



NUMBER: 18-127-22

GROUP: 18 - Vehicle Performance

DATE: July 8, 2022

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This bulletin supersedes Service Bulletin 18-072-21, dated August 12, 2021, which should be removed from your files. All revisions are highlighted with **asterisks**** and include update build date, additional improvements and LOP.**

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

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

NOTE: PCM software related to this Technical Service Bulletin (TSB) is included within the Y43 Recall. If not already completed, please perform the Y43 recall if the vehicle is on the recall VIN list. For all other vehicles perform the Repair Procedure below.

MODELS:

2021	(DD)	RAM 3500 Cab Chassis
2021	(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 built on or before June 26, 2021 (MDH 0626XX) equipped with a 6.7L I6 Cummins Turbo Diesel Engine (Sales Code ETN).

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:

- P0607-00 - ECU Internal Performance.
- P0299-00 - Turbocharger Underboost.
- P1451-00 - Diesel Particulate Filter System Performance.

The following improvements are also included in this update:

- ****Idle stability improvement.**
- Fuel system run-up test routine, wiTECH improvement.
- Aftertreatment system performance test routine, wiTECH improvement.
- Power Take Off (PTO) system improvements.
- Enabling Estop for split shaft PTO systems.******
- Oil pressure switch modifications.
- Urea (DEF fluid) level sensor calibration update, to help prevent bumps in DEF level gauge.

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 Inspection 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.

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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.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-04-TA	Module, Engine Control (ECM) - Reprogram (0 Introduction)	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 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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