

# *Electronic Cruise Control for* **Suzuki DL1000XT V-Strom**

All models from 2017



**NOTE: - Refer to the end of this document to identify what electrical connectors are fitted to your bike to ensure you select the correct cruise control kit for your bike.**

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 2.5kg.

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 rear storage compartment on top of the bike's charcoal emissions canister. Hook & Loop (Velcro) mounting tape is used to mount the computer.



The **Electric Throttle Servo (2)** is mounted on the left side of the engine.



The **CIU or Cable Interface Unit (3)** is mounted on the left side of the bike, just inside the left front corner of the fuel tank. The photo below left shows the CIU with the fairing off the bike. The photo below right shows the location of the CIU. It has a new **cable (4)** running from it to the throttle bodies.



The **Standard Tall Control Switch (5a)** mounting (photo below left) has the switch mounted on the left hand (clutch) lever mirror mount. The switch is located above the left switch block and has about 20mm (3/4") clearance between the cruise switch and bike's buttons.

The **Optional Short Control Switch (5b)** mounting (photo below right) uses the same mounting, but has the switch lower with less clearance 10mm or 3/8") to the bike's buttons. The switch can be angled more to the left to allow better access to the bike's buttons.



The **Optional Below Handlebar Control Switch (5c)** mounting has the switch mounted on the bike's clutch lever clamp. This photo is taken on a 2018 DL1000XT. When the handlebars are turned all the way to the left, the cruise control switch is very close to the left side fairing panel (photo below right). If the bars are rotated down, or lower bars are fitted, the switch would contact the panel. Some tank bag mounts may also cause issues with the switch contacting the tank bag on full left lock. **Compare your bike to this photo to make sure the switch will fit before ordering this switch option.**



## ***MotorCycle Cruise Controls***

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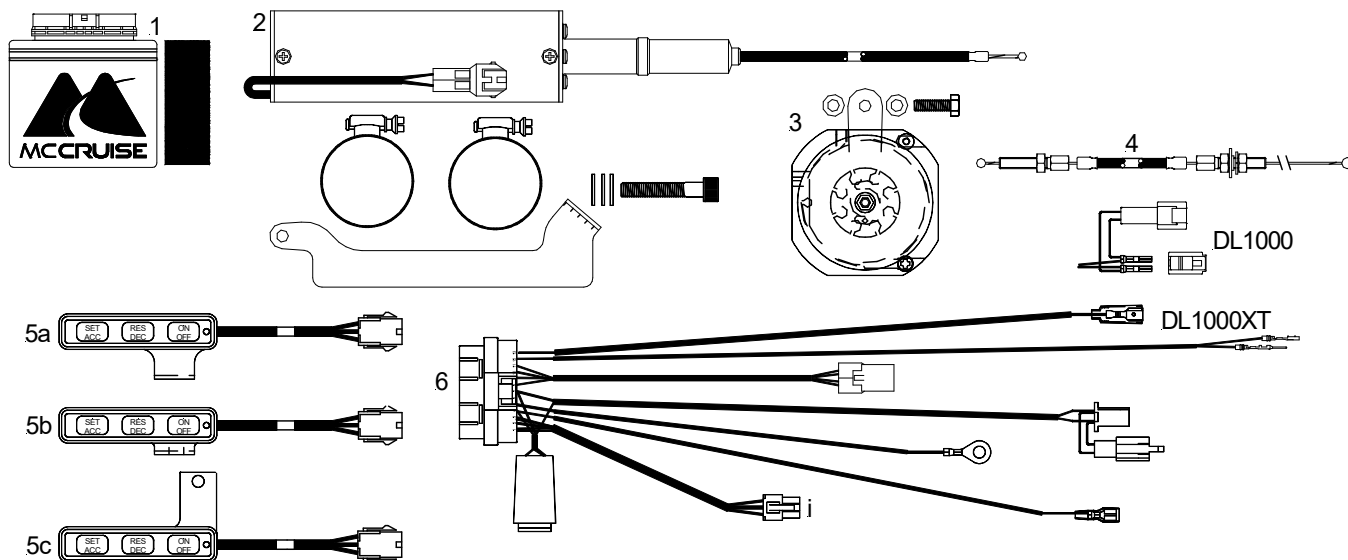
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The **Wiring Harness (6)** has the same type of plugs or terminals that are already used on the motorcycle. Power for the cruise control and brake sensing is taken off the brake light switches by unplugging the rear brake light switch. Matching connectors 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.



**Electrical connectors used on the DL1000.**

Around 2017, there was a change in the electrical connectors used on the DL1000. These connectors are located in the right side of the bike, above the radiator cap, inside a rubber sleeve.

This is accessible without removing the fuel tank, but it may be beneficial to remove the fairing panels and the fuel tank decorative cover.

At this time we don't know if the change is for the 2017 model year or only on the DL1000XT.



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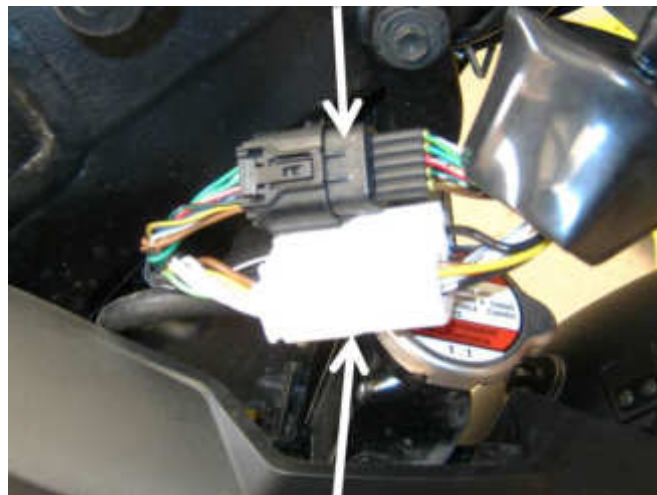
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Earlier models have three separate black unsealed multi-way connectors inside the rubber sleeve (photo below left). Later models or the DL1000XT have two connectors, one black sealed connector and one white unsealed connector (photo below right).

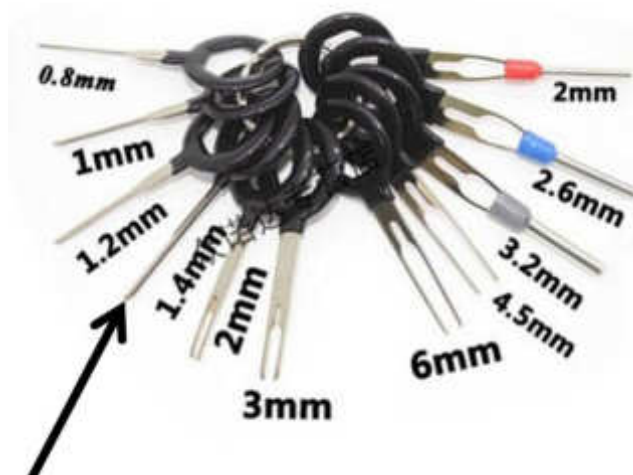
We must know which connectors your bike has in order to supply the correct wiring harness for your bike.



**NOTE:** - The installation of the cruise control on bikes using the sealed connector also requires that small and delicate electrical terminals are backed out of connector housings. Suitable tools to do this are available to be ordered with the cruise control if the installer does not have such tools already. Backing out these terminals without suitable tools is almost impossible.

The 11 piece set we supply in the kit as an optional purchase seems to be generally available on Ali-Express and eBay for a few of dollars, by searching for the part number ZZLJ7596 or by searching for 'terminal extractor set'.

The set in the photo is a typical 11 piece extractor set. The tool that we found fitted the best is the one arrowed with 1.4mm wide blade.



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