

Eagle eye magtronic

Laser front axle alignment system

Thankyou for purchasing the Eagle eye magtronic laser front axle alignment system. We hope this equipment will give you many years of service and live up to the name of R3 Racing for good product design at an affordable price.

The Eagle eye magtronic contains many novel features and design advantages. Please take time to read and understand the instructions in order to get the best from this equipment.

What it can do.

Eagle eye magtronic is for checking and setting the Toe, Camber and Caster angle (with the additional caster angle adapter) on most types of Kart. It has the ability to fit front stub axles with diameters from 12 to 25mm (1/2" to 1") diameter directly and larger stub axles to 50mm (1 5/8") for Gearbox or Shifter Karts with the extension set. It can also be fitted on both these with or without the wheels on the stub axles. Thus dynamic settings can be achieved.

Because of its unique design the laser beam is kept well clear of the king pin arrangement and any disc brake assembly. It can also be used in conjunction with our Rear axle alignment system to provide a complete setup arrangement.

Specification.

Light source	: Class II solid state laser	Axle sizes	: 17mm to 50mm (3/4" to 2")
Control	: Multi mode Microprocessor controlled beam either modulated or full beam	Material	: Aircraft grade Aluminium alloy for body
Power	: Lithium primary cell type CR2 (commonly available)	Finish	: Hard anodised for long life
Battery life	: Sleep mode up to 5 years : Wake mode up to 70 hours continuous use	Weight	: Each unit weighs approximately 155gm
Operation	: Short press for LOW power - long press (1 sec) for FULL power : One press for OFF : Auto OFF after about 8.5 minutes	Magnets	: Rare earth Neodymium

R3 Racing reserves the right to change specifications without notice

Maintenance.
Keep clean by removing excess oil and other materials. Avoid water and keep from rain. This product is not waterproof. Do not drop. (R3 Racing provides a recalibration service should this occur.) To replace the battery remove the 2 screws. This exposes the battery which can be gently prised from its holder and replaced. Note carefully the polarity!!

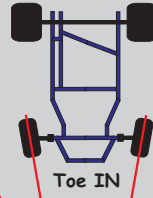
Warranty.

This product is warranted against faulty materials and workmanship for 12 months. Applies to UK and NI only.

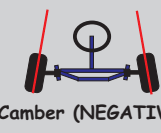
www.r3racing.co.uk
Email: sales@r3racing.co.uk
R3 Racing
2010

View from above

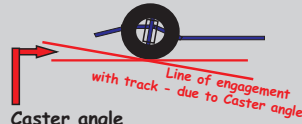
BASICS



View from front



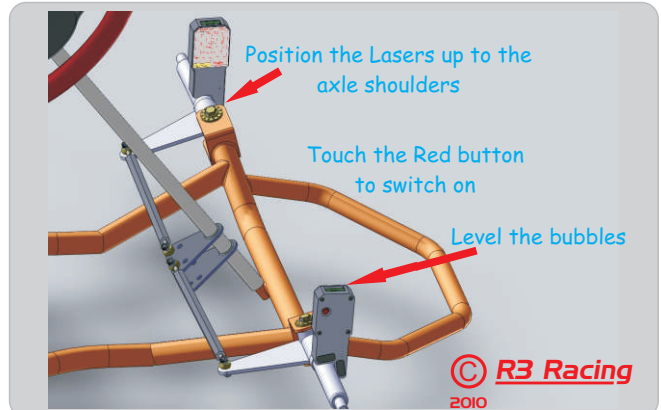
View from side



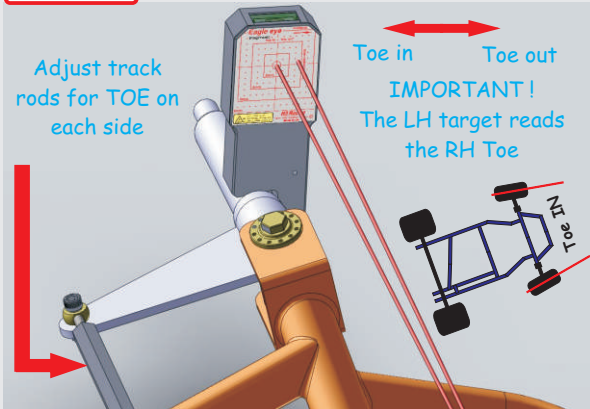
- 1 Remove the front wheels
- 2 Check steering trunion is central
- 3 Restrain the steering column
- 4 Loosen up King pins and track rods

NOTE
Measurements can also be made with wheels on, Kart on the ground and driver in position.

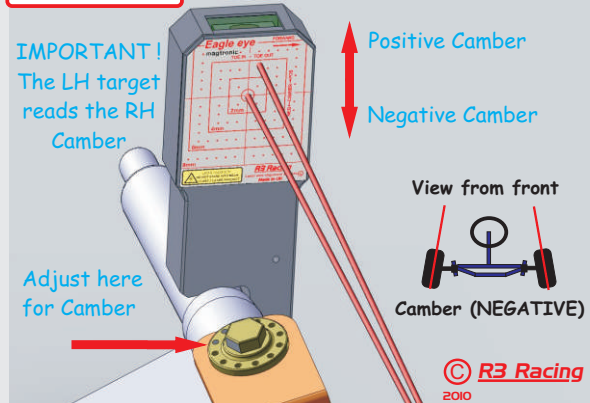
FIT FRONT LASERS



1 - TOE



2 - CAMBER



CASTER

The Eagle eye magtronic's unique caster gauge enables you to set and check your caster angle quickly and easily

King pin from side to side adjusts the Camber
King pin from front to back adjusts the Caster angle

You may have adjusters both on top and underneath your king pins

- 1 Use the Level supplied to level the Kart front to back

- 2 Slide the Eagle eye Caster plates into position and set Toe and Camber as normal

- 3 Adjust so that the hole in the gauge is over the laser dot from the other side

- 4 Now slightly move the steering wheel or the track rod to read the Caster angle from the gauge

Note that the angle has been measured with the steering wheel in the central position. This is where it is important!

R3 Racing
2010