

Electronic Cruise Control for Suzuki DL650 V-Strom

All models from 2012



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 0.2 amp (2.5 watts). Current draw while the cruise is engaged is nominally 0.50~1 amp (6~12 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).

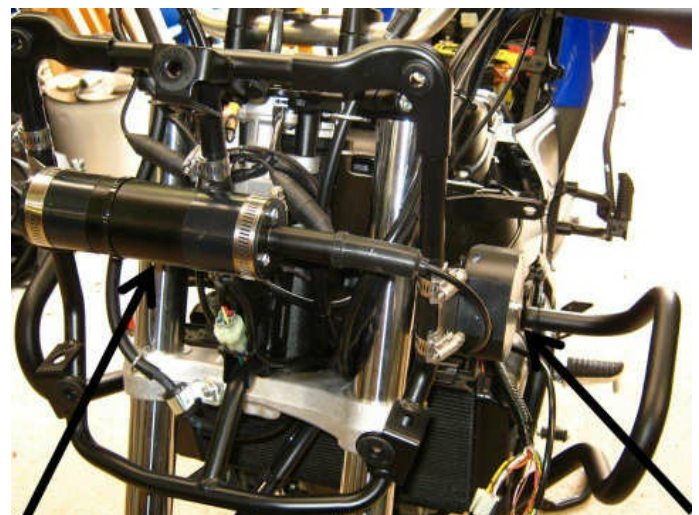
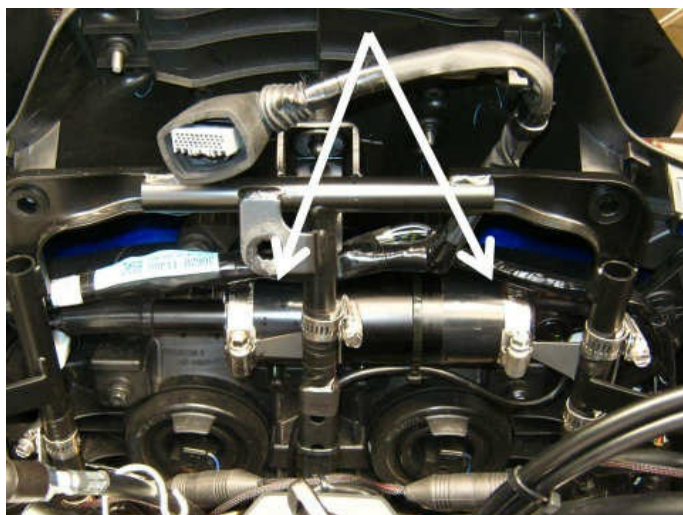
Refer to the line drawing at the end of this document to identify the components from the numbers in the text.

The **Computer (1)** mounts in the storage area under the seat, at the back behind the tool bag, in a **foam block (2)**. The foam block is a convenient mounting method, but does take up considerable space. Hook & Loop (Velcro) mounting tape is also supplied as an alternative if space is an issue.

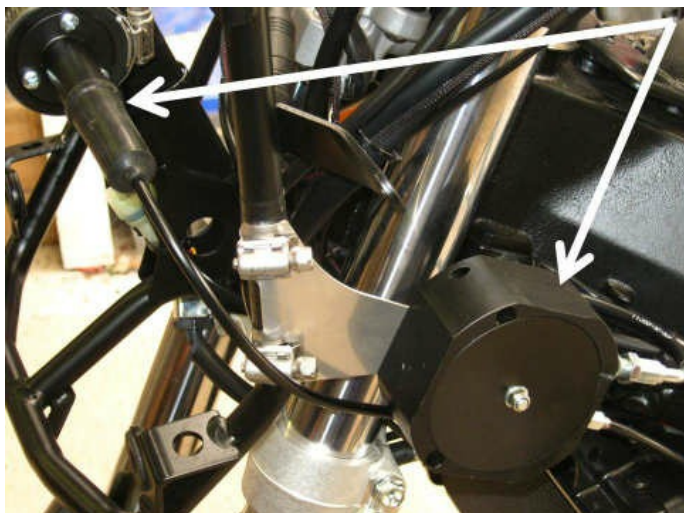


The **Electric Throttle Servo (3)** is mounted on the fairing frame behind the headlight, below the instrument cluster. The mounting brackets are clamped to the frame using hose clamps. The photo at left shows roughly where it is mounted.

The photo below left shows the servo from inside the fairing with the instrument cluster removed. The photo below right shows the servo with the fairing removed. The left arrow indicates the servo, the right arrow indicates the CIU (see the next page).



The **CIU or Cable Interface Unit (4)** is mounted on the fairing frame on the left side, beside the forks. The mounting bracket is clamped to the frame using hose clamps. The photo below left shows the servo and CIU with the fairing off the bike. The photo below right shows the CIU viewed from above inside the fairing. It has a new **cable (5)** running from it to the throttle bodies.



The **Control Switch (6)** is mounted on the left hand (clutch) lever mirror mount. The switch is located above the left switch block.



The **Wiring Loom (7)** has the same type of plugs or terminals 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 rear brake light switch. Matching connectors on the cruise control loom are plugged in to the switch and the bike's loom. Speed sensing is taken from the bike's speedometer sender. Tach (engine speed) sensing is detected from the bike's 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 control. The cruise control is grounded on the negative terminal of the battery.

Major parts are shown on the following page:

