



NUMBER: 18-059-16

GROUP: Vehicle Performance

DATE: May 21, 2016

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THIS BULLETIN SUPERSEDES SERVICE BULLETINS 18-033-10, DATED DECEMBER 18, 2010, AND 18-043-11, DATED SEPTEMBER 14, 2015 WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE A NEW DIAGNOSTIC TROUBLE CODE AND LABOR OPERATIONS.**

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.

MODELS:

2011 (RT) Chrysler Town & Country/ Dodge Caravan

NOTE: This Service Bulletin applies to vehicles equipped with a 3.6L Engine (Sales Code ERB) and a 62TE 6-Speed Automatic Transmission (Sales Code DG2).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find that the following Diagnostic Trouble Codes (DTCs) have been set:

- ****U0140 - Lost Communication With Body Control Module (TIPM).****
- P0032 - O2 Sensor 1/1 Heater Circuit High.
- P0038 - O2 Sensor 1/2 Heater Circuit High.
- P0052 - O2 Sensor 2/1 Heater Circuit High.
- P0058 - O2 Sensor 2/2 Heater Circuit High.
- P0031 - O2 Sensor 1/1 Heater Circuit Low.
- P0037 - O2 Sensor 1/2 Heater Circuit Low.
- P0051 - O2 Sensor 2/1 Heater Circuit Low.
- P0057 - O2 Sensor 2/2 Heater Circuit Low.

- P0344 - Camshaft Position Sensor Intermittent - Bank 1 Sensor 1.
- P0349 - Camshaft Position Sensor Circuit Intermittent - Bank 2 Sensor 1.
- P0369 - Camshaft Position Sensor Intermittent - Bank 1 Sensor 2.
- P0394 - Bank 2 Camshaft Position Sensor 2/2 Circuit Intermittent.

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in TechCONNECT, verify all engine systems are functioning as designed. If 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 or if the technician finds the DTC, perform one of the Repair Procedures.

The PCM needs to be replaced if two or more of the following DTCs are active or stored as a pair for circuit high in the list below:

- P0032 - O2 Sensor 1/1 Heater Circuit High.
- P0038 - O2 Sensor 1/2 Heater Circuit High.
- P0052 - O2 Sensor 2/1 Heater Circuit High.
- P0058 - O2 Sensor 2/2 Heater Circuit High.

Or if two or more of the following DTCs are active or stored as a pair for circuit low in the list below:

- P0031 - O2 Sensor 1/1 Heater Circuit Low.
- P0037 - O2 Sensor 1/2 Heater Circuit Low.
- P0051 - O2 Sensor 2/1 Heater Circuit Low.
- P0057 - O2 Sensor 2/2 Heater Circuit Low.

PARTS REQUIRED:

Qty.	Part No.	Description
1 (AR)	RL150562AC	Module, Powertrain Control

REPAIR PROCEDURE FOR VEHICLES THAT HAVE NOT EXPERIENCED MIL:

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 other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
 - a. Clear the Variable Line Pressure (VLP) counters, found in the Misc Function menu for the PCM/Engine Control Unit (ECU).

- b. Perform the Quick Learn function, found in the Misc Function menu for the Transmission Control Module (TCM)/ECU.

REPAIR PROCEDURE FOR VEHICLES THAT HAVE EXPERIENCED THE MIL:

1. Replace the PCM. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 8 - Electrical > Electronic Control Modules - Service Information > Module - Powertrain Control > Removal and Installation.

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.

2. 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.
3. Clear any DTCs that may have been set in other modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow them to be cleared.
 - a. Clear the Variable Line Pressure (VLP) counters, found in the Misc Function menu for the PCM/ECU.
 - b. Perform the Quick Learn function, found in the Misc Function menu for the TCM/ECU.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
**18-19-06-JW	Module, Powertrain Control (PCM) - Reprogram (C) (0 - Introduction)	1 - Engine Repair and Performance	0.2 Hrs.
18-19-06-JX	Module, Powertrain Control (PCM) - Replace and Reprogram (C) (0 - Introduction)	1 - Engine Repair and Performance	0.5 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 choose which failure code to use. If the customer came in with an issue and if the dealer finds a software update 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