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GROUP: 18 - Vehicle Performance

DATE: June 27, 2017

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THIS BULLETIN SUPERSEDES SERVICE BULLETIN 18-059-17, JUNE 16, 2017, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDE A REPAIR PROCEDURE NOTE.**

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:

2017 (BA) Fiat 124 Spider (Convertible)

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

NOTE: This bulletin applies to vehicles built on or before June 06, 2017 (MDH 0606XX) equipped with a 1.4L I4 Multiair Turbo Engine (Sales Code EAM).

SYMPTOM/CONDITION:

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

- P0000-00 - Will be displayed but should really be displaying P0326-00 (Knock Sensor 1 Circuit Performance).

The customer may notice one of the following condition(s):

- Incorrect ambient temperature readings on the Instrument Panel Cluster (IPC).
- Engine knock issues.

In addition, the following software enhancement is also available:

- 4-3 and 3-2 downshift improvements.

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 the cruise On/Off switch until the cruise indicator in the IPC illuminates and push OK to continue.
 - b. NO >>> Push OK to continue.

NOTE: **Perform normal diagnostics for DTC P0326-00 - Knock Sensor 1 Circuit Performance, if P0000-00 was present.**

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-RT	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 5 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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