

## INSTRUCTION MANUAL

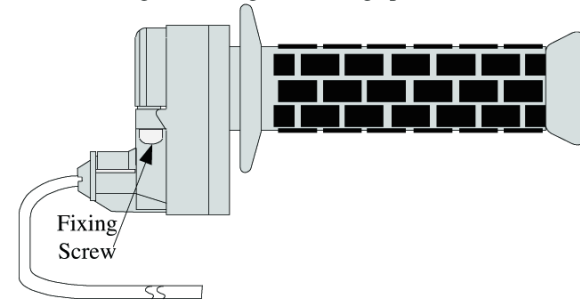
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### Magura Twist-grip Throttle

#### General

The Magura is a twist operated 5K potentiometer suitable for use with all of Electriccross' controllers. The grip has a spring return-to-zero. The throttle is fixed onto a 20-22 mm standard diameter tubular handlebar.

Figure 1: Magura Twist-grip Throttle



The grip is supplied with a 1.5m length of 3-core cable attached to the throttle. The Colors in the core cable are the following:

Blue	Top Speed
Brown	Wiper (variable)
Black	Zero Speed.

#### Mounting

The grip is designed to fit on a 20-22 mm diameter tubular handlebar. There is some clamping adjustment. It is best to avoid inserting the metal handle more than 20 mm into the clamp (if diameter is > 20mm).

Be aware that the larger diameter tubes may cause interference problems if inserted more than 20mm into the grip especially if there are burrs or paint runs on the end of the tube. Also, if dirt or grit gets into the grip or the metal handle bar rusts then binding may occur.

#### Electrical

The potentiometer used in the throttle grip is a 5K pot and works well with all Electriccross controllers. The controller's gain adjustment may have to be increased in order to obtain full speed from the throttle. Refer to the controller's manual for instructions on adjusting the gain.