

# Electronic Cruise Control for Honda VFR800FI ABS (High exhaust pipes)



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.

The **Computer (1)** mounts under the seat on the right side. Foam mounting tape is provided to mount it, or it may be attached with screws.



The **Actuator (2)** is bolted to the front of the motor beside the oil filter, using one of the starter motor mounting bolts and a lug on the oil pan. **NOTE: - Some overseas models have a carbon evaporative emissions canister mounted in this location. This will have to be moved in order to fit the cruise control.** A **vacuum hose assembly (3)** is provided to connect the actuator to the engine.



The **CIU (4)** is located on the left side of the bike, above the coolant header tank.

The **CIU** has a new **cable (5)** running from it to the throttle bodies.

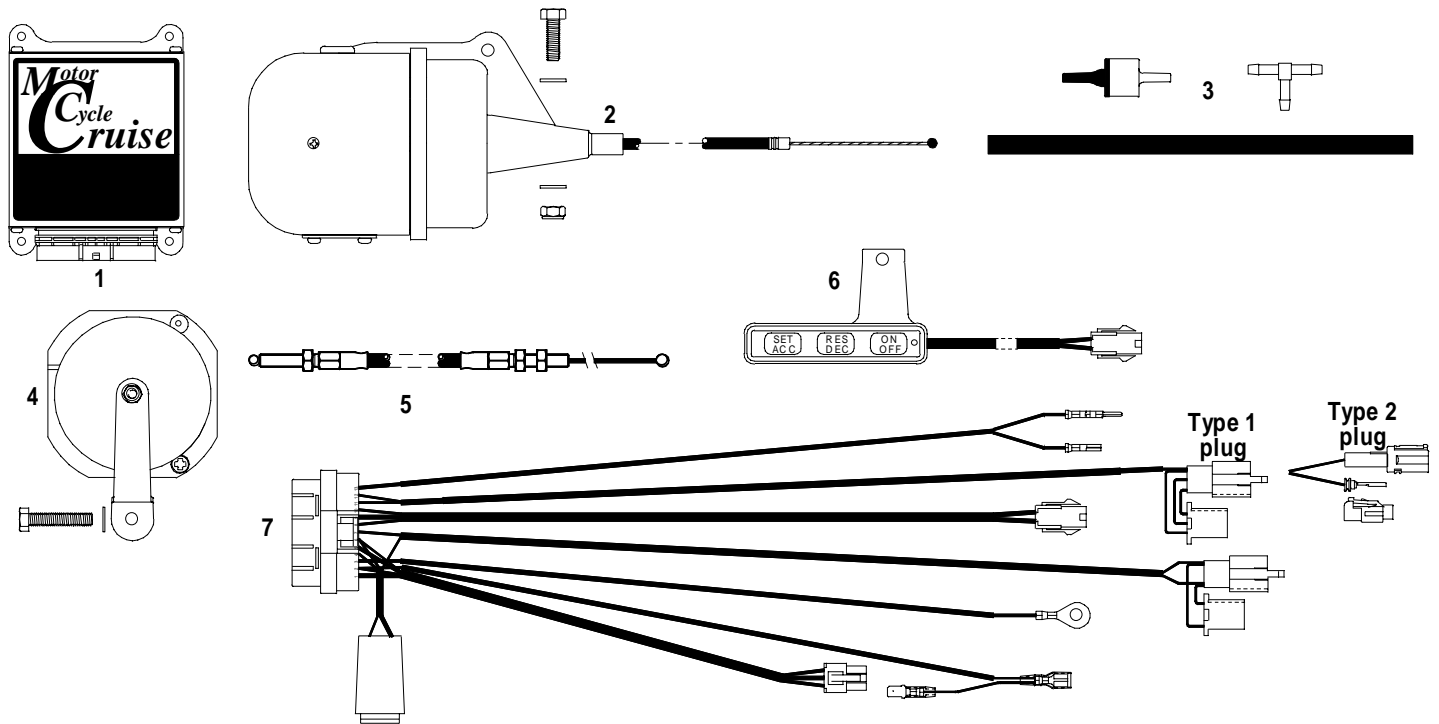


The **Control Switch (6)** is mounted to the left hand (clutch) master cylinder handlebar clamp and is located below the left hand switch block. The bracket mounts between the lower faces of the clamp. The clamp must have about 1~1.5mm (0.040"~0.060") filed from the lower face of the clamp to allow for 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 rear brake light switch. Matching connectors on the cruise control loom are plugged in to the switch and the bike's loom. Tach (engine speed) sensing is detected from the bike's tachometer signal 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. Speed sensing is taken from the bike's speedometer sender.

**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 next page for instructions on how to identify the plugs.**



## MotorCycle Setup P/L

ABN 94 798 167 654

6 Kingston Street  
Mount Waverley VIC 3149  
AUSTRALIA

Web Site:

<http://www.mccruise.com>

International:

Phone (International Access Code) 61 3 9808 2804

Fax (International Access Code) 61 3 9808 2445

Australia:

Phone (03) 9808 2804

Fax (03) 9808 2445

E-mail: [mcsetup@bigpond.net.au](mailto:mcsetup@bigpond.net.au)

# How to determine the speedometer sender plug type.

During development of the cruise control for the VFR800FI we have been aware that there are two different types of speedometer sender connecting plugs. At this stage it is not known when this change was made, but it appears the change occurred with the change to the 2007 model year.

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 fairing panel.

Remove the left side fairing panel.

Remove the mounting screws and clips and remove the left side fairing panel.

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 lower front corner of the coolant reservoir.
- The speedometer sensor plug is a three way plug with three wires, one green, one black and one pink.



- The early (2002 without ABS) bike used to prototype the cruise control used square section unsealed connectors as shown in this photo. We will call these connectors Type 1.



- A later bike (2007 without ABS) that we have seen used rounded sealed connectors as shown in these photographs. We will 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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