

# Electronic Cruise Control for Suzuki DL650 V-Strom

All models including ABS brakes



**NOTE: - When ordering this kit you must specify what type of connector is used on the bike's clutch switch. See the end of this document for information.**

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 2.0kg.

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 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 **Actuator (3)** is mounted on the fairing frame on the right side, beside the forks. The mounting bracket is clamped to the frame using hose clamps. The photo below shows the actuator with the fairing off the bike. The photo at right shows the actuator viewed from above inside the fairing. A **vacuum hose (4) assembly** is provided to connect the actuator to the engine.



The **Cable Interface Unit (5)** 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 shows the actuator with the fairing off the bike. The photo at right shows the actuator viewed from above inside the fairing. It has a new **cable (6)** running from it to the throttle bodies.



The **Control Switch (7)** is mounted on the left hand (clutch) lever mirror mount. The switch is located just above the left switch block.



The **Wiring Loom (8)** 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 coils. 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 battery negative terminal

## ***MotorCycle Cruise Controls***

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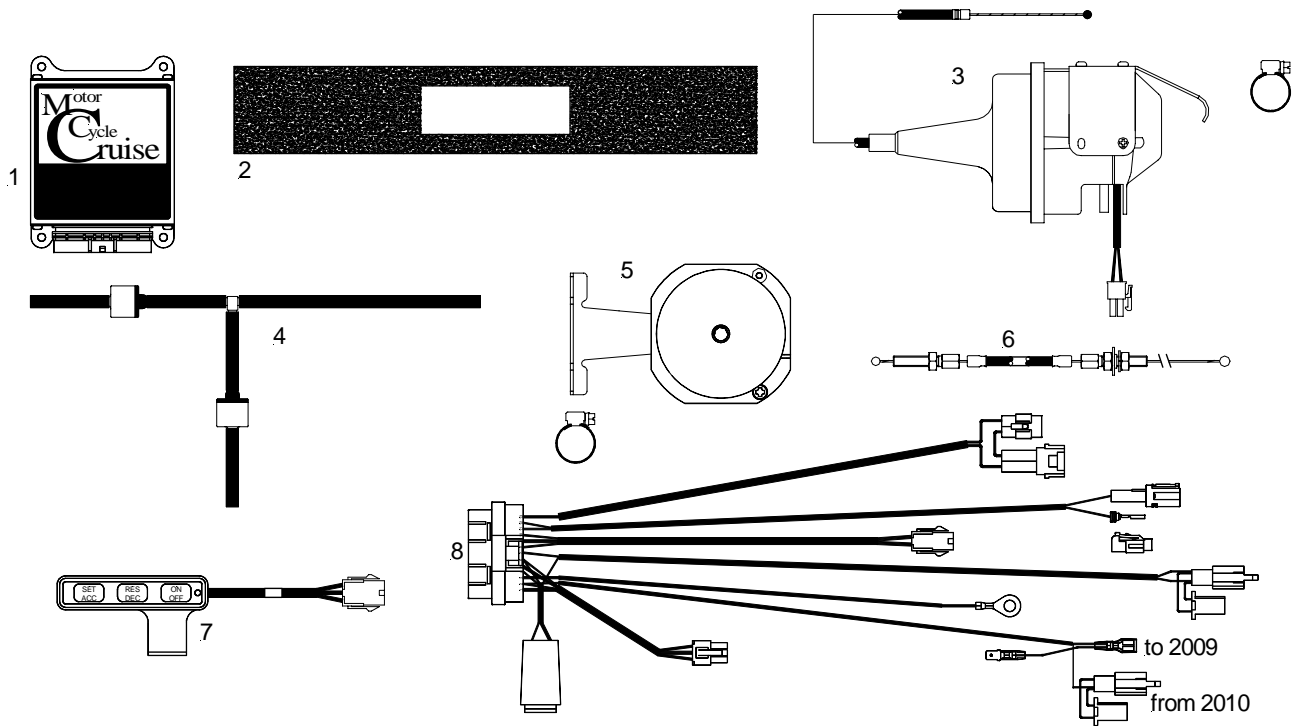
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## How to determine the clutch switch type.

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## How to determine the clutch switch type.

To our knowledge, all DL650's produced up to the 2009 model year have a clutch switch fitted with 4.8mm QC spade connectors. The switch is located directly under the clutch lever near the pivot point. The connector comes from directly under the clutch switch. Cruise control kit part number MCS 4690/1 will fit these bikes.



For the 2010 model year, a new type of clutch switch is fitted that has a two way latched plug. The switch is located directly under the clutch lever near the pivot point. This connector (arrowed in the photo below left) comes from the rear into the clutch switch. Cruise control MCS 4690/2 will fit these bikes.



Note that 2010 model year bikes may have a production date as early as mid 2009.

Please determine what type of connectors are fitted to your bike, and ensure the correct kit is ordered.

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