P1C55 - NOx Sensor Intermittent - Bank 1 Sensor 1.
- P24A5 - EGR Cooler Bypass Bank 1 Control Stuck.
- P207F - Reductant Quality Performance.
- P218F - Reductant No Flow Detected.
- U110E - Lost Ambient Temperature Message.

The following Diagnostic Trouble Codes (DTCs) have been changed from a one trip fault to a two trip fault:

- P2280 - Air Flow Restriction / Leak Between Air Cleaner and MAF.
- P203C - (Diesel Exhaust Fluid) Reductant Level Sensor Circuit Low.
- P208D - (Diesel Exhaust Fluid) Reductant Pump Control Circuit High.

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

- Fuel pressure override test improvement for wiTECH.
- AC pressure sensor error threshold change.
- No crank, No start fix.
- Ambient Air Temperature Improvements.
- Stationary de-soot with WiTECH fix.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, 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: 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: 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.

1. Reprogram the PCM/ECM 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. 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.
3. 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-SV	Module, Engine Control/Powertrain Control (ECM/PCM) - Reprogram (0 Introduction)	10 - Diesel	0.4 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 Technical Service Bulletin.

- If the customer's concern matches the SYMPTOM/CONDITION identified in the Technical 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 Technical Service Bulletin flash/reprogramming conditions.

CC	Customer Concern
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