



**NUMBER:** 18-147-22

**GROUP:** 18 - Vehicle Performance

**DATE:** November 5, 2022

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**This bulletin supersedes Technical Service Bulletin (TSB) 18-009-20, date of issue February 06, 2020, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include and updated markets, Diagnostic Trouble Codes (DTCs), Note and LOP.**

**SUBJECT:**

Flash: Powertrain Control Module (PCM) and Transmission Control Module (TCM) Updates

**OVERVIEW:**

This is a coordinated bulletin that involves reprogramming the PCM and Transmission Control Module (TCM) at the same time, with the latest available software.

**NOTE: Both the PCM and TCM must be up to date for these changes to be effective.**

**MODELS:**

2019 (WK) Jeep Grand Cherokee

**NOTE: This bulletin applies to vehicles within the following markets/countries: North America, **\*\*Enlarged Europe, India/Asia Pacific, Middle East/Africa and South America\*\***.**

**NOTE: This bulletin applies to vehicles equipped with a 6.2L Supercharged HEMI V8 SRT Engine (Sales Code ESD) and a 8-SPD Auto 8HP95 Transmission (Sales Code DFS) and Trackhawk Badge (Sales Code M15).**

**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:

- **\*\*P0420 - Catalyst System Efficiency Below Threshold Bank 1.**
- **P0430 - Catalyst System Efficiency Below Threshold Bank 2.\*\***
- **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.\*\*****

Customers may also experience the following:

- Extended engine crank times.

The following improvement is also included:

- Transmission coast-down shift quality improvements.

**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 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:** Both the PCM and TCM must be up to date for these changes to be effective. The flash files for both PCM and TCM are combined into one flash file and are initiated by flashing the PCM. If the user attempts to start the flash process at the TCM, the wiTECH Diagnostic Scan Tool will instruct the user to start the flash process through the PCM.

**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/TCM with the latest software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.

**NOTE:** Do not clear the adaptive memory cells in the TCM. Clearing the memory cells may cause the transmission to not shift smoothly until they can be fully relearned.

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
**18-19-17-9W	Module, Powertrain Control, Transmission Control - Reprogram (0 - Introduction)	1 - Engine Repair and Performance	0.4 Hrs.**

**NOTE:** The expected completion time for the flash download portion of this procedure is approximately 7 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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