



NUMBER: 08-110-17

GROUP: 08 - Electrical

DATE: November 22, 2017

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THIS BULLETIN SUPERSEDES SERVICE BULLETINS 21-038-15 REV. B, DATED OCTOBER 17, 2015 AND 21-048-15 REV. A, DATED OCTOBER 08, 2015, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS**** AND INCLUDES 2016 MY BU AND 2017 MY BU AND FB, MARKETS, BU BUILD DATE, SALES CODE, DIAGNOSTIC TROUBLE CODES (DTCS), UPDATED FAILURE CODE STATEMENT AND LOP.**

THIS SERVICE BULLETIN IS ALSO BEING RELEASED AS RAPID RESPONSE TRANSMITTAL (RRT) 15-097. ALL APPLICABLE SOLD AND UN-SOLD RRT VIN's HAVE BEEN LOADED. TO VERIFY THAT THIS RRT SERVICE ACTION IS APPLICABLE TO THE VEHICLE, USE VIP OR PERFORM A VIN SEARCH IN TECHCONNECT. ALL REPAIRS ARE REIMBURSABLE WITHIN THE PROVISIONS OF WARRANTY.

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: Drivetrain Control Module (DTCM) Diagnostic and System Improvements

OVERVIEW:

This bulletin involves reprogramming the DTCM with the latest available software.

MODELS:

2015 - **2017**	(BU)	Jeep Renegade
2016 - **2017**	(FB)	FIAT 500X

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

NOTE: This bulletin applies to vehicles built on or before **October 05, 2017 (MDH 1005XX)**** equipped with a ****9SPD 948TE Auto Transmission (Sales Code DFH)**** and BU vehicles equipped with Selec-Terrain System and Selec-Terrain Sys W/Rock mode (Sales Codes XAB and XAF) and FB vehicles equipped with All Wheel Drive (AWD).**

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following DTCs:

- **C2502-64 - Signal Plausibility Failure.
- C2210-92 - ETM Hall Sensor Performance Or Incorrect Operation.
- C2220-54 - ETM Calibration Error Missing Calibration.**
- C2020-01 - ECU Internal Fault - General Electrical Failure.

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 a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe 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. Inspect/Reprogram the DTCM with the latest available software. Detailed instructions for flashing control modules using the wiTECH Diagnostic Application are available by selecting the application's "HELP" tab.
2. Using wiTECH, restore configuration and align proxi. This routine is available under the 'Diagnostic Procedures' tab found on the home, 'Vehicle View', page of wiTECH.
3. 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
18-19-07-9L	Module, Drive Train Control (DTCM) - Reprogram (0 - Introduction)	6 - Electrical And Body Systems	0.2 Hrs.

NOTE: The expected completion time for the flash download portion of this procedure is approximately 2 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 depending on if this is a Rapid Response Transmittal (RRT) or 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 must be supplied.
- The failure code "RF" (Required Flash) can no longer be used on Service Bulletin flashes. The "RF" failure code can only be used on RRT.
- The "RF" failure code is required for essential module flash/reprogramming and can only be used after confirmation that the VIN is included on the RRT.**

CC	Customer Concern
RF	Required Flash