

Electronic Cruise Control for **Harley Davidson VRSC V-Rod from 2001**



NOTE: - This cruise control kit is available in two versions, earlier models without ABS brakes and later models with ABS brakes. The wiring harness is different if the bike has ABS anti-lock brakes.

The location of the cruise control computer also has two options, see below for details.

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

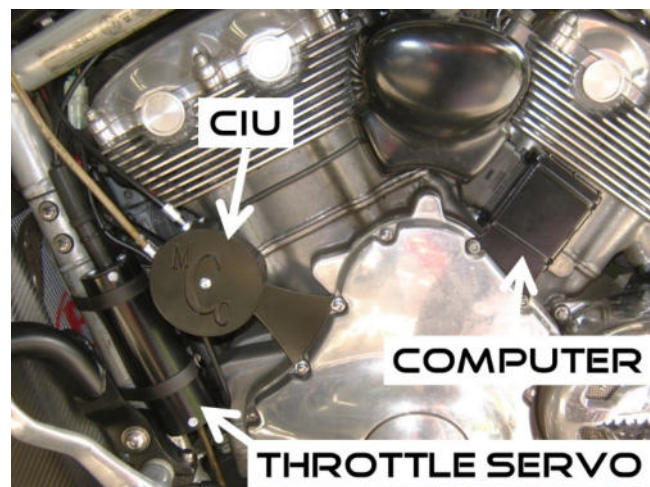
Installed weight of the cruise control is approximately 2.5kg.

Current draw while the cruise is switched on, but not engaged, is approximately 0.250 amp (3 watts). Current draw while the cruise is engaged is nominally 0.50~0.80 amp (6~10 Watts).

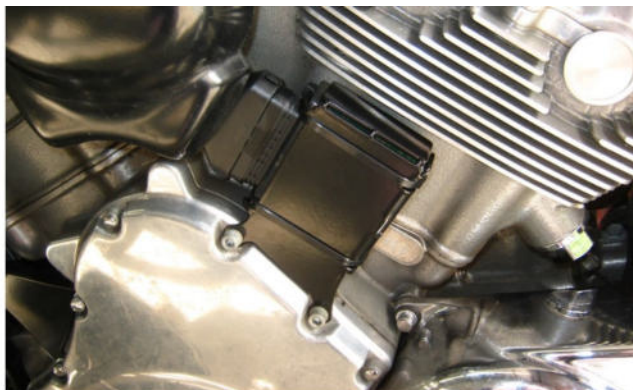
By comparison, a head light bulb typically draws about 4 amps (55 Watts), and a tail light bulb (running light) draws about 0.4 amp (5 Watts).

Refer to the line drawing on the back of this sheet to identify the components from the numbers in the text.

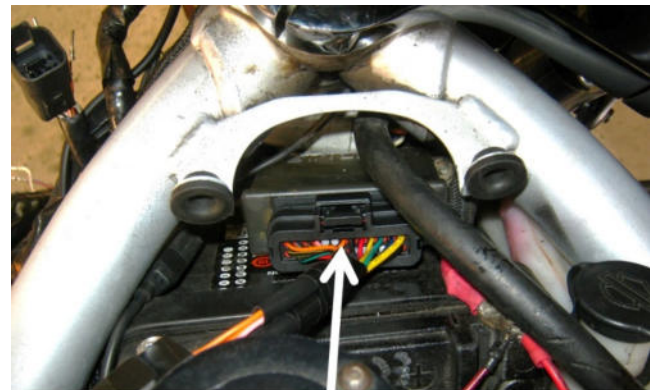
This photo shows three of the major components in the cruise control, the Computer (1), Throttle Servo (3) and the Cable Interface Unit (CIU) (4), all mounted on the left side of the motor.



The **Computer (1)** is mounted on the left side of the engine for standard installations using a satin black custom **Mounting Bracket (2)**, as shown below left. There is a large cavity above the battery that has the air lifter inlet pipe in this space on standard bikes. If the bike's air filter housing top cover has been removed (a common modification), this space is available, and the cruise control **Computer (1)** can be mounted there instead. The mounting location for the computer **MUST** be specified when ordering the cruise control, the wiring harness is different for each version.



**STANDARD COMPUTER
MOUNTING POSITION**



**OPTIONAL COMPUTER
MOUNTING POSITION**

The **Electric Throttle Servo (3)** is mounted on the left side frame downtube.

The **CIU or Cable Interface Unit (4)** is mounted on the left side of the engine on a custom bracket. It has a new **cable (6)** running from it to the throttle bodies.

This bracket is finished in satin black powder coat. Note that this photo shows the bracket without the powder coat finish.

This photo shows the CIU without the **Optional Decorative Cover (5)**.



The photo below left shows the CIU fitted with the **Optional Decorative Cover (5)** with **Brushed Stainless Steel** finish.

The photo below right shows the CIU fitted with the **Optional Decorative Cover (5)** with **Satin Black Powder Coat** finish.

Both these photos show the CIU mounting bracket with the black finish.



MotorCycle Cruise Controls

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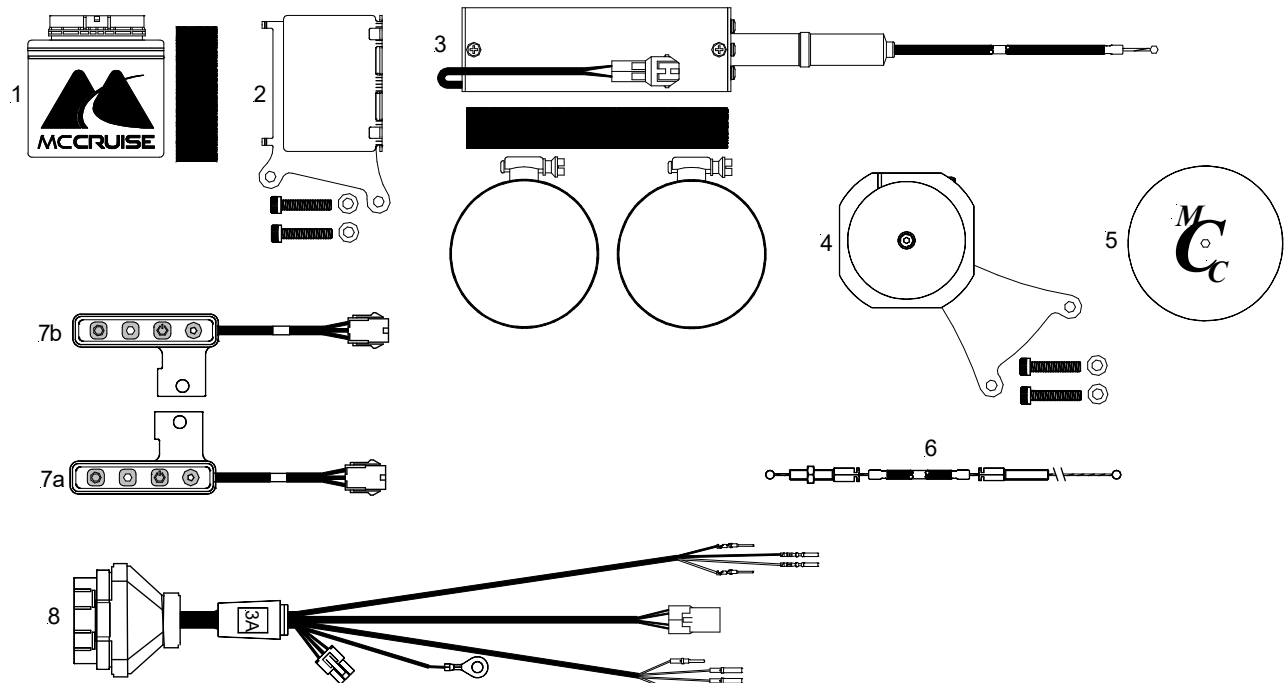
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The **Control Switch (7a & 7b)** is mounted on the left hand (clutch) lever mount. The switch can be selected to mount below the bike's left side switch block (photo below left) or above the left switch block (photo below right). This can be swapped at any time, the mounting bracket is the same for both positions, the bracket is turned over to change the mounting position.



The **Wiring Harness (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 disconnecting the plug for the right side handlebar switch block. The terminals for the front brake light switch are backed out and matching terminals on the cruise control harness are plugged in to the plug and the bike's harness. Road speed and Tach (engine speed) sensing is detected from the bike's ECM (engine control module). Tach is used to disengage the cruise if the clutch is operated. On models with ABS brakes, the cruise control is also connected to the bike's rear brake light switch, as the front and rear brake switches are on separate circuits. The cruise control is grounded on the negative battery terminal. The wiring harness is a 'custom' finished item, with all parts of the harness cut length and terminated appropriately.



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