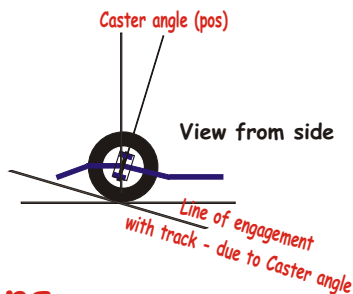
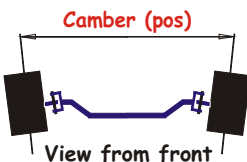
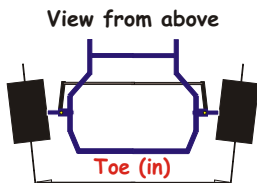
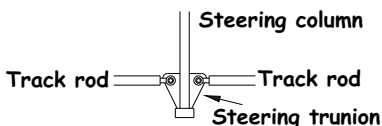


Alignment Principles



Basic setting instructions

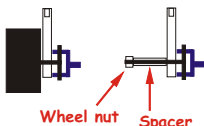
Step 1 --- Check steering trunion is central



R3 Racing also supplies a steering wheel lock to stabilize your steering whilst the following adjustments are made. This also enables the resetting to be carried out without delay as the position required can be recorded and repeated at the trackside without further measuring.

Step 2 --- Fit Eagle eye

Fit Eagle eye with or without wheel in position



This way you can see the difference between Kart set-up on your trolley and the different settings achieved with the Kart on the ground and the driver in position.

Step 3 --- Level the bubble and switch on both units

Adjustment for Camber and Caster can vary from Kart to Kart. Some have no adjustment at all.

Some have a combination adjustment. This is the most common type. These normally have little effect on Caster but the Camber can usually be swung from positive through to negative.

It is good practice to spend some time getting to know just how this adjustment works in order to get the best set-up and subsequent results from your Kart.

Step 4 --- Adjust track rods for zero toe on each side

Step 5 --- Adjust for zero Camber on both sides

Step 6 --- Measure Caster and adjust if necessary

To measure Caster angle gently swing the steering. The laser dot will subscribe a line as shown on the adjacent target. Note the angle (25 and 5 in this example).

Add these together (30) and divide by 2. This gives 15 degrees. This is a typical Caster angle. Note that if you have zero toe and zero Camber then the laser would swing through the centre of the target and read 15 degrees each side.

Step 7 --- Now adjust for Camber required.

Step 8 --- Now adjust for Toe required.

Step 9 --- Re-check all settings

Tighten all fittings and remove steering lock if used.

Step 10 --- Remove Eagle eye and refit wheels.

