



**NUMBER:** 18-018-17

**GROUP:** Vehicle Performance

**DATE:** February 21, 2017

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-014-16 REV. B, DATED SEPTEMBER 03, 2016, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE ADDITIONAL DIAGNOSTIC TROUBLE CODES (DTCs), SOFTWARE IMPROVEMENTS AND LOP.**

**FOR HELP WITH USING wiTECH FOR ECU FLASH REPROGRAMMING, CLICK ON THE APPLICATION'S "HELP" TAB.**

**THE wiTECH SOFTWARE IS REQUIRED TO BE AT THE LATEST RELEASE BEFORE PERFORMING THIS PROCEDURE.**

***SUBJECT:***

Flash: Powertrain Diagnostic and System Improvements

***OVERVIEW:***

This bulletin involves reprogramming the Powertrain Control Module (PCM) with the latest available software.

***MODELS:***

2016 (KL) Jeep Cherokee

**NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA, EMEA, APAC and LATAM.**

**NOTE: This bulletin applies to vehicles equipped with a 2.4L Engine (Sales Code ED6 or ED8).**

**SYMPTOMS/CONDITIONS:**

A small number of customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation, the technician may find one or more of the following DTCs:

- \*\*U1504 - Implausible Message Data Length Received From Steering Angle Sensor.
- P0128 - Thermostat Rationality.
- P0340 - Camshaft Position Sensor Circuit - Bank 1 Sensor 1.
- P0335 - Crankshaft Position Sensor Circuit.
- U1424 - Implausible Engine Torque Signal Received.\*\*
- P1066 - Cylinder 1 Oil Supply Solenoid Valve Switch Off Time Out Of Range (ED6 Sales Code).
- P1068 - Cylinder 2 Oil Supply Solenoid Valve Switch Off Time Out Of Range (ED6 Sales Code).
- P106A - Cylinder 3 Oil Supply Solenoid Valve Switch Off Time Out Of Range (ED6 Sales Code).
- P106C - Cylinder 4 Oil Supply Solenoid Valve Switch Off Time Out Of Range (ED6 Sales Code).
- P1185 - General Pressure Sensor Correlation (ED6 Sales Code).
- P0101 - Mass Air Flow Sensor "A" Circuit Performance.
- P0133 - O2 Sensor 1/1 Slow Response.
- P1607 - PCM Internal Shutdown Timer Rationality.
- P2610 - PCM Internal Engine Off Timer Performance.
- B104D - Blend Door Control Circuit Low.
- U0402 - Implausible Data Received From TCM.

In addition, some customers may experience the following:

- A Transmission Tip-In Bump (when accelerating out of 4th gear).

The following improvements are included in this update:

- \*\*Prevents a false setting of DTC: C121C-00 - Torque Request Signal Denied.
- Min spark changes to prevent catalytic converter overheating.\*\*
- Shift energy management torque fix.

**DIAGNOSIS:**

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related systems are functioning as designed. If DTCs or symptom conditions, other than the ones 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 one or more of the symptoms/conditions or if the technician finds a DTC listed above, perform the Repair Procedure.

**REPAIR PROCEDURE:**

**CAUTION: 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. Clear any DTCs that may have been set in all modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
3. Verify the Transmission Control Module (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-QA	Module, Powertrain Control (PCM) - Inspect and/or Reprogram (0 - Introduction)	1 - Engine Repair And Performance	0.2 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. If the customer came in with an issue and the dealer found updated software to correct that issue, use failure code CC, for all other use failure code RF.**

- If the customer's concern matches the SYMPTOMS/CONDITIONS identified in the Service Bulletin, failure code CC is to be used.
- If an available flash is completed while addressing a different customer concern, failure code RF is to be used.

CC	Customer Concern
RF	Routine Flash