

# *Electronic Cruise Control for* **HONDA VFR800X CROSSRUNNER**



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 0.20 amp (2 watts). Current draw while the cruise is engaged is nominally 0.50~1.50 amp (6~18 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 end of this document to identify the components from the numbers in the text.

The **Computer (1)** mounts in the front left corner of the bike, just above and in front of the radiator.

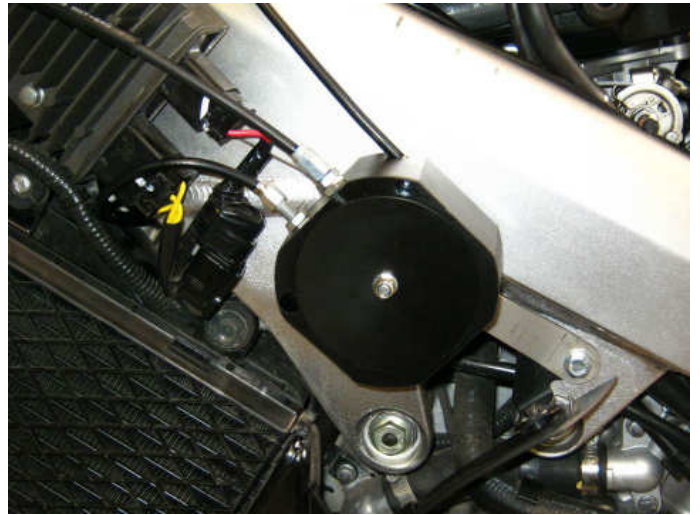
A close-up photograph of the MotorCycle Setup Computer (1) mounted on the front left corner of the Honda VFR800X Crossrunner. The device is a white rectangular box with the 'MotorCycle Setup' logo and 'MCCRUISE' branding. A white arrow points to the device. The surrounding area shows the engine, radiator, and various wiring.

The **Electric Throttle Servo (2)** is mounted behind the passenger footrest mount on the right side. Note that the servo is now finished in black instead of silver.

A close-up photograph of the Electric Throttle Servo (2) mounted on the right side of the Honda VFR800X Crossrunner. The servo is a black cylindrical component mounted behind the passenger footrest. A white arrow points to the servo. The surrounding area shows the footrest, engine, and various mechanical parts.

A close-up photograph of the Electric Throttle Servo (2) mounted on the right side of the Honda VFR800X Crossrunner. The servo is a black cylindrical component mounted behind the passenger footrest. A black arrow points to the servo. The surrounding area shows the footrest, engine, and various mechanical parts.

The CIU (3) is located on the left side of the bike, above the rear corner of the radiator. It is hidden inside the fairing. A new cable (4) connects it to the throttle bodies.



The photos below show the computer (left arrow) and CIU (right arrow) with the fairing removed and their locations with the fairing fitted.



The Control Switch (5) normally mounts above the handlebar on the left side, the mounting bracket is mounted to the left hand (clutch) master cylinder handlebar clamp. The bracket mounts between the upper faces of the clamp. The clamp must have about 2mm (0.080") filed from the upper face to allow for the thickness of the switch bracket.



## ***MotorCycle Cruise Controls***

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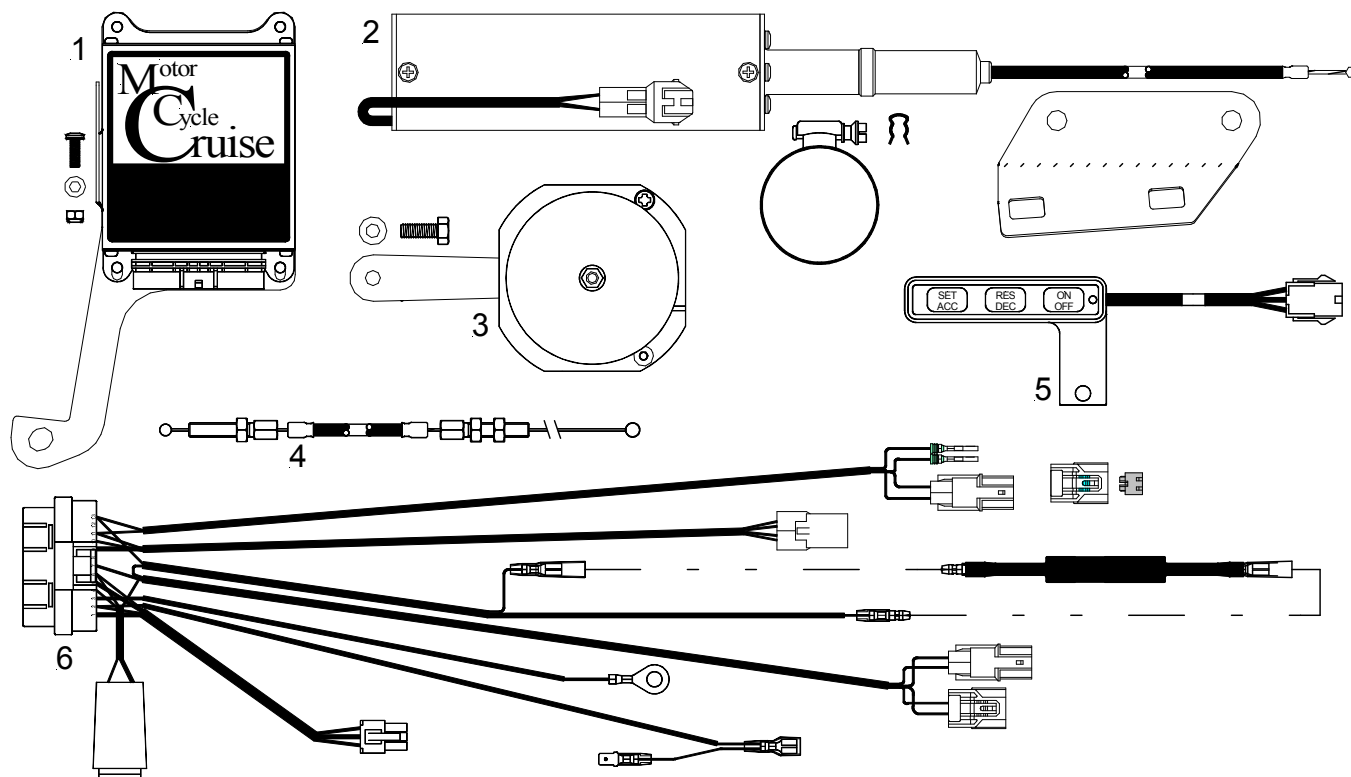
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The **Wiring Harness (6)** has the same type of plugs or terminals that are already used on the motorcycle. Power for the cruise control and brake sensing is taken off the brake light switches by unplugging the rear brake light switch. Matching connectors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



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