Longacre®
Monroe, Wa 360 453 2030 www.longacreracing.com

Instructions For No. 78298 *QuickSet™* Digital Caster/Camber Gauge

ADJUSTING THE ***QuickSet™*** TO YOUR RIMS: This gauge is designed for aluminum wheels that don't have a 'lip' at the edge. Unfold the lower arms until they stop. To adjust the feet to your rim hold the gauge against the rim with the ***AccuLevel™*** at approximately spindle centerline. Select one of the threaded holes on the lower arms that is closest to the outer edge of your rim. Move both lower feet to these holes. Rotate the feet so the lip on the foot goes outside your wheel and hand tighten. Now loosen the upper foot and slide it up until it also touches the outer lip of your rim. Rotate the upper foot as above and hand tighten. At this point ***QuickSet™*** should just fit over the outer edge of your rim with very little clearance. Depending on your wheel and tire it may be necessary to remove some material from the lip of the foot. The flat part of the foot must not be modified and must sit squarely against the wheel.

1) If not in a shop find a level place to set up your front end. This unit reads camber and caster very accurately. Unlevel ground will affect that accuracy. SEE BELOW IF GROUND IS NOT LEVEL.

2) To set CAMBER and CASTER hold the ***QuickSet™*** against the wheel and 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° (1/10°). See separate ***AccuLevel™*** instruction if needed. BE SURE WHEELS ARE POINTED STRAIGHT AHEAD WHEN SETTING CAMBER.

4) To set CASTER turn on the ***AccuLevel™***, rotate the gauge until level, and push CASTER. Next turn the wheels 15° to the right when setting the RF or 15° left when setting LF, then push ZERO. (The 15° must be done accurately. An error of even 1° or 2° turning will give a caster error.) Now turn the wheels back past center to 15° the opposite way – for a total of 30°. You can set ***QuickSet™*** down while you are turning the wheels. Rotate the gauge again to level. Read the Caster directly on the ***AccuLevel™***.
CASTER NOTE: This amount of sweep – 15° – is different from vial type gauges.

5) 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 when done.

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.

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"**. 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"** again to go back to normal (absolute) operation.

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.
Once it cools down the digital display should be visable again.

DIGITAL CASTER ONLY

15° **Turn wheels 15° each way when setting Digital caster** **15°**

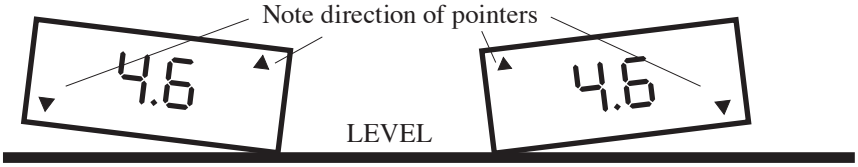
Longacre® Monroe, Wa. 360 453 2030 www.longacreracing.com 9/14 Ver. 5
SPECIAL

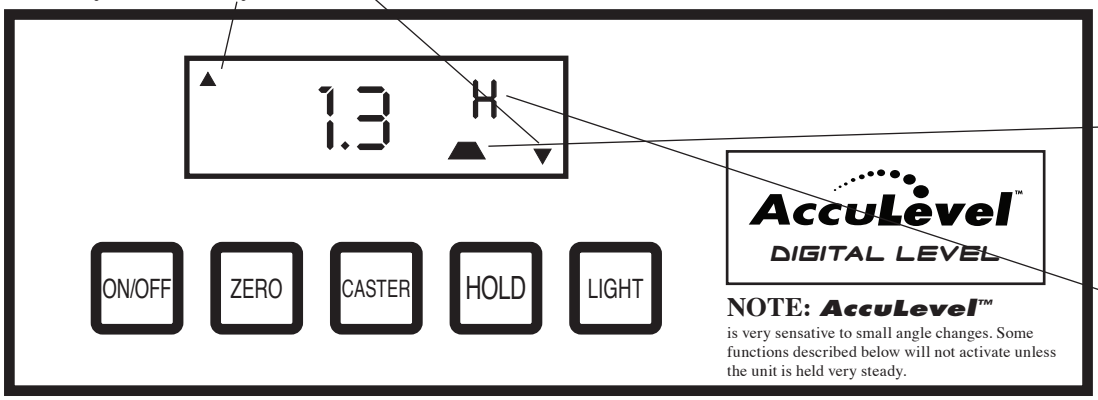
AccuLevel™ (ver. 5)

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.)





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

NOTE:
▲ must be on the display for normal (or caster) use. Push ZERO if not.

H will ONLY be on if the unit is holding a reading.

NOTE: This Ver. 5 ***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 5 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. **This latest Version 5 does NOT need recal 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 0.0. Move to a different surface to compare the difference. Push ZERO again to return to normal use. See note on ▲ above.

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 - a table is OK). Turn on, then push ON/OFF and ZERO at the same time. -1- will appear on the display. Now push ON/OFF. -1- will begin to flash and in a few seconds -2- will appear. **Turn unit around 180° in the same spot** and push ON/OFF again. -2- will begin to flash and in a few seconds normal readings will reappear. Calibration is now complete. (calibration NOT needed when changing batteries in Version 5)

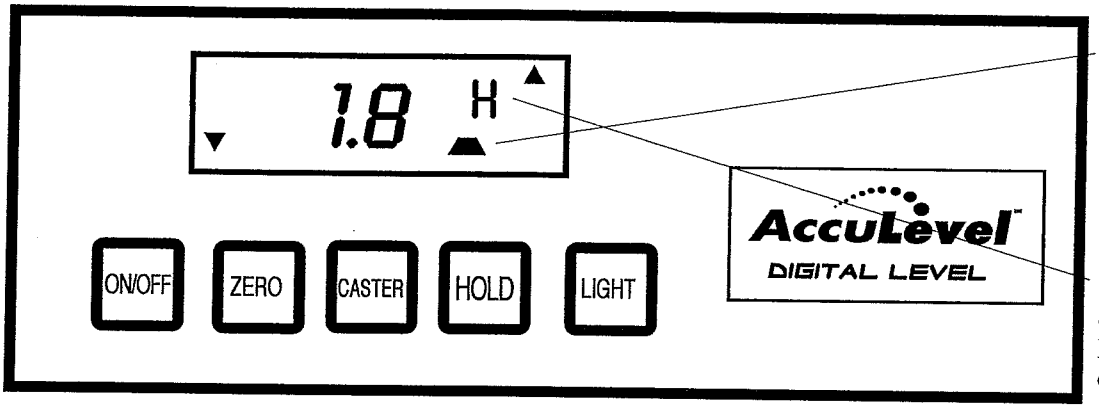
CASTER (CASTER)**:** ***AccuLevel™*** will display front suspension Caster when used in a specially designed Caster/Camber gauge (see Longacre catalog or website). See gauge instructions for details.

DISPLAY BACKLIGHT (LIGHT)**:** ***AccuLevel™*** Ver. 5 has a display back light. Push LIGHT.

Do not drop the unit. Keep clean & dry and avoid strong magnetic fields. Do not push 2 buttons at once (except to calibrate - see above). If it will not be used for several months remove batteries.

AccuLevel™ (ver. 5)

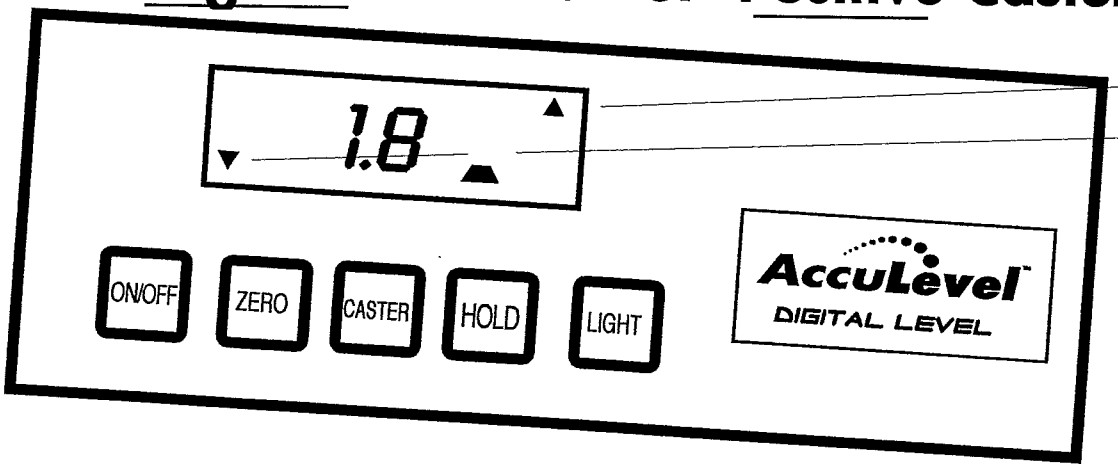
Digital Level Measurement from 0.0° to 90.0°



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 or Positive Caster

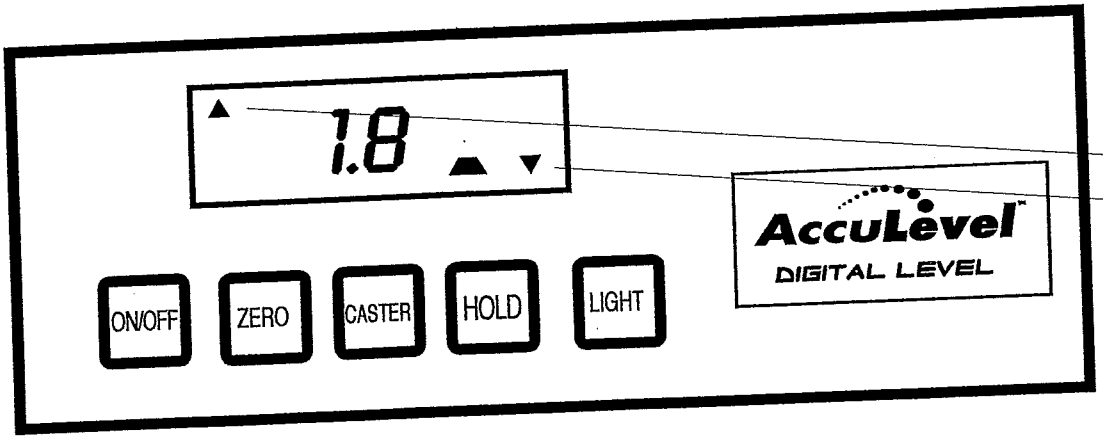


Indicates NEGATIVE Camber

OR

POSITIVE Caster

Positive Camber or Negative Caster



Indicates POSITIVE Camber

OR

NEGATIVE Caster