

Electronic Cruise Control for BMW R1150RT



NOTE: - Check the section at the end of this brochure for emissions control equipment that may be fitted to your motorcycle. This must be specified when the cruise control is ordered in order to supply the correct components in the cruise control kit.

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 in the rear storage compartment, under the rear of the seat. It is mounted in a **foam block (2)**.



The **Actuator (3)** is bolted to the fairing frame, behind and above the oil cooler. A **vacuum hose assembly (4)** is provided to connect the actuator to the engine.

On bikes equipped with a fan on the oil cooler (police models often have the cooling fan), there is not enough room behind the oil cooler, so the **Actuator** is bolted to the fairing frame on the left side



The **Cable Interface Unit (5)** is bolted to the fairing frame on the right side of the front suspension. It uses the same mounting point as the bike's horn. A selection of fittings, **new cable and cable fittings and nipples (6)** are provided to allow this to be 'patched' in to the bike's throttle cable. This involves cutting the original throttle cable, fitting a new cable nipple and adjuster to it to allow connection from the motorcycle's throttle bodies to the CIU. A new inner cable and nipple and adjuster are also fitted to the remainder of the cable from the twist grip and this is also connected to the CIU.

This photo shows the **Actuator** (black arrow) and **CIU** (white arrow) from the front of the bike.



The **Speed sensor** (7) is mounted in front of the left hand fork leg. Nickel-plated magnets are placed in the heads of the bolts that mount the brake disc.

The **Control Switch** (8) is mounted on the left hand (clutch) master cylinder fluid reservoir cap. New screws are supplied to replace two of the existing reservoir cap screws. The switch is located above the left switch block.



MotorCycle Cruise Controls

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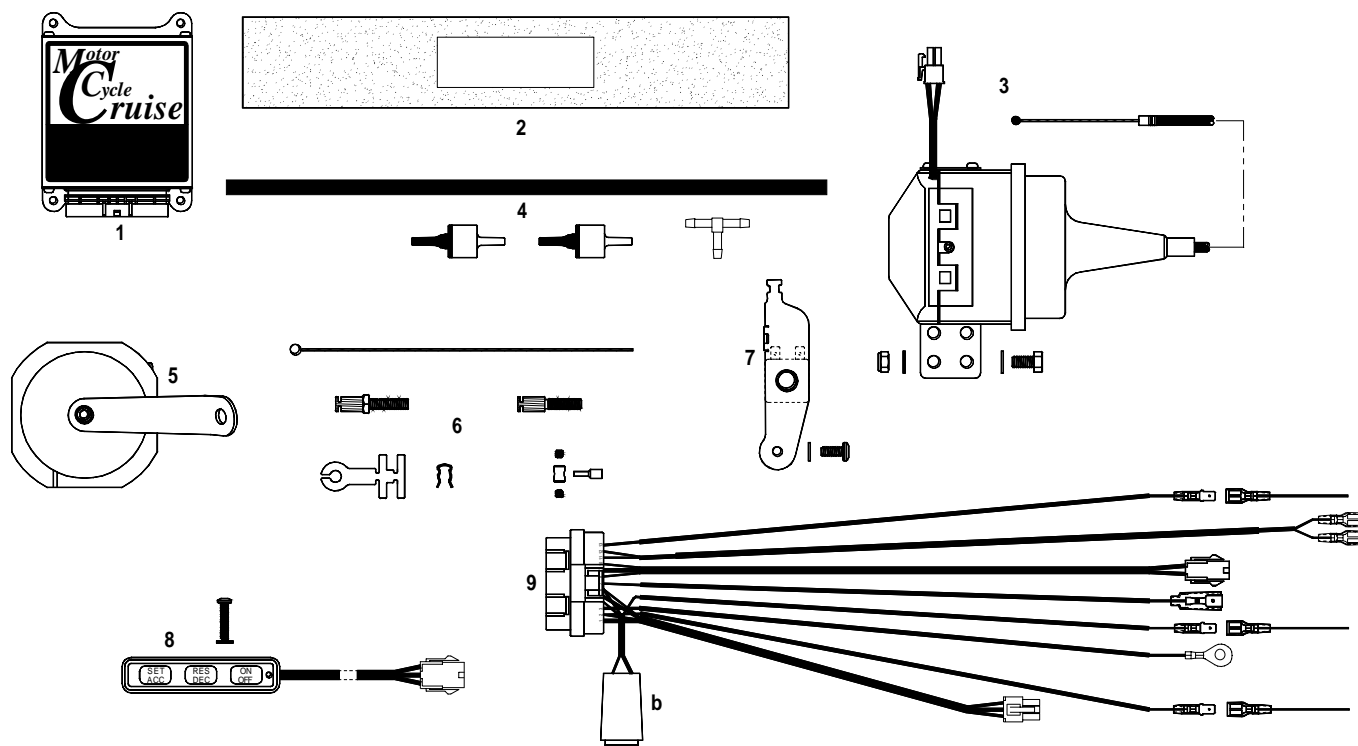
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The **Wiring Loom (9)** has the same type of plugs or terminals that are already used on the motorcycle, with three exceptions. Power for the cruise control is taken from the bike's heated grip circuit. Tach (engine speed) sensing is detected from the bike's tachometer signal wire. The bike's clutch switch is also connected to the cruise control to disengage the cruise control. These connections must be spliced. Splice terminals and heat shrink tube are supplied in the kit to make this connection. Brake sensing taken from a connection at the rear brake light. Matching connectors on the cruise control loom are plugged in to the light and the bike's loom. The cruise control is grounded on the negative battery terminal. The wiring loom is a 'custom' finished item, with all parts of the loom cut to length and terminated appropriately.



Motorcycles fitted with Evaporative Emissions Carbon Canister.

Some models (California and Switzerland?) are fitted with a carbon canister to reduce evaporative emissions. These models have hoses connected to the vacuum balance ports on the motorcycle's throttle bodies. Models that do not have these canisters have rubber blanking caps fitted to the vacuum ports.

The cruise control vacuum actuator is connected to these ports. Models with blanking caps can simply be connected to the ports. Models with the carbon canister require additional components in the kit to allow connection of the cruise control actuator and the carbon canister system. You must tell us if your bike requires these components when ordering the cruise control.

The photos show the location of the vacuum ports on the motorcycle. These ports are on the inlet manifolds (throttle bodies) close to the cylinder head.

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The vacuum port will be visible on underside of the inlet manifold close to the cylinder head.



This photo shows the rubber cap fitted to the port with the fairing removed. You do NOT need to remove the fairing to see the vacuum ports.

Check the ports on BOTH left and right cylinders. If there is a hose fitted to either or both ports, tell us when the cruise control is being ordered we can supply the additional components required with the kit.



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