



NUMBER: 08-027-21

GROUP: 08 - Electrical

DATE: February 27, 2021

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This bulletin supersedes Technical Service Bulletin (TSB) 08-075-18, date of issue May 24, 2018, which should be removed from your files. All revisions are highlighted with **asterisks**** and include additional model years, symptoms/conditions and LOP.**

This Technical Service Bulletin (TSB) has also been released as a Rapid Response Transmittal (RRT) 15-097. All applicable Sold and Un-Sold RRT VINs have been loaded. To verify this RRT service action is applicable to the vehicle, use VIP or perform a VIN search in DealerCONNECT/Service Library. All repairs are reimbursable within the provisions of warranty.

SUBJECT:

Flash: Drivetrain Control Module (DTCM) Diagnostic and System Improvements

OVERVIEW:

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

MODELS:

2015 - **2018**	(BU)	Jeep Renegade
2015 - 2018	(FB)	FIAT 500X

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

NOTE: This bulletin applies to BU vehicles equipped with a 9SPD 948TE Auto Transmission (Sales Code DFH) and Selec-Terrain System and Selec-Terrain Sys W/Rock mode (Sales Codes XAB and XAF) or Selec-Terrain (Tm) System For Diesel (Sales Code XA2).

NOTE: This bulletin applies to FB vehicles equipped with a 9SPD 948TE Auto Transmission (Sales Code DFH) and 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 Diagnostic Trouble Codes (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.

****This software update also includes the following enhancements**

- Reduce Rear Drive Module (RDM) noise during disconnect phase at speeds above 45 kph (28 mph) **North America Only.** ******

DIAGNOSIS:

Using a Scan Tool (wiTECH) with the appropriate Diagnostic Procedures available in DealerCONNECT/Service Library, 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 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
18-19-07-9X	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 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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