



Instruction Manual

Magura Twist-grip Throttle GTH-103/203/303

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1. Introduction

The Magura throttle is a twist operated 5K potentiometer suitable for use with all 4QD's controllers. The throttle has a spring return-to-zero.

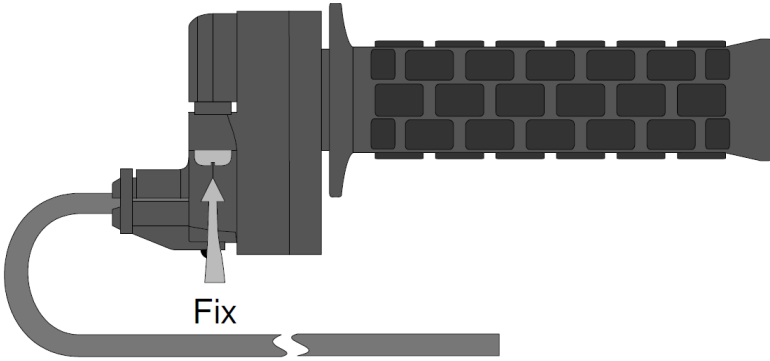


Figure 1: Magura throttle

A matching plain grip is available for the left hand side of handlebars.

2. Connections

The throttle is supplied with a 1.5m length of 3 core cable attached.

Note that the supplied cable is too thick to reliably connect with the IDC connectors used on 4QD controllers and you should therefore use some method of joining this integral cable to the rest of the wiring.

One recommended method is a CON1 connector as supplied by 4QD. Wiring for this is shown below.

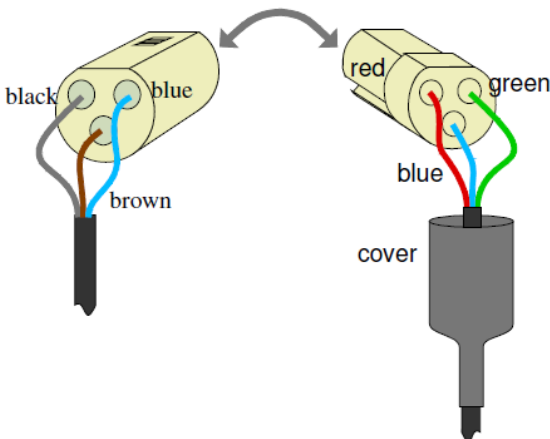


Figure 2: Wiring Magura to controller

Wiring diagrams in all 4QD manuals show the pot wiring with red, blue and green. These colours connect to the Magura as below:

Magura	4QD Controller	Function
Blue	Red	Pot max
Brown	Blue	Wiper
Black	Green	Pot zero

3. Mounting

The throttle is designed to fit on a tubular handlebar of 20-22 mm diameter. There is some clamping adjustment.

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 in to the grip or the metal handle bar rusts then binding could occur.

4. Electrical

The potentiometer used in the throttle is a 5K pot and should work with any 4QD controller. With controllers that have a gain adjustment you may use this to get full speed as instructed in the controller's manual.

5. Service

The Magura throttles are very reliable, but have no serviceable parts inside so cannot be repaired.

Warranty

All our products have a warranty against defective manufacturing for 12 months from the date of shipment. The warranty doesn't cover damage caused by incorrect installation.