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**GROUP:** Electrical

**DATE:** April 22, 2016

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**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: Anti Lock Brake (ABS) Module System Enhancements

***OVERVIEW:***

This bulletin involves a coordinated update of the Anti-lock Brake System (ABS) module and Regenerative Brake Controller (RBC) module software.

***MODELS:***

2013 - 2015 (FF)

Fiat 500E

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

**NOTE: This bulletin applies to vehicles built on or before September 26, 2015 (MDH 0926XX) equipped with 83 KW Electric Motor (Sales Code E99).**

***SYMPTOM/CONDITION:***

- U0001-00 - CAN C BUS. (Sets in ABS and RBC Module).
- U1487-00 - Implausible Data Received From Regenerative Brake Controller. (Sets in ABS Module).
- U1200-00 - Lost Communication with Power Inverter Module. (Sets in ABS Module).

***DIAGNOSIS:***

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

**REPAIR PROCEDURE:**

**NOTE: This is a coordinated update that requires flashing both the ABS module and the RBC module in no particular order.**

**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 ABS and RBC modules 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.

**NOTE: Upon completion of this ABS flash reprogramming session, an additional 10 second key cycle (off to on) may be required to mature an active DTCM (Drive Train Control Module) DTC to stored allowing DTC to be cleared.**

***POLICY:***

Reimbursable within the provisions of the warranty.

***TIME ALLOWANCE:***

<b>Labor Operation No:</b>	<b>Description</b>	<b>Skill Category</b>	<b>Amount</b>
18-19-17-9M	Modules, Anti-lock Brake System (ABS) and Regenerative Brake Controller (RBC) - Reprogram (1 - Semi Skilled)	6 - Electrical and Body Systems	0.3 Hrs.

**NOTE: The expected completion time for the flash download portion of this procedure is approximately X 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