



NUMBER: 18-032-17

GROUP: Vehicle Performance

DATE: March 31, 2017

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-034-16, DATED MARCH 31, 2016 AND 18-122-16, DATED NOVEMBER 24, 2016, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE UPDATED BUILD DATES FOR FWD & AWD VEHICLES, ADDITIONAL DIAGNOSTIC TROUBLE CODES (DTCs), LOP AND UPDATED FAILURE CODE STATEMENT.**

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 (K4) Jeep Cherokee

**NOTE: This bulletin applies to vehicles within the following markets/countries:
APAC (China Market).**

NOTE: **This bulletin applies to vehicles built on or after November 29, 2016 (MDH 1129XX)**** equipped with a 2.4L Engine W/ESS(Sales Code EDD), 9 Speed Automatic Transmission (Sales Code DFH), 3.73 Final Drive Ratio (Sales Code DME), Export Emissions (Sales Code NA1), and Active Grille Shutters (Sales Code MDX).**

NOTE: **This bulletin applies to vehicles built on or after January 04, 2017 (MDH 0104XX)** equipped with AWD Single Speed Power Takeoff (Sales Code DK2), 2.4L Engine W/ESS(Sales Code EDD), 9 Speed Automatic Transmission (Sales Code DFH), 3.73 Final Drive Ratio (Sales Code DME), Export Emissions (Sales Code NA1), and Active Grille Shutters (Sales Code MDX).****

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:

- **P1186 - Cylinder 1 Oil Supply Solenoid Valve Switch Off Time Out Of Range
- P0128 - Cylinder 2 Oil Supply Solenoid Valve Switch Off Time Out Of Range
- P0101 - Mass Air Flow Sensor "A" Circuit Performance.
- P1066 - Cylinder 1 Oil Supply Solenoid Valve Switch Off Time Out Of Range.
- P1068 - Cylinder 2 Oil Supply Solenoid Valve Switch Off Time Out Of Range.
- P106A - Cylinder 3 Oil Supply Solenoid Valve Switch Off Time Out Of Range.
- P106C - Cylinder 4 Oil Supply Solenoid Valve Switch Off Time Out Of Range.**
- P0335-00 - Crankshaft Position Sensor Circuit.
- P1185 - General Pressure Sensor Correlation.
- C0501, C0507, C050D, C0513 - Wheel Speed Sensor Rationality Errors.

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

- Less than desired idle performance.
- Intermittent elevated engine RPM at start up.

Other enhancements included in this update:

- Min spark changes to prevent catalytic converter overheating.
- Active grill shutter diagnostics (If equipped).
- Electronic Start/Stop (ESS) improvements.
- Upshift quality improvement when engine is cold.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all related 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 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:

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.

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 "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.
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-QP	Module, Powertrain Control (PCM) - 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 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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