SERVICE BULLETIN

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GROUP: Vehicle Performance

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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:

2015 - 2016	(MK)	Jeep Compass/Patriot

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

NOTE: **This bulletin applies to 2015 & 2016 MY vehicles equipped with a 2.0L I4 DOHC 16V Dual VVT Engine (Sales Code ECN).**

NOTE: This bulletin applies to 2016 MY vehicles built on or before March 22, 2016 (MDH 0322XX) equipped with:

- **2.4L I4 DOHC 16V Dual VVT Engine (Sales Code ED3).**
- **2.0L I4 DOHC 16V E22 VVT Engine (Sales Code ECT).**

SYMPTOM/CONDITION:
A small number of customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find the following Diagnostic Trouble Codes (DTCs) set in the PCM memory:

- P0335 - Crankshaft Position Sensor Circuit.
- P0456 - Evap System Small Leak.

**The following software enhancement is also available:

- Engine is hard to start at temperatures -29°C (-20°F) for vehicles utilizing E15 fuel only (Sales Code ECN).**

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 the symptom/condition listed above or if the technician finds any of the listed 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.

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 allows them to be cleared.

POLICY:
Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
**18-19-06-NF	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 4 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