

Fitting the Wheel speed sensor

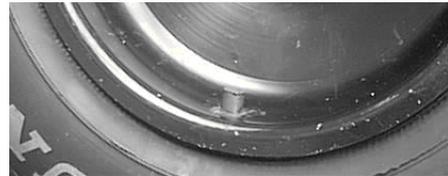
The Dash-2 Kart Logger is supplied with one STACK ST669 proximity sensor. This sensor is used to measure wheel speed in order to display the kart's speed in MPH or km/h. The sensor provides an electrical pulse to the system each time a magnet passes the sensor.

Generally it is best to measure the speed from an outside front wheel, as wheelspin and brake lockup affects the distance calculation. This then degrades the accuracy of the Performance Meter and multi-run overlays on the PC.



Procedure

1. It is absolutely vital that the magnets are not mounted where they may be subjected to high temperature, as this takes away their magnetic properties and renders the wheel speed channel inoperative. The areas to avoid in this respect are brake discs and hot exhaust gases.
1. Glue bond a single magnet to the flat inner rim of a wheel, (normally one of the front wheels), with the unmarked end of the magnet against the wheel rim and the red end of the magnet clearly visible once the magnet is glued in place.



The best way to use the adhesive is to clean the wheel with some brake cleaner or solvent thinners. Then put a thin film of activator on the wheel. Put a bead of the adhesive on the end of the magnet, and push it onto the activator. Leave for 5 minutes to cure.

2. Bolt the sensor onto the steering arm and tighten it in place with a 2 mm gap between it and the magnet.
3. The Wheel Speed sensor is fitted with a mini sure seal connector. The wire from the sensor should be routed along the floor of the kart, up the steering column or back of the Nassau panel, then plugged into the system harness connector labelled **WS**.