



STAR ONLINE PUBLICATION



Case Number: S2521000005

Release Date: December 2025

Symptom/Vehicle Issue: The customer states the ABS and Traction Control warning comes on. Vehicle sets wheel speed BSCM/ABS fault codes.

Discussion: If the vehicle has set any of the listed wheel speed codes, the DTCM will adjust t-case clutch performance for the codes when active. This will cause degraded DTCM t-case clutch performance once the wheel speed issues are corrected. Codes: C0501, C0502, C0503, C0504, C0505, C0507, C0508, C0509, C050A, C050B, C050D, C050E, C050F, C0510, C0511, C0513, C0514, C0515, C0516, C0517, C0555, C0556, C0557, C0558, C05A3, C05A4.

Repair Procedure: A Transfer Case clutch learn must be done to mitigate a potential worn clutch DTC of C1438-07. Once the wheel speed codes have been diagnosed and repaired, perform a DTCM calibration routine procedure in WiTech as show below. This will accommodate any wear accumulated when the wheel speed faults were active.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, contact or Service Library entry if no solution is found.



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1. Screenshot the MPT Calibration Data:

2025 JEEP GRAND CHEROKEE 2.0L I4 DOHC DI TURBO PHEV ENGINE
1C4RJYB61S8665272

DTCM
Drive Train Control Module

Flash DTCs **Data** Misc Functions System Tests Actuators Details Configuration

Type: All Record Units: Imperial Data Groups Filter Selections Crash Selections Add To Vehicle Data Clear Selections 0.750 s Search

MPT Calibration Data

NAME	MIN	VALUE	MAX	UNIT	TYPE
Calibration Status		-			Sensors

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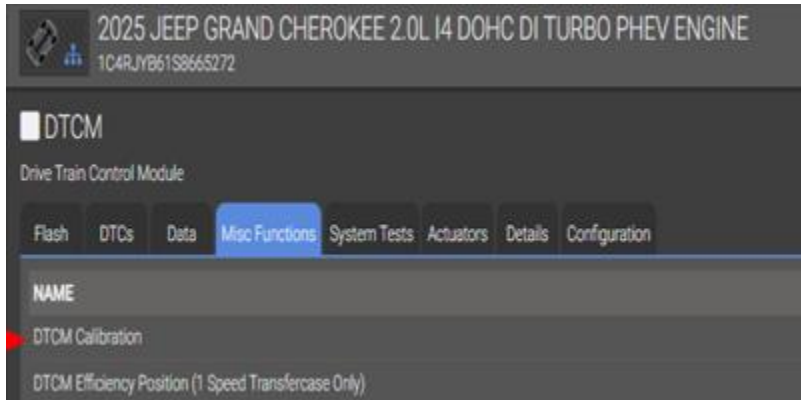
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1. Then run the DTCM calibration shown below. WiTech will run the technician through each step once the process is started:



Verification: Test drive to verify the vehicle shifts are smooth and no erratic AWD action

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