



**NUMBER:** 18-074-20 REV. A

**GROUP:** 18 - Vehicle Performance

**DATE:** October 30, 2020

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**This bulletin supersedes Technical Service Bulletin (TSB) 18-074-20, date of issue September 1, 2020, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include additional symptom/condition and LOP.**

**This Technical Service Bulletin (TSB) has also been released as a Rapid Response Transmittal (RRT) 19-053, date of issue July 17, 2019. All applicable Sold and Un-Sold RRT VINs have been loaded. To verify this RRT service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty. This RRT will expire 18 months after the date of issue.**

***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 5.7L V8 HEMI MDS VVT Engine (Sales Code EZH).**

***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:

- P0339 - Crankshaft Position Sensor Intermittent.
- P0335 - Crankshaft Position Sensor Circuit.
- 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.**

- P258B - Electronic Vacuum Pump Performance.

The customer may experience one or more of the following:

- \*\*ECO light does not illuminate in the instrument cluster during Multiple Displacement Solenoid (MDS) event.
- 2-3 km (1.4 to 1.9 mph) difference between cruise set speed and the actual vehicle speed.\*\*
- The engine may exhibit a crank and fail to start situation.
- The vehicle has a rough idle only after cold start.
- The radiator cooling fan is stuck on for a long time while driving.
- Coolant temp/check gauges light illuminated in the Instrument Panel Cluster (IPC).
- Radiator cooling fan inoperative.

### **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 a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. If any vehicle not on the VIN list exhibits the symptom/condition or DTC, perform the repair.

### **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. Is the vehicle on the RRT VIN list?
  - YES>>> Proceed to [Step 2](#).
  - NO>>> Proceed to [Step 3](#).
2. Does the PCM control module have the latest software already installed?
  - YES>>> This bulletin has been completed, use inspect LOP (18-19-06-9T) to close the active RRT.
  - NO>>> Proceed to [Step 3](#) of the Repair Procedure.
3. 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.
4. 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:**

| <b>Labor Operation No:</b> | <b>Description</b>                                                             | <b>Skill Category</b>            | <b>Amount</b> |
|----------------------------|--------------------------------------------------------------------------------|----------------------------------|---------------|
| 18-19-06-9T                | Module, Powertrain Control (PCM) - Inspect Only<br>(0 - Introduction)          | 1- Engine Repair and Performance | 0.2 Hrs.      |
| **18-19-06-DF              | Module, Powertrain Control (PCM) - Inspect and Reprogram<br>(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 6 minutes. Actual flash download times may be affected by vehicle connection and network capabilities.

**FAILURE CODE:**

The dealer must choose which failure code to use depending on if this is a Rapid Response Transmittal (RRT) or Service Bulletin.

- The “RF” failure code is required for essential module flash/reprogramming and can only be used after confirmation that the VIN is included on the RRT.
- The failure code “RF” (Required Flash) can no longer be used on Service Bulletin flashes. **The “RF” failure code must be used on an RRT.**
- 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 must be supplied.

|    |                      |
|----|----------------------|
| RF | Required Flash - RRT |
| CC | Customer Concern     |