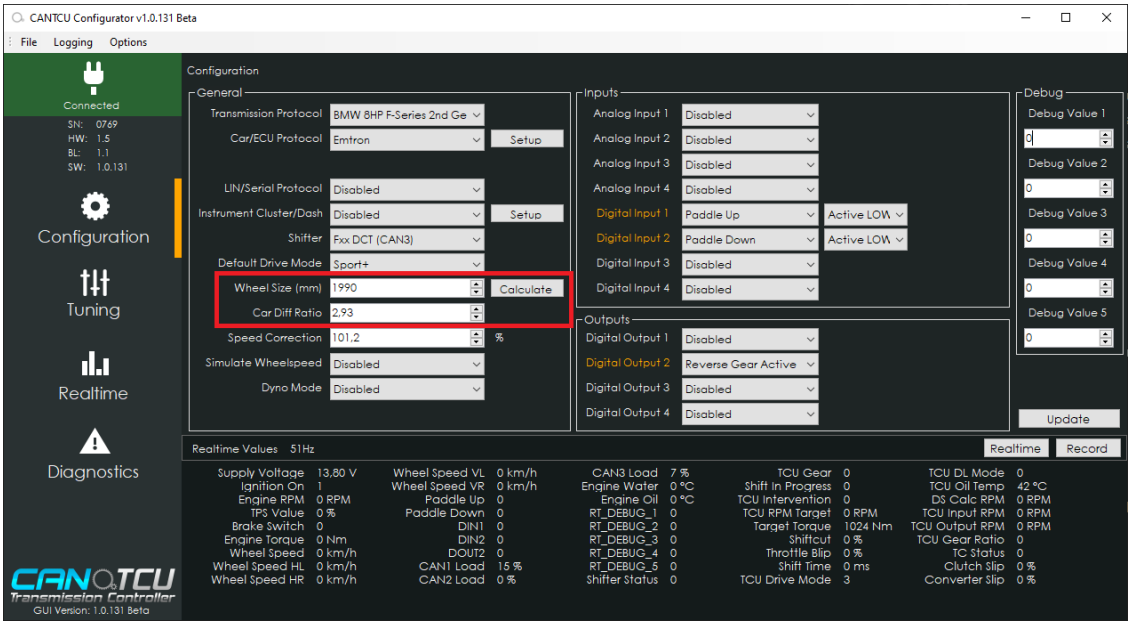
CANTCU – Differential Ratio Calibration

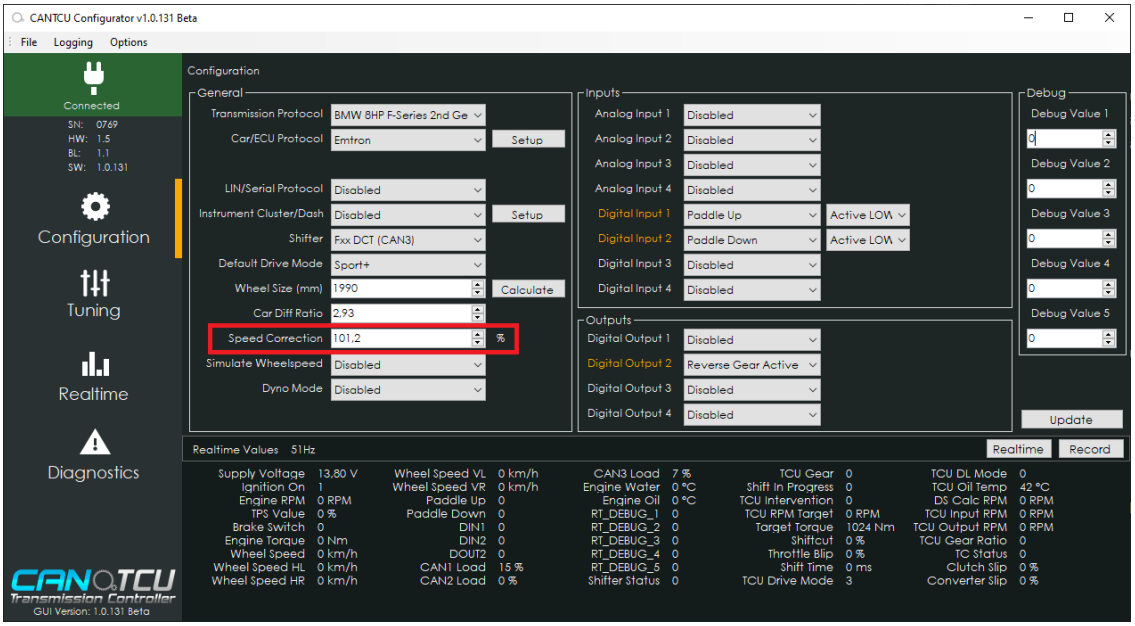
Differential ratio needs to be calibrated for proper functionality of the transmission. It is a simple process that requires driving at constant speed and observing/making adjustments of realtime values in CANTCU Configurator. The calibration can be performed on a lift. The higher the speed, the more precise the calibration will be. At minimum a speed of 50km/h is recommended to achieve a good calibration.

1. Open **CANTCU Configurator** and verify correct **Wheel Size** and **Differential Ratio** in the **Configuration**-section.



2. Drive the car using 1:1 gear ratio (5th gear on F-DCT, 7th gear on E-DCT) and follow Realtime-values **TCU Output RPM** and **Engine RPM**. If you are unable to watch the values during driving, you can record a log and stop to check values afterwards.

3. If the difference of the two aforementioned values is greater than 15 RPM at decent speed (>50km/h), you need to adjust the **Speed Correction** factor (in **Configuration**-section).



I. **Engine RPM** < **TCU Output RPM** ⟶ Decrease **Speed Correction** factor
II. **Engine RPM** > **TCU Output RPM** ⟶ Increase **Speed Correction** factor

Adjust the **Speed Correction** factor using 1-2% increments until you are close, then fine tune using 0.1% increments.

NOTE! If you experience inaccurate **TCU Target RPM** requests while shifting after a successful calibration, please make sure you have the correct differential ratio flashed to the transmission.