



## Instructions For No. 78295 *QuickSet™* Digital Caster/Camber Gauge

ADJUSTING THE *QuickSet™* TO YOUR RIMS: Unfold the lower arms until they stop. To adjust the feet to your rim: Hold against the rim with the gauge at approximately spindle centerline. Select one of the threaded holes on the lower arms that is closest to the outer lip of your rim. Move both feet to these holes and hand tighten. Now loosen the upper foot and slide it up until it also touches the outer lip of your rim. Hand tighten. At this point *QuickSet™* should just fit inside the outer lip of your rim with very little clearance.

1) Find a level place to set up your front end. This unit reads camber and caster very accurately. Unlevel ground will affect that accuracy.

2) Hold the *QuickSet™* against the wheel and rotate the gauge until the small vial on the top of the gauge shows level.

BE SURE WHEELS ARE POINTED STRAIGHT AHEAD WHEN SETTING CAMBER.

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 a ▲ pointing up indicates negative camber (top of tire in). A ▼ pointing down indicates positive camber (top of tire out). Race cars usually use negative camber on the RF and positive camber on the LF.

4) **CASTER** is measured with the *AccuLevel™*. First turn the wheels  $15^\circ$  to the right when setting the RF or  $15^\circ$  left when setting LF. Rotate the gauge until level. The  $15^\circ$  must be done accurately. An error of even 1 or  $2^\circ$  turning will give a caster error.

5) Turn on the *AccuLevel™* and push CASTER, then ZERO. The display will 'flash'. Now turn the wheels back past center to  $15^\circ$  the opposite way - for a total of  $30^\circ$ . Rotate the gauge again to level. Read the Caster directly on the *AccuLevel™* to  $1/10^\circ$ .

**CASTER NOTE:** This amount of sweep -  $15^\circ$  - is different from vial type gauges.

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.

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

**NOTE:** If display flashes on and off *AccuLevel™* is in Caster mode and will not read absolute angles correctly. Push CASTER button to exit Caster Mode.

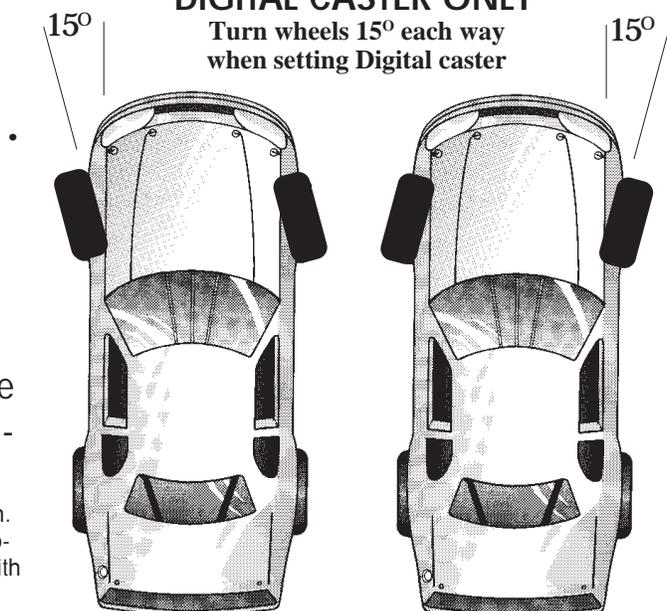
### Warning:

Do Not leave the gauge in the hot sunlite or store in a place over  $120^\circ$  F. The digital display may not be readable.

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 quick and simple with no loss of accuracy.

### DIGITAL CASTER ONLY

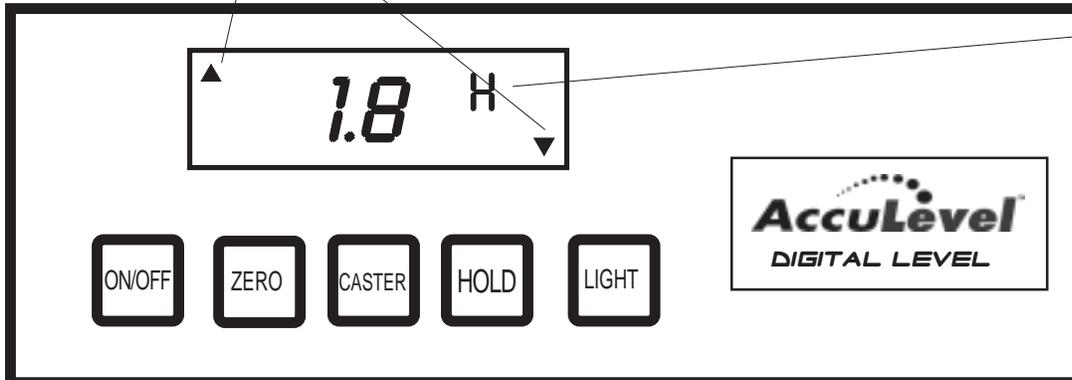
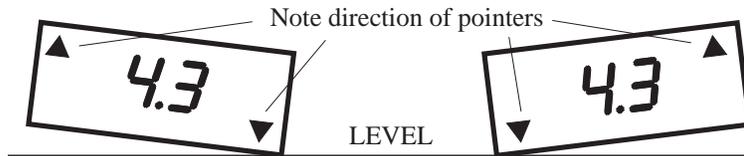
Turn wheels  $15^\circ$  each way when setting Digital caster



**AccuLevel™ (ver. 4)** Digital Level Measurement from 0.0° to 90.0°

Pointers on display - ▲ - show direction of tilt.

(If AccuLevel™ is used for measuring very small angles - under 2° - this feature will tell you which way the tilt is)



**H** will ONLY be on if the unit is holding a reading or in calibration

**NOTE:** AccuLevel™ is very sensitive to small angle changes. Some functions described below will not activate unless the unit is held very steady.

**NOTE:** This Ver. 4 AccuLevel™ has 2 modes of operation. 1) In Normal angle measurement mode the display is steady. 2) In Caster Mode the display flashes (and will not measure absolute angles). Push CASTER button to exit Caster mode and go back to Normal angle measurement.

**Turn on:** Push ON/OFF. AccuLevel™ shuts off automatically after 15 minutes to save battery life. Batteries should last a year or more in normal use. See back side for battery door. Replace with 2) AAA alkaline batteries. **Recalibrate when you change batteries.**

**Zero:** AccuLevel™ maintains its zero when shut off and **DOES NOT REQUIRE ZEROING.**

**Compare one angle to another:** The ZERO button is ONLY used to compare one angle to another. Place AccuLevel™ on a surface and push ZERO. The display will go to 00.0. Move to a different surface to compare the difference. Push ZERO again to return to normal use.

**To hold a reading:** Push HOLD and release. The display will show **H** and flash. When **H** stops flashing (approx. 5 sec.) the reading is held on the display. Push HOLD again to go back to active reading. **NOTE:** AccuLevel™ MUST be held absolutely steady during this 5 seconds.

**To CALIBRATE:** Place AccuLevel™ on a reasonably level surface (does not need to be perfectly level). Turn on, then push ON/OFF again and hold for 5 seconds until unit shuts off. Turn unit on again and **-1-** will appear on the display. Now push ZERO. **-1-** **H** will begin to flash and in a few seconds **-2-** will appear. **Turn unit around 180° in the same spot** and push ZERO again. **-2-** **H** will begin to flash and in a few seconds normal readings will reappear. Calibration is now complete.

**CASTER (CASTER):** AccuLevel™ will display front suspension Caster when used in a specially designed Caster/Camber gauge (see Longacre catalog or website). See gauge instructions for details.

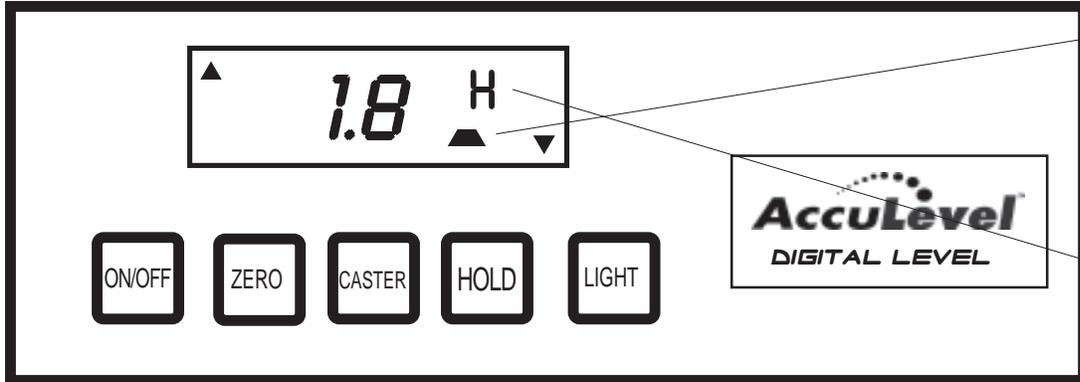
**DISPLAY BACKLIGHT (LIGHT):** AccuLevel™ Ver. 4 has a display back light.

**Do not drop the unit. Keep it clean and dry and avoid strong electrical or magnetic fields. Do not push 2 buttons at once. If it will not be used for several months remove batteries.**



# AccuLevel™ (ver. 4)

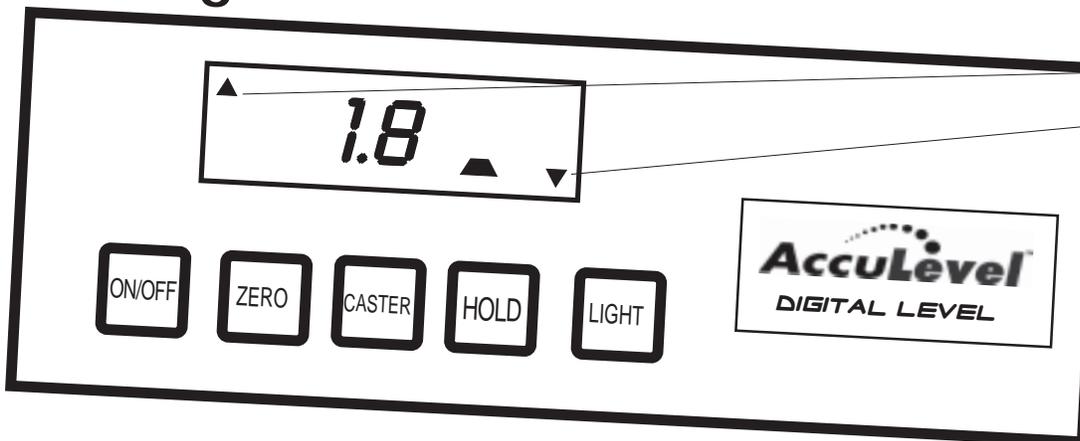
Digital Level Measurement from 0.0° to 90.0°



Must be on display for normal use. Push **ZERO** if it is not.

**H** will ONLY be on if the unit is Holding a reading or in calibration

## Negative Camber      Positive Caster

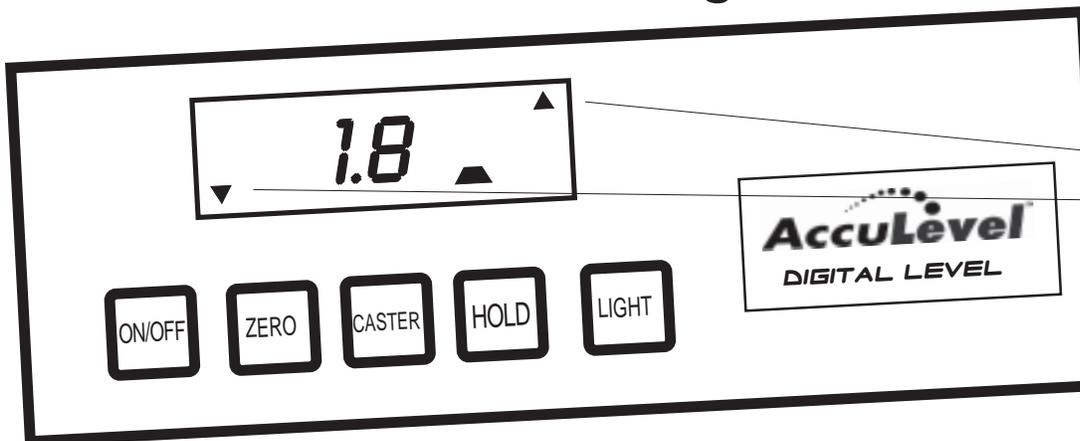


Indicates **NEGATIVE** Camber

OR

**POSITIVE** Caster

## Positive Camber      Negative Caster



Indicates **POSITIVE** Camber

OR

**NEGATIVE** Caster