STELLANTIS
PARTS & SERVICES

Technical Service Bulletin (TSB)

Flash: Drivetrain Control Module (DTCM) Updates

REFERENCE:	**TSB:** 08-113-23 **GROUP** 08 - Electrical	**Date:**	May 3, 2023	**REVISION:**	–
VEHICLES AFFECTED:	**2022 (WL) Jeep Grand Cherokee** **This bulletin applies to vehicles equipped with Quadra-Trac II (R) 4WD System (Sales Code DKA).**			**MARKET APPLICABILITY:** ☒NA ☒IAP ☒EE ☒MEA ☒SA ☒CH	
CUSTOMER SYMPTOM:	**Customers may experience a Malfunction Indicator Lamp (MIL) or warning lamp illumination. Upon further investigation the technician may find that the multiple Diagnostic Trouble Codes (DTCs) have been set:** • C1403-29 - Transfer Case Range Position Sensor-Signal Invalid. • C14AA-62 - Transfer Case Motor Position Sensor Supply-Signal Compare Failure.				
CAUSE:	**DTCM software.**				

This Technical Service Bulletin (TSB) has also been released as a Rapid Service Update (RSU) 23-123, date of issue May 03, 2023. All applicable RSU VINs have been loaded. To verify this RSU 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. This RSU will expire 18 months after the date of issue.

REPAIR SUMMARY:

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

CLAIMS DATA:

Labor Operation No:	Labor Description	Skill Category	Labor Time
18-19-07-AG	Module, Drivetrain Control (DTCM) - Inspect s/w Level (Sales Code DKA Only) (0 - Introduction)	6 - Electrical and Body Systems	0.2 Hrs.
18-19-07-AH	Module, Drivetrain Control (DTCM) - Inspect and Reprogram (Sales Code DKA Only) (0 - Introduction)	6 - Electrical and Body Systems	0.3 Hrs.
Failure Code	RF	Required Flash	
	CC	Customer Concern	

The dealer must choose which failure code to use depending on if this is a Rapid Service Update (RSU) or Technical Service Bulletin.

- 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 RSU.
- The failure code “RF” (Required Flash) can no longer be used on Technical Service Bulletin flashes. The “RF” failure code must be used on an RSU.
- If the customer’s concern matches the SYMPTOM/CONDITION identified in the Technical Service Bulletin, failure code CC is to be used. When utilizing this failure code, the 3C’s must be supplied.

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 a customer’s VIN is listed in VIP or your RSU VIN list, perform the repair. If any vehicle not on the VIN list exhibits any of the symptom listed above in the customer symptom section, perform the Repair Procedure.

SPECIAL TOOLS/EQUIPMENT:

Description	Ref. No.	Notes
wiTECH or Equivalent	–	–

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, check DTCM part number. If the flash part number can be read, the flash should be restarted.

CAUTION! The supplier of this DTCM ECU has determined this DTCM may not be abort recoverable if the flash process is interrupted or aborted during the flash reprogramming process. This is an DTCM ECU issue and should not be mistaken for a wiTECH tool issue.

1. Is the vehicle on the RSU VIN list?
   - YES >>> Proceed to Step 2.
   - NO >>> Proceed to Step 3.
2. Does the DTCM have the latest software already installed?
   - YES >>> This bulletin has been completed. Use inspect LOP (18-19-07-AG) to close the active RSU.
   - NO >>> Proceed to Step 3.
3. Using wiTECH create a vehicle scan report.
4. With the engine running, run the DTCM routine “DTCM Replacement with Value Transfer” using the option “Save values from the Original DTCM”. Choose the “2 - Speed Transfer Case”.

   NOTE: Is it not required to run the DTCM routine “DTCM Replacement with Value Transfer using the option “Write values to the New DTCM″ after reprogramming.
5. 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.
6. Perform a sleep cycle to ensure the module is updated correctly. **Make sure all accessories are off, place the ignition in the off position and close all doors. The key fob must be at least 6.0 m (20 ft.) from the vehicle, while monitoring the PRNDL lights to ensure they have turned off, this will indicate that the bus is in a sleep cycle.**

   NOTE: The wiTECH tool must be removed from the OBD port.

7. 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. This bulletin has been completed.

POLICY:
Reimbursable within the provisions of the warranty.