



NUMBER: 18-145-22

GROUP: 18 - Vehicle Performance

DATE: October 6, 2022

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This bulletin supersedes Technical Service Bulletin (TSB) 18-050-21, date of issue May 22, 2021, which should be removed from your files. All revisions are highlighted with **asterisks**** and include a new clean date, new customer concern and new LOP.**

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

This bulletin involves reprogramming the Powertrain Control Module (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, Enlarged Europe, Asia Pacific and South America.

NOTE: This bulletin applies to vehicles built on or before ****June 30, 2021 (MDH 0630XX)**** equipped with a 6.2L Supercharged HEMI V8 SRT Engine (Sales Code ESD).

SYMPTOM/CONDITION:

The customer may experience one or more of the following:

- ****Generic Scan Tool shows incorrect PCM Calibration Part Number and Emissions type: OBDI not OBDII (North America Only).****
- 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 **(DFS Sales Code Only)**.
- "Service Suspension" message in Instrument Panel Cluster (IPC) on start up.

Customers may also 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.

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. Using WiTech, Perform the TRX Suspension Rebound Reset / Ride Height Sensor Learn routine.
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:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-B5	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	6 - Electrical and Body Systems	0.4 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 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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