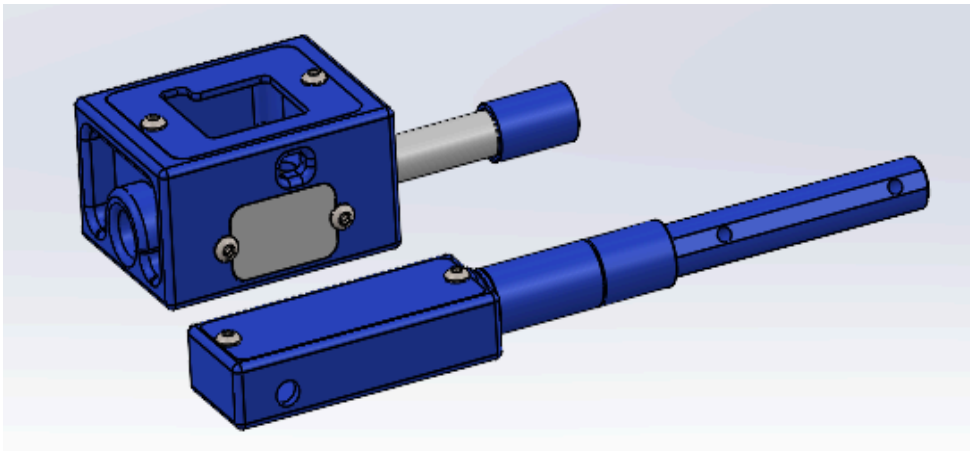
DIGITAL CAMBER GAUGE & LASER TOE GAUGE INSTRUCTIONS



Thank you for your purchase of the most advanced and precision camber/toe gauge system on the market. Using these gauges properly allows you to accurately adjust your kart to desired camber settings, as well as project a laser beam between the rear and front axles for proper toe and front end alignment. Please read the following instructions to get the most out of your purchase.

Your kits should include:

PM-091000ST OR PM-091000TW Laser Toe Gauge
1 PM-091020 Standard wall (ST) or 1 PM-091030 thin wall (TW) axle adapter.
1 PM-091040 2” Extension
1 battery pack with 2 AA batteries

PM-09100 Digital Camber Gauge
1 PM-091130/150 5/8-18 Spindle Adapter Shaft
1 PC-0915 Digital Protractor
1 USB charging cord

Camber settings and toe adjustment should be done on a flat, level surface (or preferably on scales), with the driver sitting in the kart in race position. We recommend setting toe first on the right and left side to desired settings, then camber, and then rechecking toe a second time (left & right sides) after camber adjustment.

Setting Toe

1. Insert the rear laser assembly into the rear axle of your kart with the proper axle adapter (standard wall or thin wall). Note: make sure the 2 spring plungers are adjusted properly in the axle adapter to ensure proper fit inside of the axle. Adjust if necessary.
2. Lock your steering shaft into position with the pitman arm positioned at 90° to the tie rods. A steering lock kit is required for this, which should have been included with your kart purchase.
3. Remove the spindle nut on the corresponding right or left front spindle and install the Digital Camber Gauge Assembly, by screwing the shaft adapter onto the end of the spindle axle. The thumb screw on the bottom of the gauge allows you to adjust the gauge so the mirrors are vertical, to properly reflect the laser pointer from the rear axle. Lock it in place with the bottom thumb screw when desired angle is achieved.
4. Turn on the Laser Toe Gauge in the rear axle. Rotate the gauge so the laser reflects off of the Camber Gauge mirrors. Note: another slight adjustment of the camber gauge might be required to aim the laser beam properly back to the Laser Toe Gauge. The laser pointer should reflect back to the Laser Toe Gauge. Loosen tie rod nuts and adjust tie rods to desired factory recommended settings. Retighten tie rod nuts.
5. Repeat this process on the opposite side of the kart.
6. Turn off the laser to conserve battery life.

Setting Camber

POWER – Turns the devise ON/OFF. If there is no movement for 30 minutes, the gauge will automatically turn off to conserve battery life.
ZERO - This devise is already factory preset to zero and it is not necessary to re-zero when turning on. When pressed, this button allows the current reading to be set to zero and allows you to make subsequent adjustments relative to this reading. This feature is not generally used for kart setups. If you press this button by mistake, you can press it a second time to return to the factory preset zero.
HOLD – When pressed, the current value displayed will be freezed, and the unit icon will flash to indicate the reading is on hold. Press the button a second time to return to the factory preset zero.
SET – This button takes you to the devise parameters and is generally not needed for kart setups.

1. Make sure the digital protractor is properly charged, using the included charging cable. Turn on the Digital Camber Gauge.
2. Repeat steps 2-3 above to install the Digital Camber Gauge properly on the kart.
3. Loosen the thumb screw on the bottom of the gauge, and rotate the gauge left or right until the “bubble” on the screen is in the proper position for positive or negative camber settings (see diagram on gauge).
4. Loosen camber lock nut, and adjust camber to desired factory recommended settings. Retighten camber lock nut.
5. Repeat this process on the opposite side of the kart.
6. Turn off gauge to conserve battery life.
7. Recheck toe, following steps 1 through 6 above.