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 Setup 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).

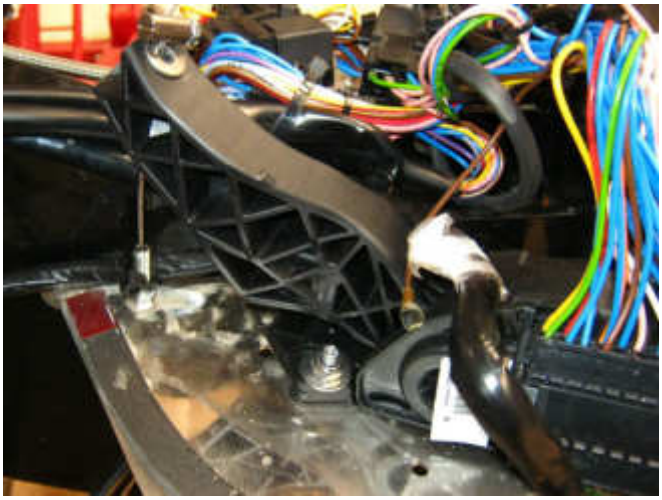
Refer to the line drawing on the back of this sheet to identify the component numbers in the text.

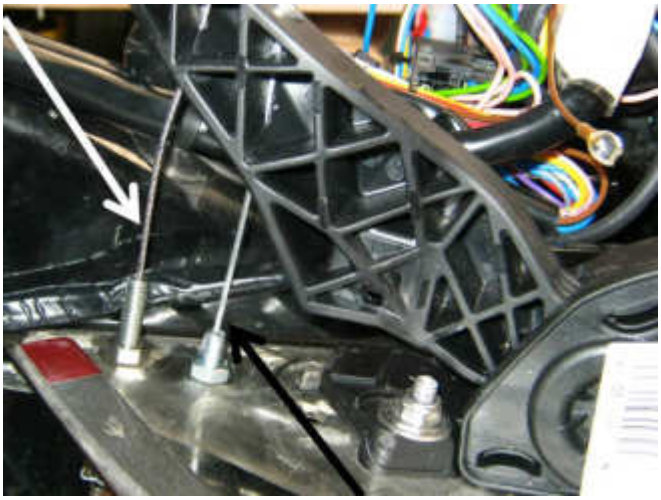
The **Computer (1) and Electric Throttle Servo (2)** are mounted under the main body shell. The black arrow shows the computer, the white arrow the throttle servo.

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.

On earlier models of the Boom Auto, the servo cable went 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. To our knowledge, this was subject to a recall and a new throttle sensor 'box' was fitted to replace this arrangement. **This cruise control kit will NOT fit on this type of throttle sensor setup.**

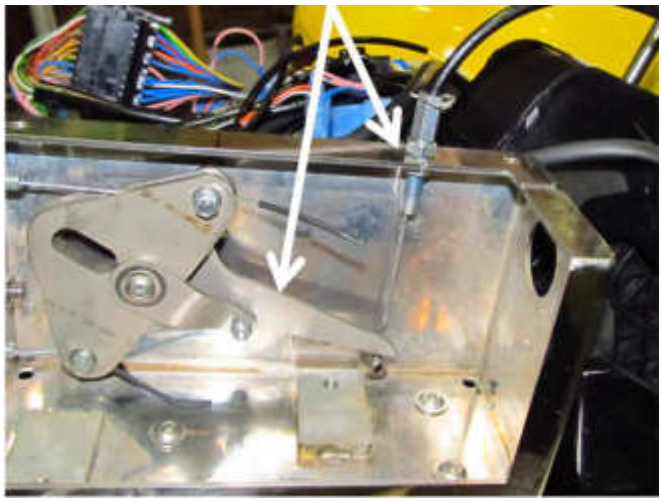




Later models (from about mid 2015) were fitted with this throttle sensor 'box'. **This cruise control kit is designed to fit this arrangement only, NOT the earler throttle sensor set up shown above.**

A **Lever Mechanism (4 & 5)** (left arrow in the photo below left) is fitted to the vehicle's throttle mechanism and the servo cable connects to this lever (right arrow in the photo below left).

The photo below right shows the box with the throttle position sensor fitted in the box.



MotorCycle Cruise Controls

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The **Control Switch (6a)** is mounted to the left hand mirror handlebar clamp on bikes with a clamp mounted mirror. This mounting arrangement uses the 'Above Handlebar – Mirror Clamp' bracket.

Alternatively, the **Control Switch (6b)** may be mounted below the handlebar on bikes with a clamp mounted mirror. This mounting arrangement uses the 'Below Handlebar – Mirror Clamp' bracket.

Later models have the mirror screwed directly into the handlebar. **The Control Switch (7)** in this mounting arrangement uses the 'Above Handlebar – Mirror Stalk' bracket.

Any of these mounting brackets 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.

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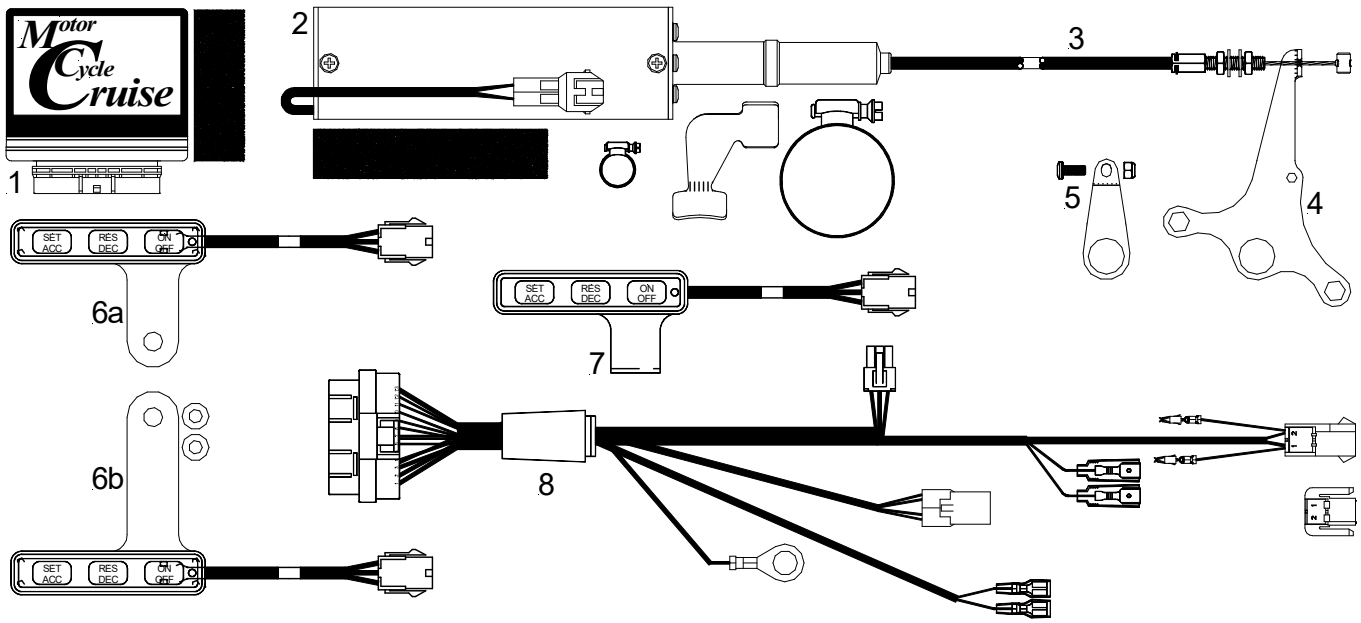
The **Wiring Harness (8)** has the same type of plugs or terminals that are already used on the vehicle, with one exception. Power for the cruise control and brake sensing is taken off the brake light switch by disconnecting the wires to the brake light switch. Matching connectors on the cruise control 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.



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