# Eagle eye magtronic

## Laser rear axle alignment system

Thankyou for purchasing the ***Eagle eye magtronic*** laser rear 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*** enables the Twist, Bend and Crab to be measured on most types of Kart. It has the ability to fit axles ranging from 17 to 50mm (3/4 to 2 inches) diameter.

It is intended to be used in conjunction with our Front axle alignment system to provide a complete set-up arrangement.

**Specification.**

Light source : Class II solid state laser
Control : Multi mode Microprocessor controlled beam either modulated or full beam
Power : Lithium primary cell type CR2 (commonly available)
Battery life : Sleep mode up to 5 years
: Wake mode up to 70 hours continuous use

Axle sizes : 17mm to 50mm (3/4 to 2 inches)
Material : Aircraft grade Aluminium alloy for body
Finish : Hard anodised for long life
Weight : Each unit weighs approximately 155gm
Magnet :Rare earth Neodymium

Operation : Short press for LOW power - long press (1 sec) for FULL power
: One press for OFF : Auto OFF after about 8.5 minutes

R3 Racing reserves the right to change specifications without notice

**Maintainance.**

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 prized from its holder and replaced. Note carefully the polarity!!

**Warranty.**

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

R3 Racing

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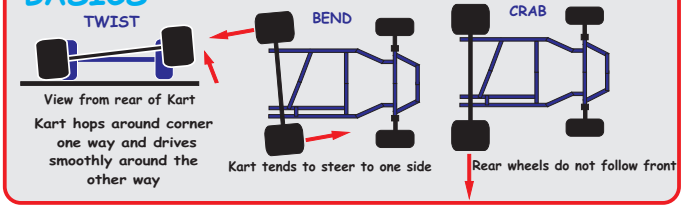
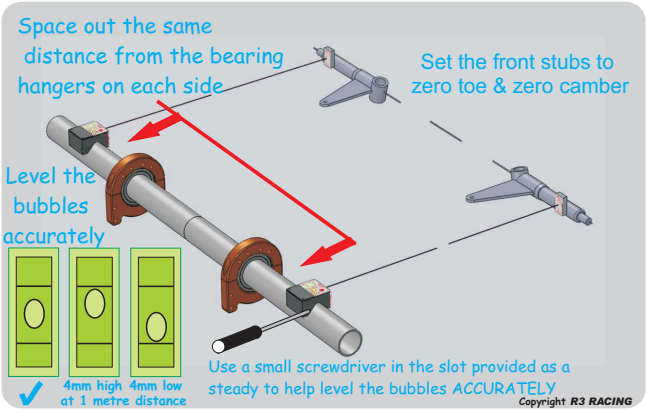
## BASICS




## 4 STEP SET UP

1. Position the Kart on a fixed table. This table does not have to be level.
2. Lock or fix the steering column centrally.
3. Lock the brakes on.
4. Set up the front stub axles (splindles) to a zero Toe and zero Camber position

## FIT REAR LASERS

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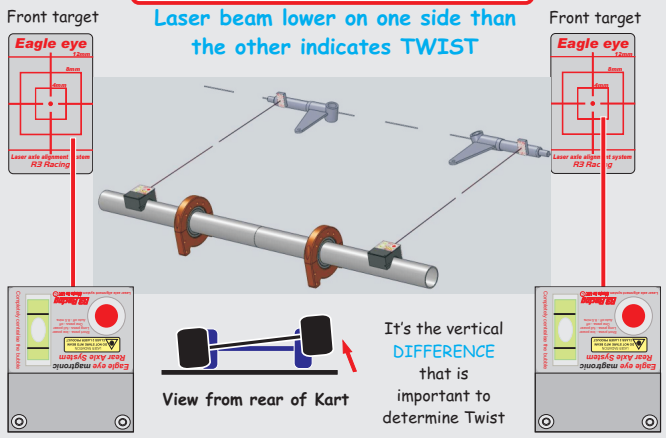
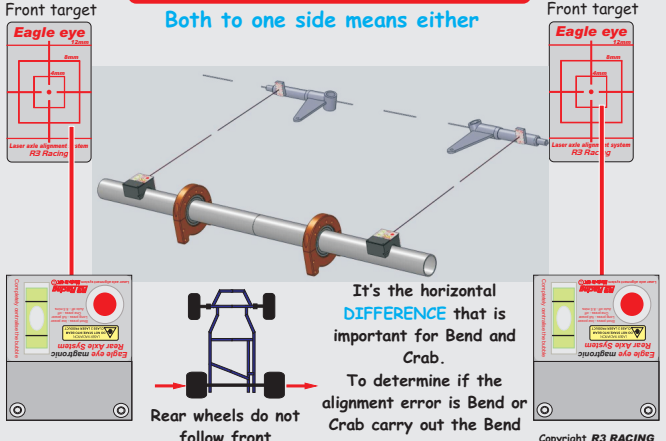
## 1 - TWIST TEST

Laser beam lower on one side than the other indicates TWIST




## 2 - BEND or CRAB TEST

Both to one side means either

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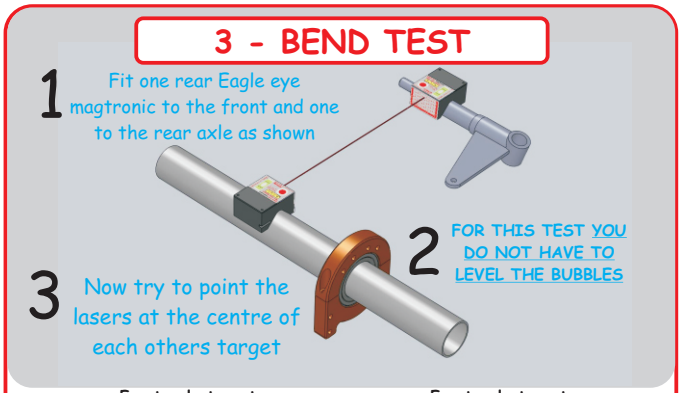
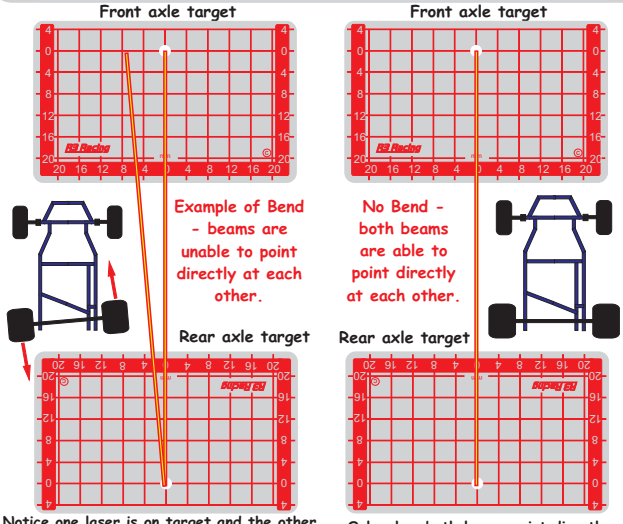
## 3 - BEND TEST




Notice one laser is on target and the other is horizontally displaced.
If the two axles are not parallel (as viewed from above the chassis) then the 2 beams can never point at each other.

Only when both lasers point directly at each other are the axles parallel and no Bend exists. Repeat for the other side as a double check on your setup.

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