

Electronic Cruise Control for Triumph Rocket III



The following provides a brief description of the power consumption and component locations of the MotorCycle electronic cruise control.

Installed weight of the cruise control is approximately 2.5kg.

Current draw while the cruise is switched on, but not engaged, is approximately 0.250 amp (3 watts). Current draw while the cruise is engaged is nominally 0.50~0.80 amp (6~10 Watts).

By comparison, a head light bulb typically draws about 4 amps (55 Watts), and a tail light bulb (running light) draws about 0.4 amp (5 Watts).

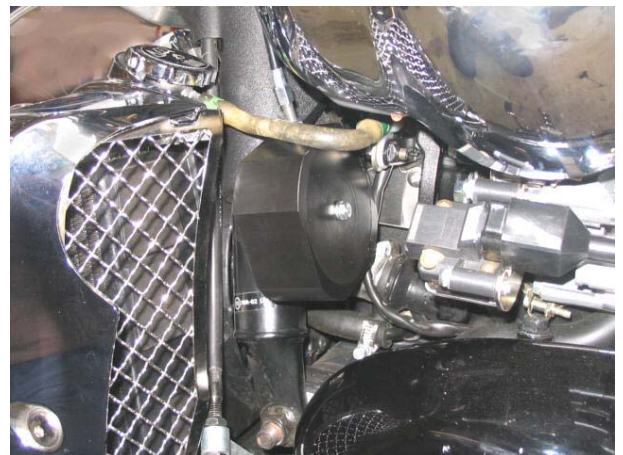
Refer to the line drawing on the back of this sheet to identify the component numbers in the text.

The **Computer (1)** mounts under the left side cover on a custom bracket.



The **Actuator (2)** is bolted under the right side of the motor, mounted on three of the sump bolts. A **vacuum hose assembly (3)** is provided to connect the actuator to the engine. Aluminium covers finished in satin black powder coat are provided to enhance the appearance of the actuator and to provide weather protection. The stainless steel mounting bracket shown is now finished in satin black powder coat

The **CIU (4)** is located on the left side of the bike, between the radiator and the throttle bodies, below the coolant header tank. The **CIU** has a new **cable (5)** running from it to the throttle bodies.

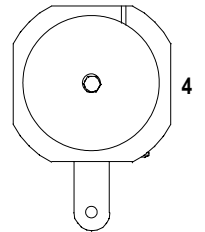
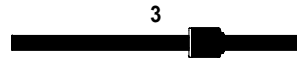
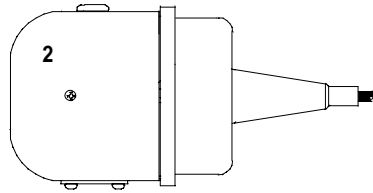


The **Speed Sensor (6)** mounts to the left front fork using one of the brake calliper mounting bolts. Magnets are placed in the heads of the bolts that mount the brake disc.

The **Control Switch (7)** is mounted to the left hand (clutch) master cylinder handlebar clamp and may be mounted below the left hand switch block. The bracket mounts between the lower faces of the clamp. The clamp must have about 1~1.5mm (0.040"~0.060") filed from the lower face of the clamp to allow for the thickness of the switch bracket. The switch bracket is now finished with satin black powder coat. Alternatively, the mounting bracket may be reversed to mount the switch above the switch block if desired.



The **Wiring Loom (9)** uses the same type of plugs that are already used on the motorcycle. Power for the cruise control and brake sensing is taken off the brake light switches by unplugging the front brake light switch. Matching connectors on the cruise control loom are plugged in to the switch and the bike's loom. Tach (engine speed) sensing is detected from the bike's primary ignition circuit. This is used to disengage the cruise if the clutch is operated. The bike's clutch switch is also connected to the cruise control to disengage the cruise. The cruise control is grounded on the battery negative terminal. Speed sensing is taken from the sensor fitted to the bike's front wheel.



Schematic Line Drawing not yet complete

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