

ECS TUNING

Schwaben Magnetic Camber/
Caster Gauge and Wheel Mount
Kit Usage Instructions



schwaben

®

Perform alignment adjustments at home or at the track

The Schwaben Magnetic Camber/Caster gauge allows you to quickly take alignment angle measurements. It can be attached directly to a wheel hub, or even easier, our Schwaben Wheel Mount Kit gives you a perfect mounting surface that you can count on for easy mounting and accurate measurements.

The Schwaben Wheel Mount has a distinct advantage in that it can be kept clean until needed, providing a consistent machined surface for easy mounting of a magnetic Camber/Caster gauge, resulting in accurate measurements each and every time.

[ES2836679](#)



[ES2836676](#)



Do not leave the gauge in the sunlight or store in a location over 120 degrees Fahrenheit. Vial breakage could occur due to heat expansion.

These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

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INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety. Please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- If using an automotive lift, be sure and utilize the factory specified lift points. Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- When lifting a vehicle using a jack, always utilize the factory specified lift points. Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear. **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.

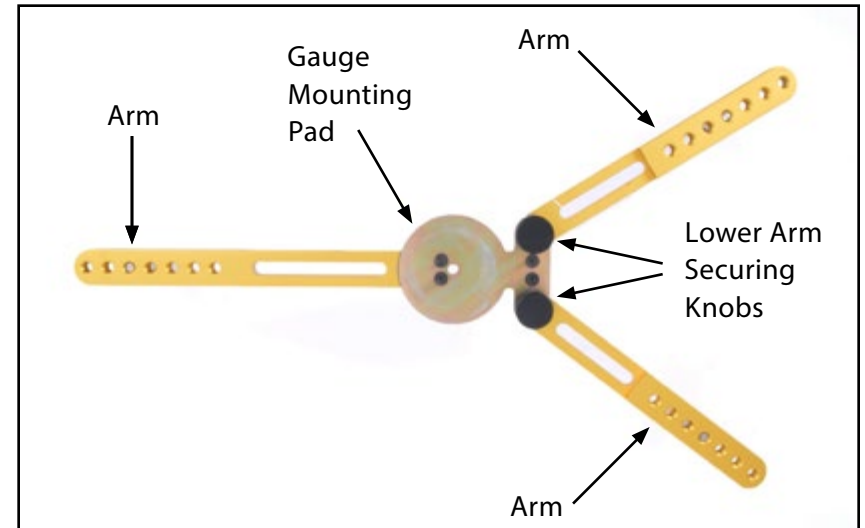


Never get underneath a vehicle that is supported only by a jack. Always make sure that the vehicle is securely supported on jack stands.

WHEEL MOUNT INSTALLATION

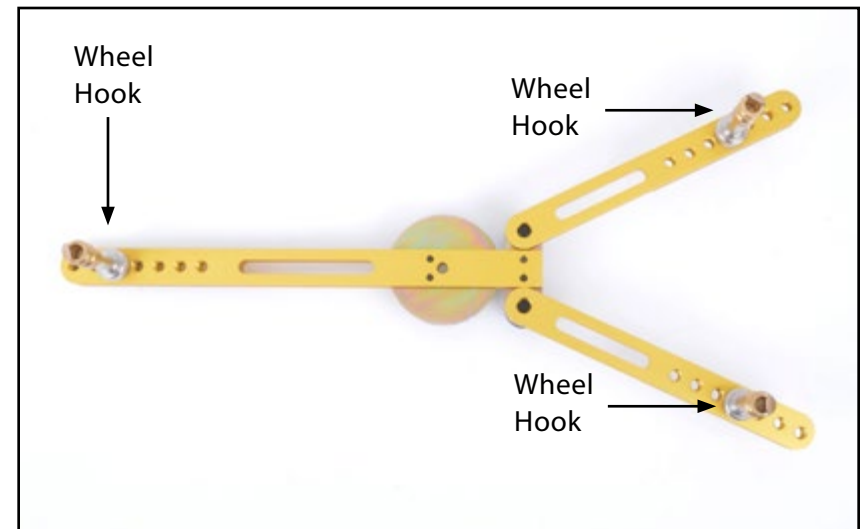
Step 1:

Here we are looking at the front, or gauge side of the wheel mount. You can see the gauge mounting pad, the arms, and the lower arm securing knobs.



Step 2:

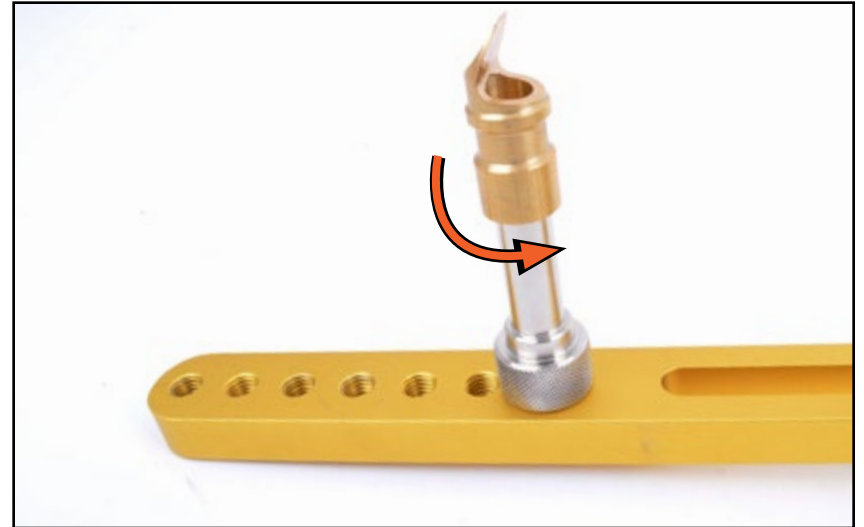
Now let's flip it over and look at the back, or wheel side. You can see all three of the wheel hook supports threaded into the arms.



WHEEL MOUNT INSTALLATION

Step 3:

Note that the wheel hook supports can be moved to any of the threaded positions on the arms, and that the hooks will rotate on the end of the hook support.



Step 4:

Move the wheel hook supports into the proper holes to allow fitment on your wheel size, then position the hooks over the lip of the wheel.

Swing the lower arms out until the wheel mount is tight on the wheel then tighten the lower arm securing knobs.



USING THE CAMBER/CASTER GAUGE

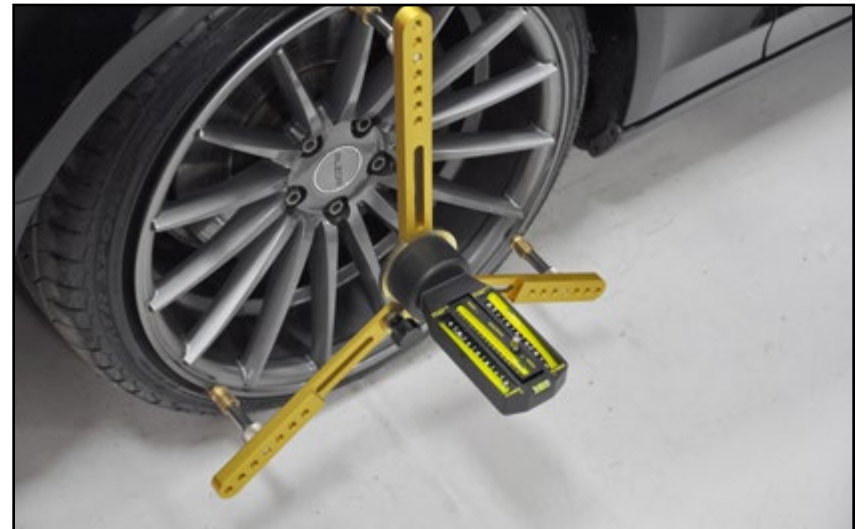
Step 1:

Park your vehicle on a level surface with the wheels in the straight ahead position. For the convenience and accuracy that it provides, we are using the Schwaben Wheel Mount, however you can mount the Schwaben Camber/Caster gauge directly to the center hub if it is exposed and free of any dirt or burrs.



Step 2:

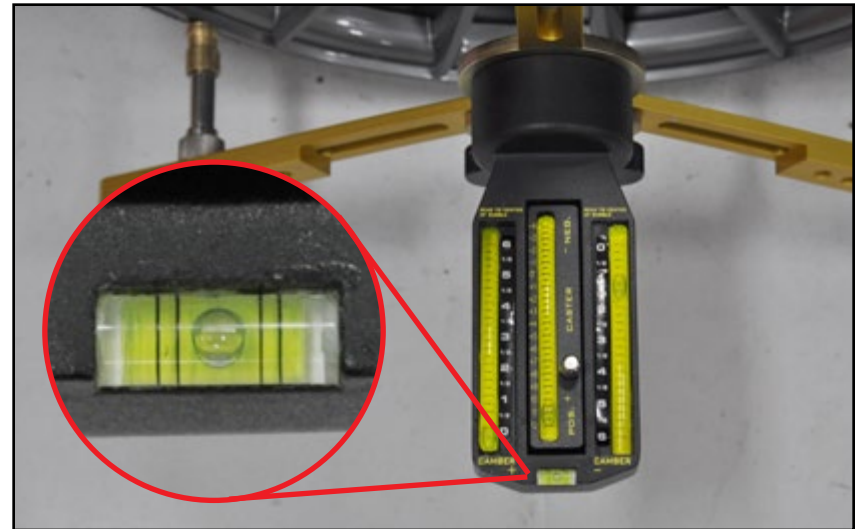
Attach the camber/caster gauge to the mounting pad in the center of the wheel mount.



USING THE CAMBER/CASTER GAUGE

Step 3:

Rotate the gauge at the wheel mount until the vial at the end indicates level.

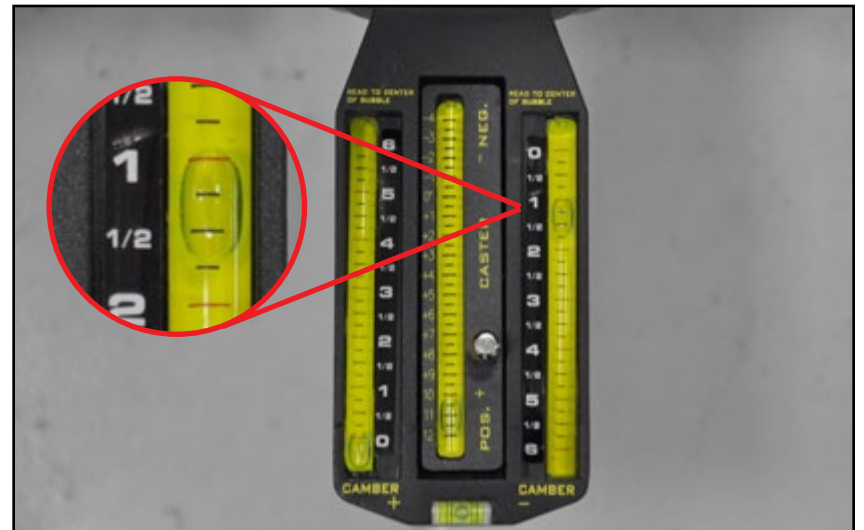


Step 4:

Read the camber directly on one of the two vials on either side of the gauge, noting the following:

- The vials are marked + and -
- Read the line nearest to the center of the bubble
- Each line is 1/4 degree

In this example the camber reads: - 1 3/8 degrees



USING THE CAMBER/CASTER GAUGE

Step 5:

To read caster, begin by turning the wheels 20 degrees in the following direction:

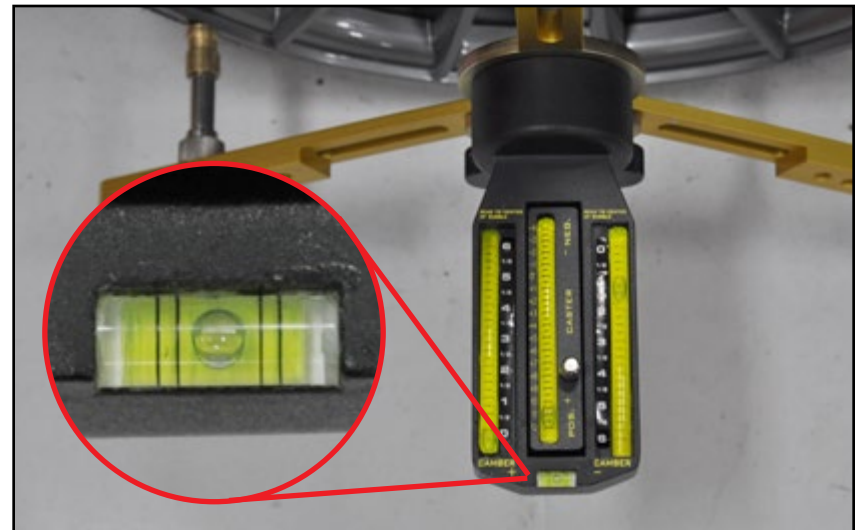
- To the right if measuring the RF
- To the left if measuring the LF

If you do not have turn plates, the corners of the gauge are cut at a 20 degree angle that can be used as a reference. Turn the wheels so the angle is parallel to the side of the car.



Step 6:

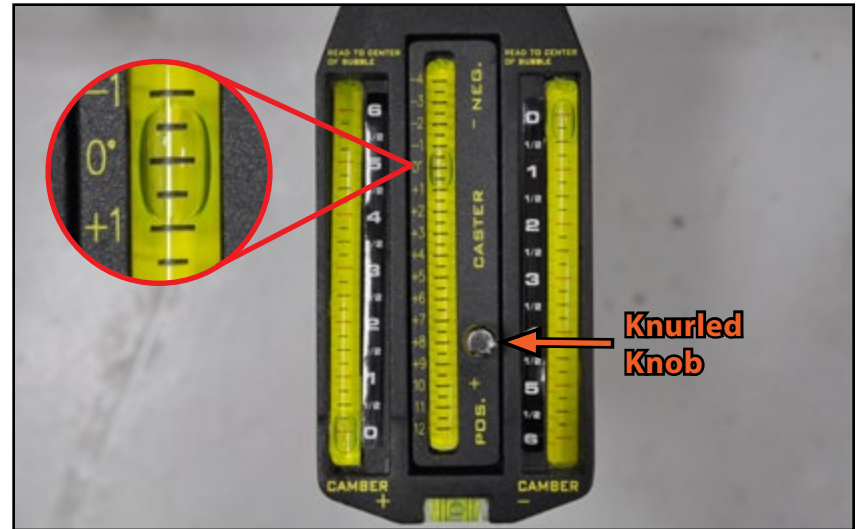
Now rotate the gauge at the wheel mount until the vial at the end reads level.



USING THE CAMBER/CASTER GAUGE

Step 7:

Turn the knurled knob for the center caster vial until it reads 0 degrees.



Step 8:

Turn the wheels back past center to 20 degrees in the opposite direction (so you have achieved a total swing of 40 degrees).



USING THE CAMBER/CASTER GAUGE

Step 9:

Rotate the gauge at the wheel mount until the vial at the end indicates level.



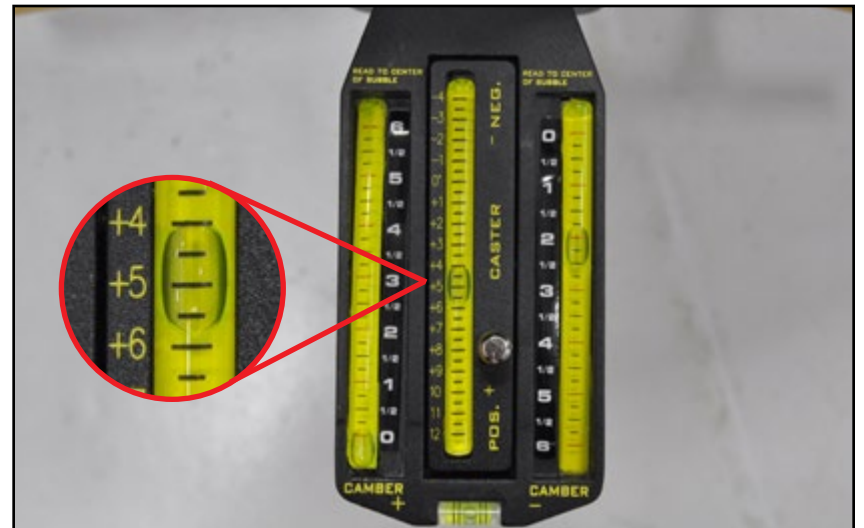
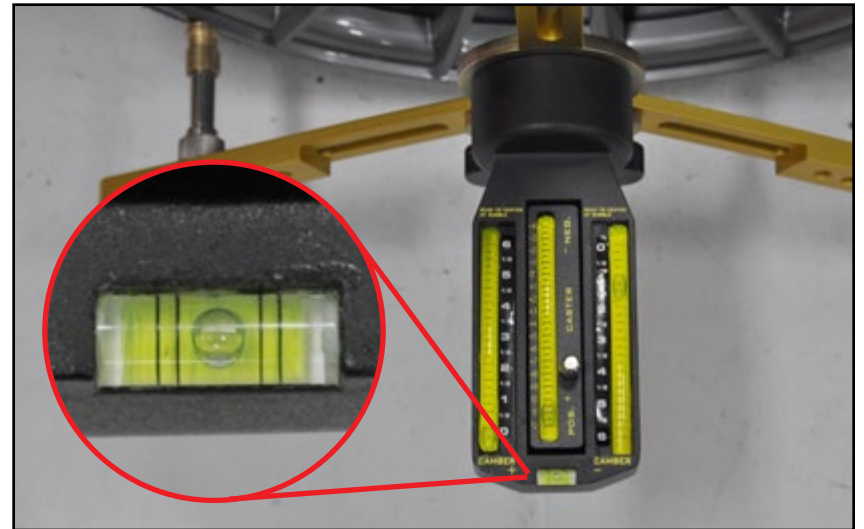
DO NOT turn the knurled knob.

Step 10:

Read the caster directly on the center vial.

In this example the caster reads: +5 degrees

If you need to measure more than 12 degrees caster, turn the wheels 20 degrees, then center the caster vial at - (negative) 4 degrees instead of 0. Proceed as normal and add 4 degrees to the reading. This will provide you a total range of 16 degrees.



SCHWABEN - BUILD THE ULTIMATE TOOL COLLECTION

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