

Electronic Cruise Control for Yamaha MT-07



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 2.2kg.

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 taillight 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 on the right side of the bike, under the plastic cowling the covers the fuel tank, and is fitted on the side of the fuel tank. Hook & Loop (Velcro) mounting tape is used to mount the computer. The photo below left shows the location of the computer. The photo below right shows the computer attached to the fuel tank, tucked in behind the bike's ECU.

A close-up photograph of the right side of a blue Yamaha MT-07 motorcycle. A white square box is drawn on the blue plastic cowling above the fuel tank to indicate the location of the cruise control computer.

A photograph showing the underside of the blue plastic cowling. A black electronic control unit (ECU) is visible, and the cruise control computer is mounted behind it, secured with a piece of yellow tape. A white arrow points to the computer.

The **Electric Throttle Servo** and the **CIU or Cable Interface Unit** in the photos below are mounted on the left side of the bike. The servo is mounted on a special bracket attached to the bike's crankcase, using two of the crankcase cover screws. The CIU is beside the throttle bodies mounted on one of the bike's frame bolts.

The CIU has a new **cable (4)** running from the CIU to the throttle bodies.

A photograph of the left side of the motorcycle engine area. A white arrow points to a small, circular, black component labeled 'CIU' (Cable Interface Unit) mounted on a bracket. Another white arrow points to a larger, cylindrical component labeled 'SERVO' (Electric Throttle Servo) mounted on the engine.

The New Slim **Control Switch (5a)** mounts on the handlebar on the left side next to the bikes' switch block. This switch has back lit buttons for night use, and an indicator light for power (ON-OFF) and engage indication.



The optional **Tall Control Switch (5b)** mounts above the handlebar on the left side on the mirror mount. This switch has back lit buttons for night use, and an indicator light for power (ON-OFF) and engage indication.



The optional **Short Control Switch (5c)** is the same as the switch above but has a shorter mounting bracket that positions the switch closer to the bike's switch block.



Any of these switches may be selected as a no cost option when purchasing the cruise control.

MotorCycle Cruise Controls

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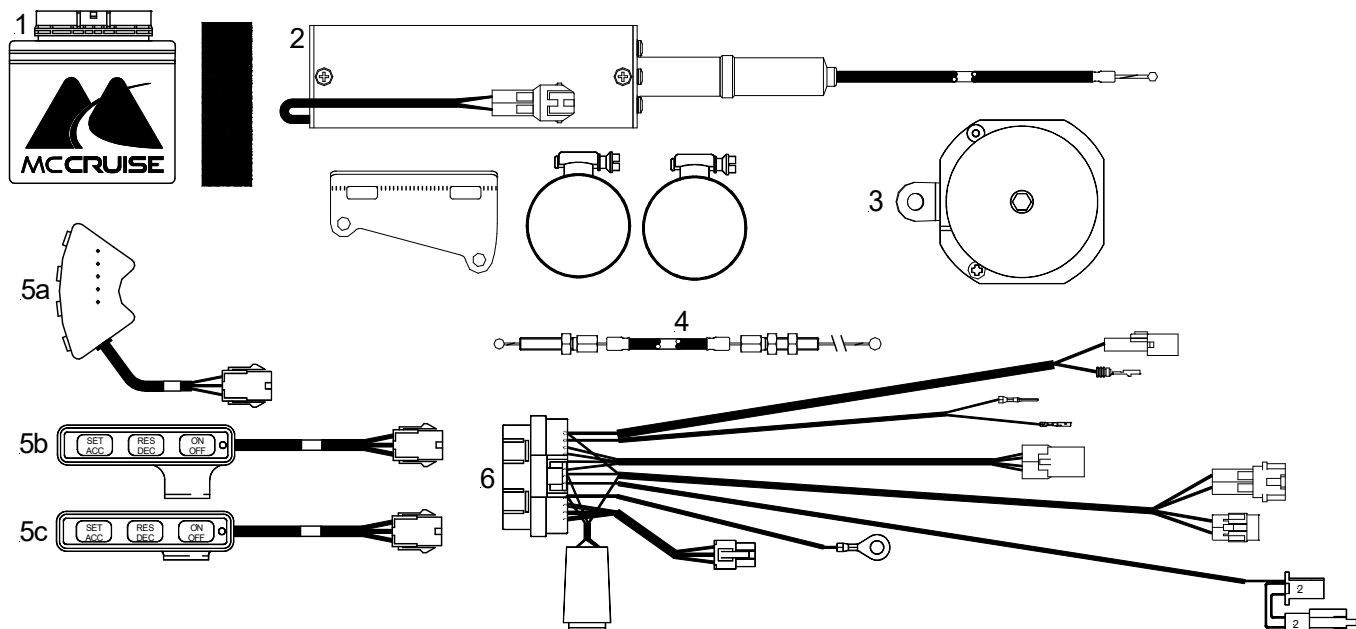
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The **Wiring Harness (6)** has the same type of plugs or terminals that are already used on the motorcycle. Power for the cruise control and brake sensing is taken off the brake light switches by unplugging the rear brake light switch. Matching connectors on the cruise control loom are plugged in to the switch and the bike's loom. Speed sensing is taken from the bike's speed signal to the ECU. 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. All these connections are "Plug & Play", no cutting of wires or splicing is required, but terminals on the motorcycle do have to be backed out of housings (connector plugs) for two connections. See below for details of the type of terminal extractor tools you will need to perform this operation on these connections.



NOTE: - The installation of the cruise control requires that small and delicate electrical terminals be backed out of a connector housing. 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 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 0.8mm wide blade.



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