



NUMBER: 18-070-22

GROUP: 18 - Vehicle Performance

DATE: April 2, 2022

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This bulletin supersedes Technical Service Bulletin 18-058-20, dated August 5, 2020, which should be removed from your files. All revisions are highlighted with **asterisks**** and include updated market/countries, symptoms/conditions, Diagnostic Trouble Codes (DTCs) and LOP.**

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

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

MODELS:

2019 (DT) RAM 1500 Pickup

NOTE: This bulletin applies to vehicles within the following markets/countries: North America, **APAC, EMEA and LATAM.******

NOTE: This bulletin applies to vehicles equipped with a 3.6L V6 24V VVT Etorque Engine Upgrade I (Sales Code ERG).

SYMPTOM/CONDITION:

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

- ****P0607** - ECU Internal Performance.
- P04FC - Crankcase ventilation system performance.
- U1817 - Lost Communication With Hybrid Powertrain Control Module On D-PT.
- U0074 - Dedicated Powertrain D-PT Can Bus Off.******
- P0456 - EVAP System Small Leak.

NOTE: If DTC P0456 is present use the wiTECH Small Leak Verification Test (SLVT) to determine if a leak is present in the system.

- P06EF - Engine Restart Performance.
- P0175 - Fuel System 2/1 Rich.
- P258B - Electronic Vacuum Pump Performance.
- P0128 - Thermostat Rationality.
- C0062 - Longitudinal Acceleration Sensor.

In addition, customers may experience one or more of the following concerns:

- **A 2-3 kmh (1-2 mph) difference between cruise set speed and the actual vehicle speed (APAC, EMEA and LATAM Only).
- An inability to tap up cruise control in kph/mph increments.
- A rough idle during engine warm-up condition.**
- A hesitation during aggressive accelerations after an Electronic Stop/Start (ESS) event and the engine is not fully at warm operational temperature.
- Engine RPM erratic and or bucking, when accelerating after slowing down.
- Occasional engine shut off while shifting from 4WD low to 2WD.
- Improvements to the vacuum pump cycle time.
- Rough idle after cold start.

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: The Hybrid Control Processor (HCP) and Transmission Control Module (TCM) must be updated to the latest available software at the conclusion of this repair procedure. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the HCP and TCM software.

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 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 any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
3. Verify the HCP and TCM are programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the HCP and TCM software.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-G3	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair and Performance	0.3 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 5 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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