



Instructions For No. 78290 Digital Caster/Camber Gauge

- 1) Find a level place to set up your front end. This unit reads camber very accurately. Unlevel ground will affect that accuracy. See below if ground is not level.
- 2) Attach the gauge to the spindle. Be sure that the surface you attach to is machined square to the spindle and doesn't have any nicks or burrs. **BE SURE WHEELS ARE POINTED STRAIGHT AHEAD WHEN SETTING CAMBER.** Rotate the gauge until the small vial on the top of the gauge shows level.
- 3) **CAMBER:** Turn on the **AccuLevel™** Digital Readout by pushing "ON/OFF". Camber is read directly on the display to $.1^{\circ}$ ($1/10^{\circ}$). See separate **AccuLevel™** instructions if needed. **On the left side of the display ▲ pointing up indicates negative camber (top of tire in). ▼ pointing down indicates positive camber (top of tire out). Race cars usually use negative camber on RF and positive camber on LF.**
- 4) **CASTER** is measured with the vial on the top - from 4° negative to 12° positive. First turn the wheels 20° to the right when setting the RF or 20° left when setting LF. Rotate gauge until it is level.
- 5) Turn the knurled nob in the center until the center caster vial reads 0° . Now turn the wheels back past center to 20° the opposite way - for a total of 40° . Rotate the gauge again to level (DON'T turn knurled knob). Read the Caster directly on the vial to the center of the bubble. Each line is $1/2^{\circ}$.
- 6) Adjust the caster and camber as needed. Each time you make a change bounce on the front end to settle the suspension. **NOTE:** Adjusting the caster may have an effect on the camber and vice versa. Tighten bolts & double check all settings.
CASTER NOTE: If you wish to measure caster to $.1^{\circ}$ ($1/10^{\circ}$) on the digital readout please see supplemental instructions. Caster measured with the vial on top is to $1/2^{\circ}$.

IF GROUND IS NOT LEVEL : Before checking camber remove **AccuLevel™** and place on ground parallel to axle centerline. If it does not read 0.0° push "ZERO" (may be marked "C" on some models). Replace **AccuLevel™** in gauge and proceed as above. This must be done on each side of the car and will compensate for non-level ground. Push "ZERO" (or "C") again to go back to normal (absolute) operation.

See the separate instructions for the **AccuLevel™** if needed. It can be removed and used for other measurements. Simply slide **AccuLevel™** out (it's held in place with magnets).

Warning:

Do Not leave the gauge in the hot sunlite or store in a place over 120° F. The digital display may not be readable and/or breakage of the vials could occur due to heat expansion.

Once it cools down the digital display should be visible again. Replacements for broken vials can be ordered from any authorized dealer or the factory. Replacement is simple with no loss of accuracy.

