

Electronic Cruise Control for **Kawasaki KLE650 Versys 2009-2014**



The following provides a brief description of the power consumption and component locations of the MotorCycle Setup electronic cruise control.

This cruise control is an update of an older cruise kit based on the installation of the next model Versys 650. Some of the parts used on the old kit are now obsolete, this document shows the old photos with the old components and the new photos of the current components fitted to the later model.

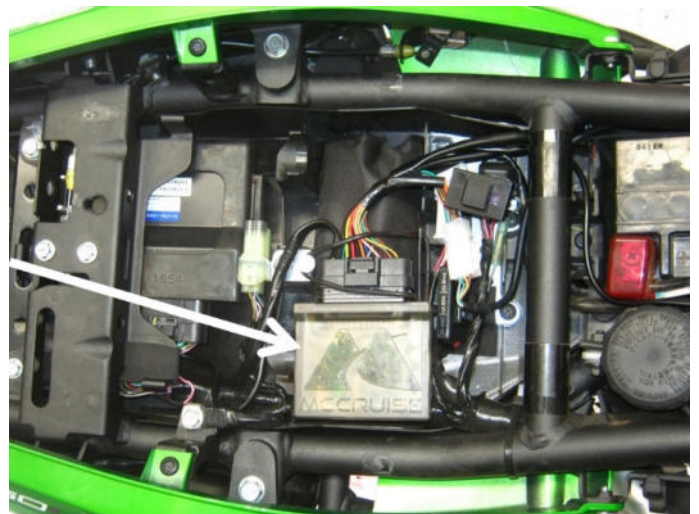
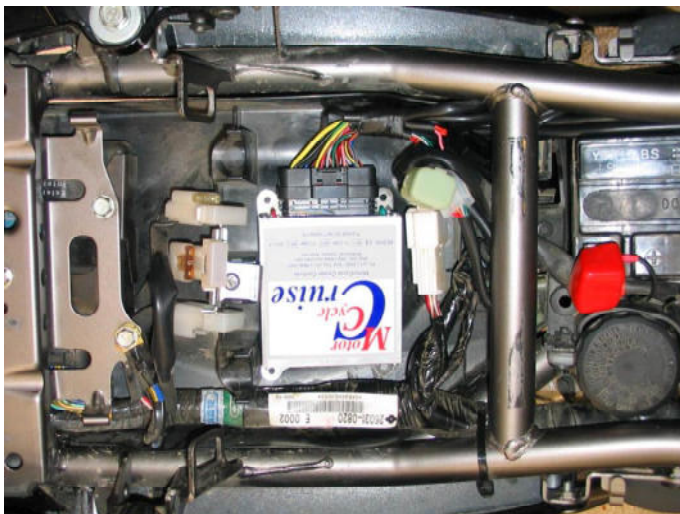
Installed weight of the cruise control is approximately 2.2kg.

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)** is under seat, and in the old model was UNDER the bike's tool kit (photo below left). On the new version the new cruise computer is in the same location, but mounted on top of the bike's tool kit, held in place using the rubber strap that hold the tool kit (photo below right). The new computer is smaller and lighter than the old one. This method should also work on the older model Versys 650.



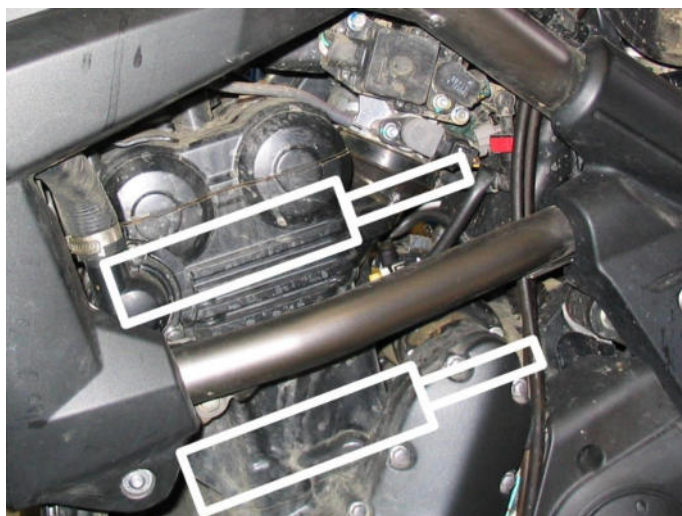
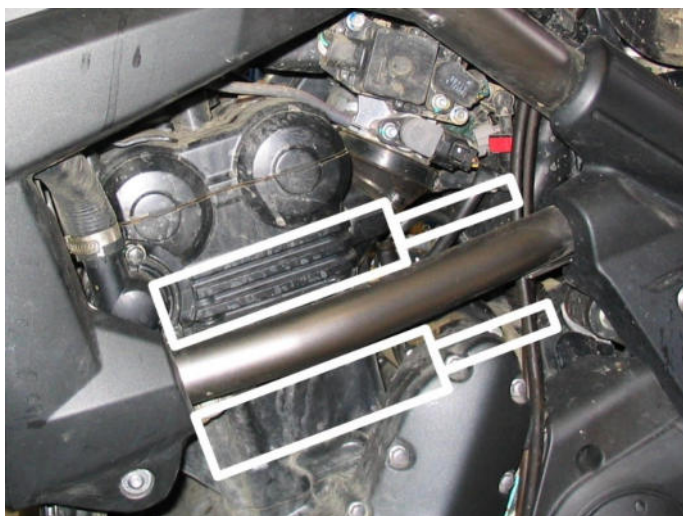
The **Actuator or throttle servo** from the old kit is now obsolete, seen here mounted on the left side of the engine bolted to the bike's frame.

See over page for more information.



The vacuum servo has been replaced by the new **Electric Throttle Servo (2)**. On the new Versys it is mounted on the bike's frame tubes on the left side of the bike, next to the cylinders. It is mounted using hose clamps and with rubber blocks between the servo and the frame tubes on the new model Versys.

Hardware is provided in the kit to allow the new servo to be mounted on the old bike in any of 4 different positions as illustrated by these photos below. Suitable hose clamps and brackets are provided to do this.



The CIU (3) is located on the right side of the engine. A new cable (4) connects it to the throttle bodies. The installation of this part is basically unchanged from the old version.



MotorCycle Cruise Controls

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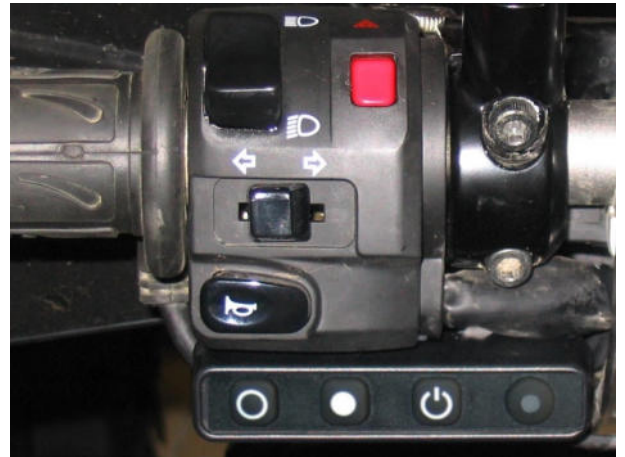
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There are three options for the control switch.

The standard **Control Switch (5a)** 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 same **Control Switch (5b)** may also be mounted below the handlebar to the left-hand (clutch) master cylinder handlebar clamp. The bracket mounts between the bottom faces of the clamp and the master cylinder. The clamp must have about 1.5~2mm (0.060''~0.080'') filed from the bottom face to allow for the thickness of the switch bracket.



The New Slim **Control Switch (5c)** mounts on the handlebar on the left side beside the bikes' switch block, between the switch block and the clutch lever mount. This switch also has back lit buttons for night use, and an indicator light for power (ON-OFF) and engage indication.



The new switch is a no cost option, any of these options may be selected when purchasing the cruise control.

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 harness. Speed sensing is sourced from the bike's speedometer speed sender. Tach (engine speed) sensing is detected from the bike's primary 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 battery negative terminal.

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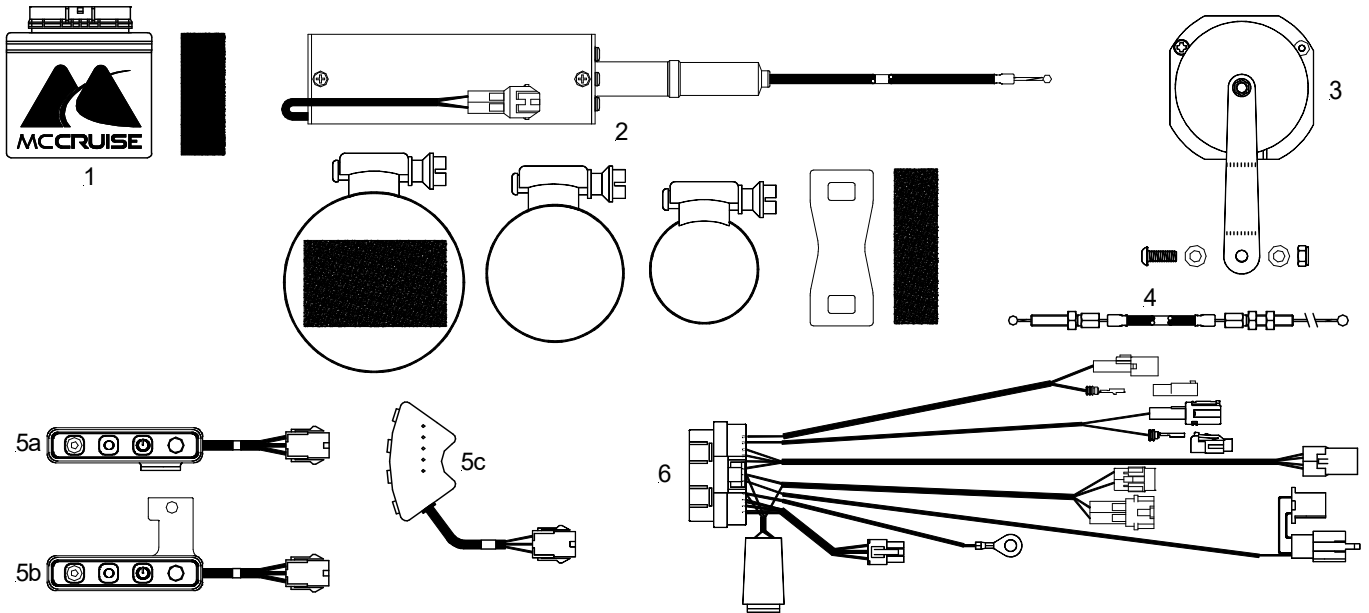
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NOTE: - The installation of the cruise control requires some experimentation when mounting the new throttle servo on the bike. A variety of hose clamps and mounting brackets are provided in the kit to assist in mounting the new servo in the same or similar location that it is mounted on the new model Versys 650.

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