

# Electronic Cruise Control for Honda VTX1800C



Note: Some later models of VTX1800 have the coolant overflow tank located the 'V' in the cylinder on the left side, behind a large chrome cover. This location is used for the cruise control CIU (see photo below) on this kit, so this kit will NOT fit later model bikes. We have a different kit available for the later models, part number MCS4550.

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 2.0kg.

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 component numbers in the text.

The **Computer (1)** mounts under the left side cover on a metal mount plate. Because of the placement of the computer mounting bracket, a 10mm spanner (wrench) is required to access the bikes tool storage compartment.



The **Actuator (2)** is bolted to the frame below the swing arm using the mounting bolts for the left side passenger footrest. Black powder coated aluminium covers are supplied to prevent dirt and water ingress into the actuator and to improve the appearance of the actuator. A **vacuum hose assembly (3)** is provided to connect the actuator to the engine.

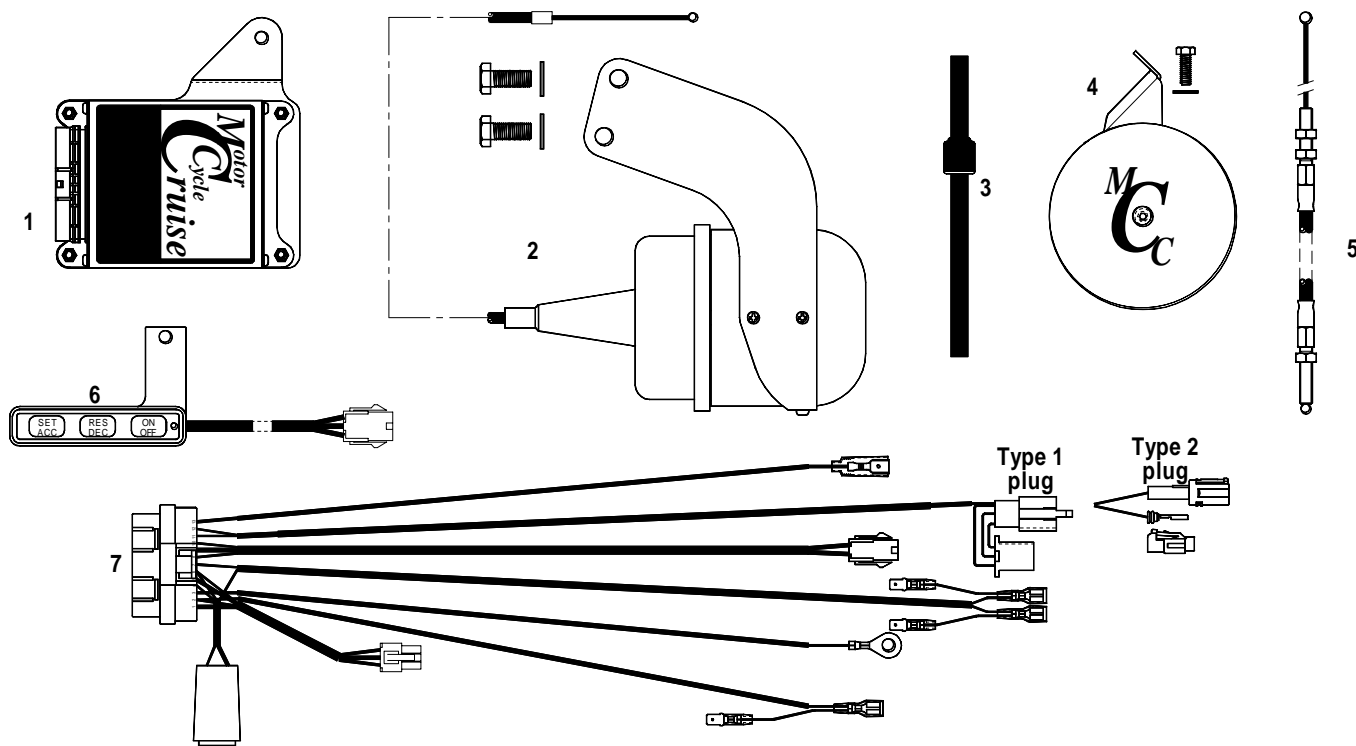
The **Cable Interface Unit (4)** is located on the left side of the motor, near the top of the 'V' between the cylinders. The CIU is supplied with a polished stainless steel cover to enhance its appearance. It has a new **cable (5)** running from it to the fuel injection throttles.



The **Control Switch (6)** is mounted 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 1~1.5mm (0.040"~0.060") filed from the bottom face to allow for the thickness of the switch bracket.

The **Wiring Loom (7)** 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 front 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 coils. 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.

**NOTE: - In order to supply the correct loom for your bike, you need to identify what type of speedometer sender plugs it has. See the below for instructions on how to identify the plugs.**



## How to determine the speedometer sender plug type.

During development of the cruise control for the VTX1800 we have been aware that there are two different types of speedometer sender connecting plugs. At this stage it is not known if this change was made during a model year change, or if the difference is between the VTX1800 Retro and the Standard.

In order to supply the correct wiring loom for the bike, we need to know what type of plug your bike has. This is fairly easy to determine by following the instructions below.

The connecting plug for the speedometer sender is concealed under the left side transmission housing cover.

### *MotorCycle Cruise Controls*

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Remove the left side transmission housing chrome cover.

- The cover is held on with seven hex head bolts. Remove the bolts and remove the cover. There are seven rubber washers in the inside face of the cover. Be careful not to dislodge and lose them.



Remove the chrome trim under the ignition switch.

- Remove the two mounting bolts for the chrome trim frame and remove the frame and trim.



Locate the speedometer sender connection plug.

- Locate the bike's speedometer sender plug. This is inside a plastic sleeve with some other plugs near the coolant hose under the ignition switch.



- The speedometer sensor plug is a three way plug with three wires, one green, one black and one pink.



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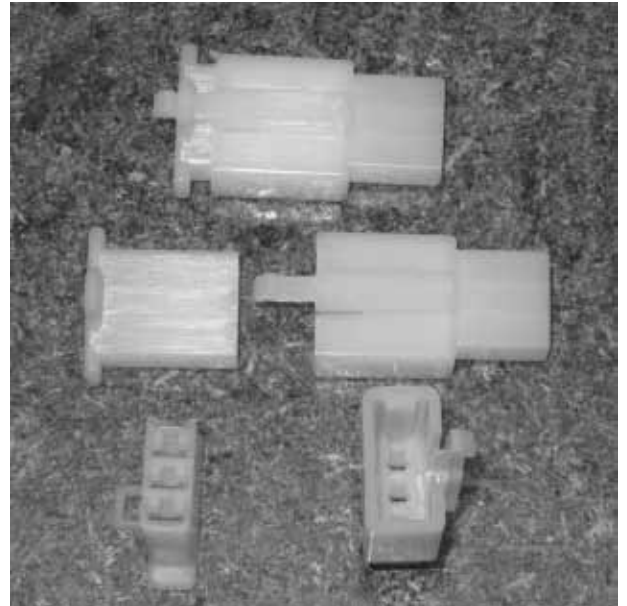
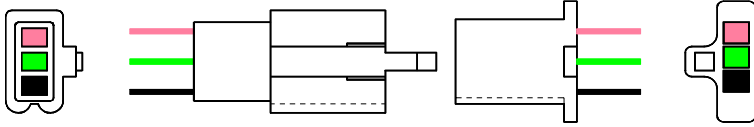
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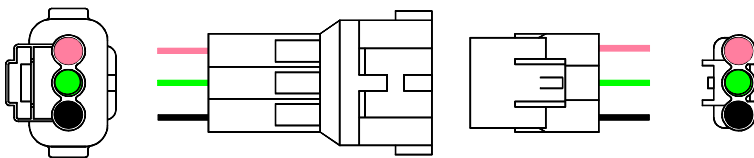
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- The bike used to prototype the cruise control used square section unsealed connectors as shown in these photograph. We call these connectors Type 1.



- A later model VTX1800 that we have seen used rounded sealed connectors as shown in these photograph. We call these connectors Type 2.



- Please determine what type of connectors are fitted to your bike, and check on the bikes frame identification tag (VIN plate) EXACTLY what model and year your motorcycle is. Also check that the wire colours and location in the plugs match those in the photographs.
- We will need all of this information before we can supply the cruise control.

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