



**NUMBER:** 18-048-20

**GROUP:** 18 - Vehicle Performance

**DATE:** May 23, 2020

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**SUBJECT:**

Flash: Powertrain Control Module (PCM) Updates

**OVERVIEW:**

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

**MODELS:**

2020 (D2) RAM 3500 Pickup

**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 HO Turbo Diesel Engine (Sales Code ETM) and 6-SPD Automatic AISIN AS69RC HD Transmission (Sales Code DF2).

**SYMPTOM/CONDITION:**

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that one or more of the following Diagnostic Trouble Codes (DTCs) have been set:

- P24A5-00 - EGR Cooler Bypass Bank 1 Control Stuck.
- P20EE-00 - NOx Catalyst Efficiency Below Threshold.
- P0299-00 - Turbocharger Underboost.
- P1451-00 - Diesel Particulate Filter System Performance.
- P242F-00 - Diesel Particulate Filter Restriction - Ash Accumulation.
- P0420-00 - Catalyst System Efficiency Below Threshold Bank 1.
- P2002-00 - Diesel Particulate Filter Efficiency Below Threshold.
- P0191-00 - Fuel Rail Pressure Sensor Circuit Performance.
- P0461-00 - Fuel Level Sensor 1 Performance.
- P0401-00 - EGR System Performance.
- P208B-00 - Reductant Pump 1 Control Performance.

The following improvements are also included in this update:

- Hydrocarbon Desorption Mode, will resume after key cycle.
- Engine stumble improvement, during engine warm up.
- Smoke improvement during highway driving and lower altitudes (sea level).

**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/conditions listed above or if the technician finds the DTCs, 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.**

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. Using wiTECH, perform the "Oil Life Restore" procedure located in the ECM "Misc Functions".

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Skill Category	Amount
18-19-04-KT	Module, Engine Control (ECM) - Reprogram (1 - Semi-Skilled)	10 - Diesel	0.4 Hrs.

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 10 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
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