



**NUMBER:** 18-023-20

**GROUP:** 18 - Vehicle Performance

**DATE:** March 19, 2020

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**This bulletin supersedes Service Bulletins 18-024-19 REV. C, dated November 01, 2019 and 18-037-18 REV. A, dated April 24, 2018, which should be removed from your files. All revisions are highlighted with **\*\*asterisks\*\*** and include additional 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 (KL) Jeep Cherokee

**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 2.4L I4 MultiAir Engine W/ESS (Sales Code EDD) or a 2.4L I4 Zero EVAP M-AIR Engine W/ESS (Sales Code EDE).**

**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:

- **\*\*P0780 - Gear Shift Malfunction.**
- P050B - Cold Start Ignition Timing Performance.\*\*
- P06EF - Engine Restart Performance.
- 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 comment on one or more of the following:

- Extended engine crank times or possibly a no start condition (**South Korea with Sales Code EDD only**).
- The engine fails to restart while in Engine Stop/Start (ESS) mode. This is usually accompanied with **DTC P06EF**.

**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 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 DTCs, perform the Repair Procedure.

**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.**

**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.**

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 any module due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
3. Perform a hard reset on the PCM using wiTECH.
4. Turn the ignition off for a minimum of 30 seconds to complete the flash.
5. Verify the TCM is 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-BP	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 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
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