

NUMBER: 18-005-15 REV. F

GROUP: Vehicle Performance

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-005-15 REV. E DATED OCTOBER 17, 2015 WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS** AND INCLUDE UPDATED SYMPTOM/CONDITIONS.

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 15-013 ALL APPLICABLE SOLD AND UN-SOLD RRT VIN'S HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

HELP USING THE WITECH DIAGNOSTIC APPLICATION FOR FLASHING AN ECU IS AVAILABLE BY SELECTING "HELP" THEN "HELP CONTENTS" AT THE TOP OF THE WITECH DIAGNOSTIC APPLICATION WINDOW.

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

SUBJECT:

Flash: 2.4L Powertrain Diagnostic And System Improvements

OVERVIEW:

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

MODELS:

2014 - 2015 (KL) Jeep Cherokee

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

NOTE: This bulletin applies to vehicles built on or before March 30, 2015 (MDH 0330XX) equipped with a 2.4L engine (Sales Code ED8).

NOTE: This bulletin applies to all 2014 and 2015 models equipped with a 2.4L engine (Sales Code ED6).

SYMPTOM/CONDITION:

Some customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following Diagnostic Trouble Codes (DTCs):

2015 KL Only

- **P0456 EVAP System Small Leak.
- P0300 Multiple Cylinder Misfire.
- P0301 Cylinder 1 Misfire.
- P0302 Cylinder 2 Misfire.
- P0303 Cylinder 3 Misfire.
- P0304 Cylinder 4 Misfire.
- P2610 PCM Internal Engine Off Timer Performance.
- P1607 PCM Internal Shutdown Timer Rationality.**
- U0402 Implausible Data Received From TCM (ED6).
- P0116 Engine Coolant Temperature Sensor 1 Performance.
- P050D Cold Start Rough Idle.
- P2172 High Airflow/Vacuum Leak Detected.
- P219A Air-Fuel Ratio Cylinder Imbalance Bank 1 has been set in the PCM.

2014 KL Only

- P2172 High Airflow/Vacuum Leak Detected.
- P219A Air-Fuel Ratio Cylinder Imbalance Bank 1 has been set in the PCM.
- P106A Cylinder 3 Oil Supply Solenoid Valve Switch Off Time Out Of Range.
- P2251 O2 Sensor 1/1 Negative Current Control Circuit Open.
- P0031 O2 Sensor 1/1 Heater Circuit Low.

In addition, some customers may experience one or more of the following conditions:

- Cold Engine Startup Flare and Idle Surge (ED6).
- Intermittent elevated engine RPM at start up.
- Less than desired gear engagement in lower ambient temperatures.
- Less than desired idle performance.

These conditions apply to 2015 model year vehicles only.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If DTCs other than the ones listed above are present, record them 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. For all other customers that describe the symptom/condition, or if the technician finds any of the DTCs 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.

Reprogram the PCM with the latest software. Detailed instructions for flashing control
modules using the wiTECH Diagnostic Application are available by selecting the
"HELP" tab on the upper portion of the wiTECH window, then "HELP CONTENTS."
This will open the Welcome to wiTECH Help screen where help topics can be
selected.

NOTE: If the PCM already has the latest software, use LOP 18-19-06-DV to close the RRT portion of this service action.

- 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-DV	Module, Powertrain Control (PCM) - Inspect (0 - Introduction)	8 - Engine Performance	0.2 Hrs
18-19-06-ZH	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	8 - Engine Performance	0.2 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 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 SYMPTOM/CONDITION 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