

**NUMBER:** 21-024-15 REV. A**GROUP:** Transmission and Transfer Case**DATE:** May 30, 2015

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**THIS BULLETIN SUPERSEDES SERVICE BULLETIN 21-024-15, DATED APRIL 14, 2015, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **\*\*ASTERISKS\*\*** AND INCLUDE ADDITIONAL SYMPTOMS (DTCs), NEW LABOR OPS AND A REVISED CLEAN DATE.**

**HELP USING THE wiTECH DIAGNOSTIC APPLICATION FOR FLASHING AN TCM IS AVAILABLE BY SELECTING "HELP" THEN "HELP CONTENTS" AT THE TOP OF THE wiTECH DIAGNOSTIC APPLICATION WINDOW.**

**THE wiTECH SOFTWARE LEVEL MUST BE AT 15.04 OR HIGHER TO PERFORM THIS PROCEDURE.**

**SUBJECT:**

Flash: Transmission Shift And Drivability Enhancements

**OVERVIEW:**

This bulletin involves reprogramming the Transmission Control Module (TCM) with the latest available software.

**MODELS:**

2016 (FB) Fiat 500X

**NOTE: This bulletin applies to vehicles built on or before **\*\*May 21, 2015 (MDH 0521XX)\*\*** equipped with a 2.4L engine (Sales Code ED6) and 948TE automatic transmission (Sales Code DFH).**

**SYMPTOM/CONDITION:**

**\*\*A small number of 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):**

- P0711 - Transmission Fluid Temperature Sensor A Circuit Range-Performance
- P1CC9 - Unable to Engage Gear
- P1D98 - Incorrect Gear Ratio Clutch B or D Defective
- P1DAD - Input Shaft-Output Shaft Direction Correlation
- U1424 - Implausible Engine Torque Signal Received**\*\***

In addition, the customer may also experience one or more of the following transmission related conditions:

- **\*\*Less than desired 1-2 upshift on tip-in acceleration.\*\***
- Less than desired accelerator pedal response in Sport and TractionPlus modes.
- RPM flare at engine start.
- Less than desired idle performance when shifting into DRIVE or REVERSE following a cold start.

***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 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:***

**CAUTION: The Engine Control Module (ECM) must be updated to the latest available software at the conclusion of this repair procedure. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the ECM software.**

**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 TCM with the latest available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the "HELP" tab on the upper portion of the wiTECH window, then "HELP CONTENTS." This will open the Welcome to wiTECH Help screen where help topics can be selected.
2. Clear any DTCs that may have been set in any modules due to reprogramming. The wiTECH application will automatically present all DTCs after the flash and allow the them to be cleared.
3. Verify the ECM is programmed with the latest available software. Refer to all applicable published service bulletins for detailed repair procedures and labor times regarding updating the ECM software.

***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>
**18-19-05-BF**	Module, Transmission Control (TCM) - Reprogram (1 - Semi-Skilled)	21 - Automatic Transmission	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 choose which failure code to use. If the customer came in with an issue and the dealer found updated software 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, than 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