

Electronic Cruise Control for Boom Trike Mustang ST1 Automatic

Peugeot 2.0l engine and Automatic Transmission



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 1.8kg.

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 0.5~1.50 amp (6~18 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).

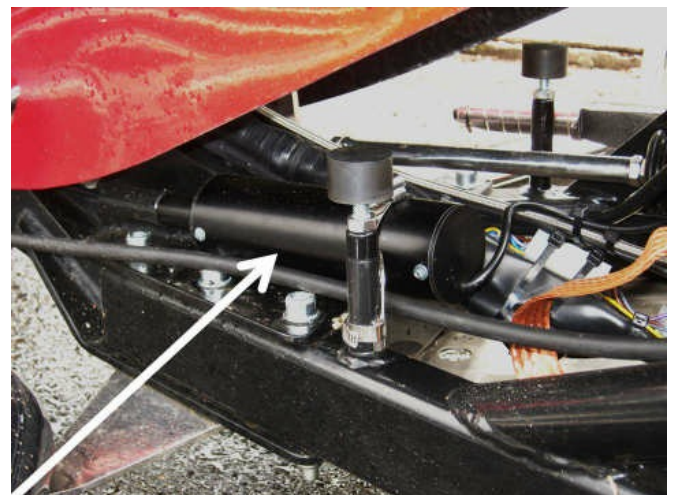
Refer to the line drawing on the back of this sheet to identify the component numbers in the text.

The **Computer (1)** and **Electric Throttle Servo (2)** are mounted under the main body shell. The black arrow shows the computer, the white arrow the throttle servo.



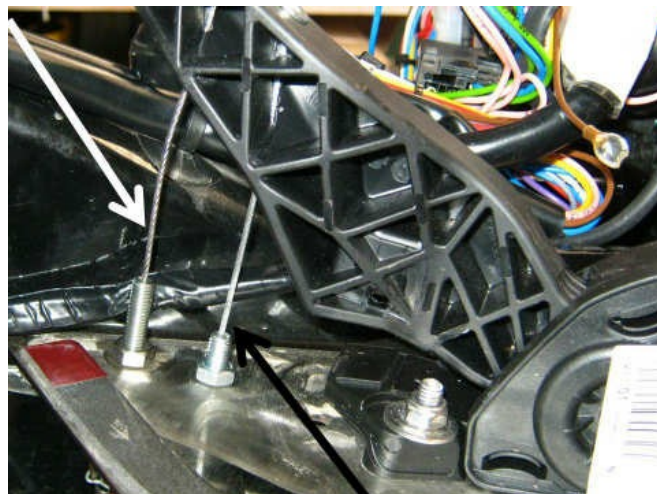
Self-adhesive 'hook & loop' (Velcro) fastener is provided in the cruise control kit to mount the **computer** on top of the fuel tank.

The **throttle servo** is mounted on the frame on the left side under the drivers seat. A **servo cable (3)** connects the servo the vehicle's throttle grip position sensor.



The servo cable goes directly to the vehicle twist grip position sensor. The cable on the left (white arrow) is the original cable from the twist grip to the throttle sensor, the cable on the right is the new cable from the throttle servo.

Throttle cable retainer components (4) are supplied in the kit to be fitted to the original throttle grip and throttle cable to prevent any possibility of a cable jam during cruise control operation.



The **Control Switch (5a)** is mounted to the left hand mirror handlebar clamp. This mounting arrangement uses the 'Hi' bracket.

Alternatively, the **Control Switch (5b)** may be mounted below the handlebar. This mounting arrangement uses the 'Lo' bracket.

Either mounting may be selected when the cruise control is ordered.

If you have fitted different mirrors to your Boom and these mounting brackets will not work, we have large range of switch mounting brackets. Contact us for more information.



The **Wiring Harness (6)** has the same type of plugs or terminals that are already used on the vehicle, with one exception. Power for the cruise control and brake sensing is taken off the brake light switch by disconnecting the wires to the brake light switch. Matching connectors on the cruise control harness are plugged in to the switch and the vehicle's harness. Road speed (speed sensing) is detected from the vehicle's speedometer signal. Tach (engine speed) sensing is detected from the vehicle's signal to the tachometer. This is used to disengage the cruise if a gear change occurs. This connection (tach) must be spliced to the vehicle's wiring harness. Splice terminals and heat shrink tube are supplied in the kit to make this connection. The cruise control also connects to a switch that is built into the auto transmission to disengage the cruise control if Neutral is accidentally selected. The cruise control is grounded on the negative battery terminal. The wiring harness is a 'custom' finished item, with all parts of the harness cut length and terminated appropriately.

