



**NUMBER:** 18-050-21

**GROUP:** 18 - Vehicle Performance

**DATE:** May 22, 2021

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**SUBJECT:**

Flash: Powertrain Control Module (PCM) Updates

**OVERVIEW:**

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

**MODELS:**

2021 (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 built on or before April 22, 2021 (MDH 0422XX), equipped with a 6.2L Supercharged HEMI V8 SRT Engine (Sales Code ESD) and 8-SPD Auto 8HP95 Transmission (Sales Code DFS).

**SYMPTOM/CONDITION:**

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

- P0133 - O2 Sensor 1/1 Slow Response.
- P0153 - O2 Sensor 2/1 Slow Response.
- P0171 - Fuel System 1/1 Lean.
- P0174 - Fuel System 2/1 Lean.
- P0300 - Multiple Cylinder Misfire.
- P0301 - Cylinder 1 Misfire.
- P0302 - Cylinder 2 Misfire.
- P0303 - Cylinder 3 Misfire.
- P0304 - Cylinder 4 Misfire.
- P0305 - Cylinder 5 Misfire.
- P0306 - Cylinder 6 Misfire.
- P0307 - Cylinder 7 Misfire.
- P0308 - Cylinder 8 Misfire.
- B2286 - Calibration Not Learned / Lost Calibration.

The customer may also experience one or more of the following:

- Hesitation feel during a pedal tip in, while engine is warming up below -1 °C (30 °F) ambient temp.
- During a 2 - 3 transmission upshift, the engine is hitting rev limit.
- "Service Suspension" message in Instrument Panel Cluster (IPC) on start up.

**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 one listed 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 any DTC, perform the Repair Procedure.

**REPAIR PROCEDURE:**

**NOTE: The 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 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. The PCM Axle In Air learn routine must be performed. Refer to the detailed service procedures available in DealerCONNECT/Service Library under: Service Info 08 - Electrical / 8E - Electronic Control Modules / Module, Powertrain Control (PCM) / Module Programming
3. 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.
4. Verify the 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 TCM software.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

| <b>Labor Operation No:</b> | <b>Description</b>   | <b>Skill Category</b>           | <b>Amount</b> |
|----------------------------|--|---------------------------------|---------------|
| 18-19-06-FB                | Module, Powertrain Control (PCM) - Reprogram<br>(0 - Introduction) | 6 - Electrical and Body Systems | 0.3 Hrs.      |

**NOTE: The expected completion time for the flash download portion of this procedure is approximately 6 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 |
|----|------------------|