SERVICE BULLETIN

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GROUP: 18 - Vehicle Performance

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-033-16, DATED MARCH 31, 2016, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS AND INCLUDE NEW SOFTWARE ENHANCEMENTS IN SYMPTOM/ CONDITIONS, ADDITIONAL NOTE AND STEP IN REPAIR PROCEDURE, UPDATED FAILURE CODE STATEMENT 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 Enhancements

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

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

MODELS:

2015	(JC)	Dodge Journey

NOTE: This bulletin applies to vehicles equipped with a 2.4L I4 DOHC 16V Dual VVT Engine (Sales Codes ED3 or ED7) or a 3.6L V6 24V VVT Engine (Sales Code ERB).

SYMPTOM/CONDITION:
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:

2.4L Engine

- P0335 - Crankshaft Position Sensor Circuit.
- P0301 - Cylinder 1 Misfire.
- P0302 - Cylinder 2 Misfire.
- P0303 - Cylinder 3 Misfire.
- P0304 - Cylinder 4 Misfire.
- P1607 - PCM Internal Shutdown Timer Rationality - (Powertrain Control Module).
- P2610 - PCM Internal Engine Off Timer Performance - (Powertrain Control Module).
- P0456 - EVAP System Small Leak.
- P0441 - EVAP Purge System Performance.
- P0443 - EVAP Purge Solenoid Circuit.
- P0116 - Engine Coolant Temperature Sensor Performance.
- P219A - Air-Fuel Ratio Cylinder Imbalance Bank 1.
- U0140 - Lost Communication With Body Control Module (BCM).

Customers may also notice one or more of the following symptoms:

- **When coming to a stop or making a turn, their vehicle would suddenly shutoff. Mostly noted in high ambient conditions greater than 40° C (105° F) **(ED3 Engine only)**.
- A hesitation/surge feel that some customers might note it feels like misfire at 65-110 kph (40-70 mph) in 4th gear lock up **(ED3 Engine only)**.**

In addition, the following software enhancements are available:

- **Start Improvements for cold or high altitude starts when using E15 fuel **(ED3 Engine only)**.**

3.6L Engine

- P0335 - Crankshaft Position Sensor Circuit.
- P2610 - PCM Internal Engine Off Timer Performance.
- P0456 - EVAP System Small Leak.
- P0300 - Multiple Cylinder Misfire.
- P000A - Bank 1 Camshaft 1 Position Slow Response.
- P000B - Bank 1 Camshaft 2 Position Slow Response.

In addition, the following software enhancement is available:

- Improved shift quality.

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 the DTC, 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 application's "HELP" tab.
2. Clear all 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. **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-TB	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 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