



**NUMBER:** 18-083-17

**GROUP:** 18 - Vehicle Performance

**DATE:** September 19, 2017

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-123-16, DATED DECEMBER 14, 2016, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE UPDATED BUILD DATE, ADDITIONAL DIAGNOSTIC TROUBLE CODE (DTC), 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 Improvements

***OVERVIEW:***

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

***MODELS:***

2017 (FF) FIAT 500

**NOTE: This bulletin applies to vehicles within the following markets/countries: NAFTA.**

**NOTE: This bulletin applies to vehicles built on or before **\*\*August 24, 2017 (MDH 0824XX)\*\*** equipped with a 1.4L I4 Multiair 16V Engine (Sales Code EAB) or a 1.4L I4 Multiair Turbo Engine (Sales Code EAF).**

***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:

- **\*\*P1D7F-00 - ETC Self-Learning Failure.\*\***
- P0000-00 - Will be displayed but should really be displaying P0326-00 (Knock Sensor 1 Circuit Performance).

***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:** 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.

**NOTE:** Follow all screen prompts that apply to the vehicle.

2. Is the vehicle equipped with a manual transmission?
  - a. YES >>> Fully depress the clutch pedal and then release it. Push OK to continue.
  - b. NO >>> Push OK to continue.
3. Is the vehicle equipped with cruise control?
  - a. YES >>> Depress cruise on/off switch until the cruise indicator in the cluster illuminates and push OK to continue.
  - b. NO >>> Push OK to continue.

**NOTE:** After the PCM software is updated, normal diagnostics need to be performed on P0326-00 (Knock Sensor 1 Circuit Performance) if DTC P0000-00 was found.

4. 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-TG	Module, Powertrain Control (PCM) - Reprogram (0 - Introduction)	1 - Engine Repair and Performance	0.3 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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