There are two methods that can be used to measure caster. The first method measures the actual caster value. The second method does not find the actual caster value but provides a side-to-side comparison. This is useful for example, to quickly investigate if caster is to blame for a vehicle pulling to one side (if caster is not equal the vehicle will pull to one side, but there are also other reasons for why a vehicle may be pulling).

**Method 1: True Value Caster Measurement**

**Step 1: Create Reference Line**

Center the steering wheel. Lay the plain toe plate (plate without the integrated camber gauge) down on the ground approximately 8” from the tire. The bottom of the plate should be pointing toward the vehicle.

**Step 1b: Align the angle of the reference plate**

Visually align the edge of the plate so it's approximately parallel to the side of the vehicle, a indicated by the red line. This can be approximated as the precision of this will not affect the accuracy of the caster measurement.
Step 2: Turn the wheel being measured inwards
Turn the steering wheel so the front of the wheel being measured is pointing inwards. Hold the camber plate sideways to the wheel, with the caster sight hole toward the rear of the vehicle. Use the caster hole to check the angle of the wheel. Adjust the angle of the wheel as needed until the edge of the caster sight is parallel to the reference plate.

Step 3: Zero the digital readout
When the angle has been set, hold the camber plate to the wheel in the camber measuring orientation, then power on the digital readout and zero it. Do not turn off the digital readout.

Step 4: Turn the wheel outwards
Turn the steering wheel so the front of the wheel being measured is pointing outwards. Hold the camber plate to the wheel, with the caster sight hole toward the front of the vehicle. Use the caster sight to check the angle of the wheel. Adjust the angle of the wheel as needed until the edge of the caster sight is parallel to the reference plate.
Step 5: Calculate Caster

Place the camber plate on the wheel as you would to measure camber, and note the value. To calculate caster multiply the camber value displayed by 2. The result is the caster measurement.

Below the digital readout is displaying 4.25, so the caster is 4.25*2 = 8.5 degrees

Repeat the process on the other front wheel as desired.
Method 2: Caster Comparison

**Step 1:**
Turn the steering wheel 1 turn from center. Place the camber gauge on the wheel as you would to measure camber and zero the digital readout.

**Step 2:**
Turn the steering wheel 1 turn from center the opposite direction. Place the the camber gauge on the wheel and note the value displayed on the digital readout. Repeat on the other front wheel.

**Step 3:**
Compare the two measurements. Again this is not the real caster reading itself, but quick and easy way to compare the side to side caster values. The two values should be approximately equal.

If you have any questions or issues, please contact us at info@TenhulzenAutomotive.com