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GROUP: 18 - Vehicle Performance

DATE: August 28, 2020

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This bulletin supersedes Service Bulletin 18-033-17 REV. A, dated May 05, 2017, which should be removed from your files. All revisions are highlighted with **asterisks**** and new software for 2015 LD vehicle's with police package and LOP.**

SUBJECT:

Flash: Powertrain Control Module (PCM) Updates

OVERVIEW:

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

MODELS:

2013 - 2014	(LC)	Dodge Challenger
2013 - 2015	(LD)	Dodge Charger
2013 - 2015	(LX)	Chrysler 300
2015	(LA)	Dodge Challenger

NOTE: This bulletin applies to vehicles equipped with 5.7L V8 Hemi VVT Engine (Sales Code EZC) or equipped with 5.7L V8 Hemi MDS VVT Engine (Sales Code EZH).

NOTE: This bulletin applies to 2013-**2015**** MY LD vehicles equipped with 5.7L V8 Hemi MDS VVT Engine (Sales Code EZH) with Police Group (Sales Code AHB) or Special Service Group (Sales Code AHV).**

SYMPTOM/CONDITION:

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):

- U1424-00 - Implausible Engine Torque Signal Received **(2015 MY)**.
- P0456 - EVAP System Small Leak.
- P2610 - PCM Internal Engine Off Timer Performance.
- P2299 - Brake Pedal Position / Accelerator Pedal Position Incompatible.
- P0335 - Crankshaft Position Sensor Circuit **(2014-2015 MY)**.
- U0140 - Lost Communication With Body Control Module **(LC, LD and LX)**.
- P1621 - O2 Sensor Reference Voltage Circuit Low.
- P1622 - O2 Sensor Reference Voltage Circuit High.
- P0606 - Internal Control Processor.
- P0300 - Multiple Cylinder Misfire.
- P219A - Bank 1 Air-Fuel Ratio Imbalance.
- P219B - Bank 2 Air-Fuel Ratio Imbalance.
- P0307 - Cylinder 7 Misfire.
- P2096 - Downstream Fuel Trim System 1 Lean.
- P2097 - Downstream Fuel Trim System 1 Rich.

The following software enhancements are also available (2015 MY):

- Reverse gear lock-out change from 16 kph (10 mph) to 4.8 kph (3 mph) (**Sales Code EZC with DEC**).
- Change to purge vapor control calibration (**Sales Code EZH with DGJ**).
- Improvements to vehicle overspeed control (**Sales Code EZH with DGJ**).
- Calibration update to the electronic voltage regulator voltage set point (**Sales Code EZH with DGJ**).

Additional Symptoms:

- Customers with a Pursuit Dodge Charger (LD) may describe an unpleasant odor in the vehicle under certain extreme ambient conditions **2013-~~2015~~ MY LD with (Sales Codes EZH with AHB or AHV only)**.
- Technicians may find that the original vehicle Frequency Operated Button Integrated Key (FOBIK) does not function properly following replacement of the Wireless Ignition Node (WIN/WCM). The Secret Key information stored in the PCM may be corrupt. This update will restore the PCM's ability to store/transfer valid Secret Key information (**LC vehicles**).
- Accuracy improvements for the Automatic Oil Change Indicator (AOIC) system.
- Engine buck or delay feeling during low speed driving.
- Less than desired engine performance during Multiple Displacement System (MDS) mode transitions.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, verify all related systems are functioning as designed. If Diagnostic Trouble Code (DTCs) or symptom conditions, other than the ones listed 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 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. **(This step applies only to LC vehicles)** Perform the "PCM Replaced" function located in wiTECH under the WCM/WIN module view under the Miscellaneous Functions tab. This will transfer the current/valid Secret Key information from the WIN/WCM to the PCM.
3. 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.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
18-19-06-CK	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 3 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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