

'Quad Cruise' Electronic Cruise & Crop Spray Control for Honda Pioneer SXS500 from 2014



Quad Cruise is a version of the MotorCycle Cruise Control that is designed to operate at speeds from 4 km/h up to 25kph. It can be programmed to operate at higher speeds on request, but 25kph is the 'standard' maximum speed.

There is also an optional 'Accessory/Spray Control' connection harness kit to provide power to any crop spray system fitted to the vehicle - either manually, or only when the cruise control is engaged, via a 10 amp power outlet that is connected into the main cruise control wiring harness. This means that spray operation occurs only when the vehicle's speed is held at the appropriate set speed on the cruise control.

The cruise control can be set to a specific speed to spray a row by pressing the SET button, turned off at the end of the row with any brake lever. The RESume button can be used to set the bike's speed back to the previous speed. The spray system will turn on and off with the cruise control, when the spray switch is in the AUTO position.

If a long job requiring a particular speed is being done, the SET speed can also be 'locked in' to prevent accidental changes to the set speed. Once this is done, both SET and RESume buttons become resume buttons and the SET speed cannot be changed until the cruise control is 'unlocked'. Locking and unlocking the SET speed is a 10 second operation.

Every effort has been made to make the cruise control waterproof. The computer (electronic module) is fully sealed, as is the electric throttle servo. Wherever possible sealed connectors have been used on the wiring harness.

The following provides a brief description of the power consumption and component locations of the Quad Cruise electronic speed and spray control.

Current draw while the cruise control is switched on, but not engaged, is approximately 0.020 amp (0.28 watts). Current draw while the cruise control is engaged is nominally 0.5 amp (6 Watts) with peak draw at 2 amp (24 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).

The following provides a brief description of the component locations of the 'Quad Cruise' electronic cruise control.

Current draw is approximately 0.020 amp (0.28 watts).

Installed weight of the cruise control is approximately 2.0kg (depending on model).

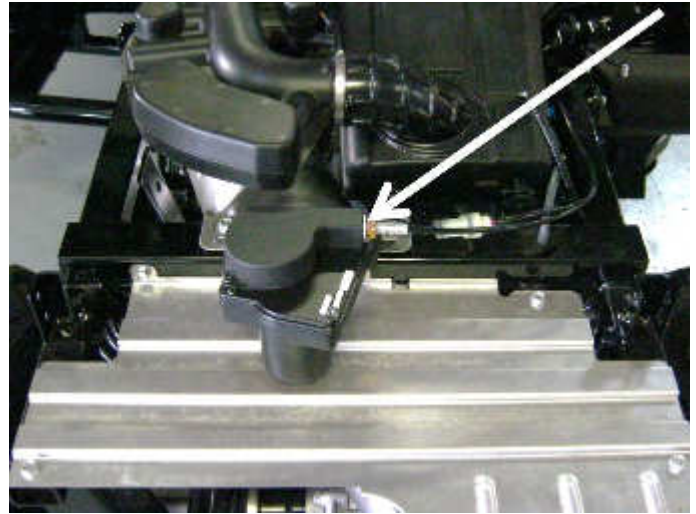
Refer to the line drawing on the back of this sheet to identify the component numbers in the text.

The **Computer (Cruise Control ECU) (1)** is installed in the storage compartment, under the passenger seat.

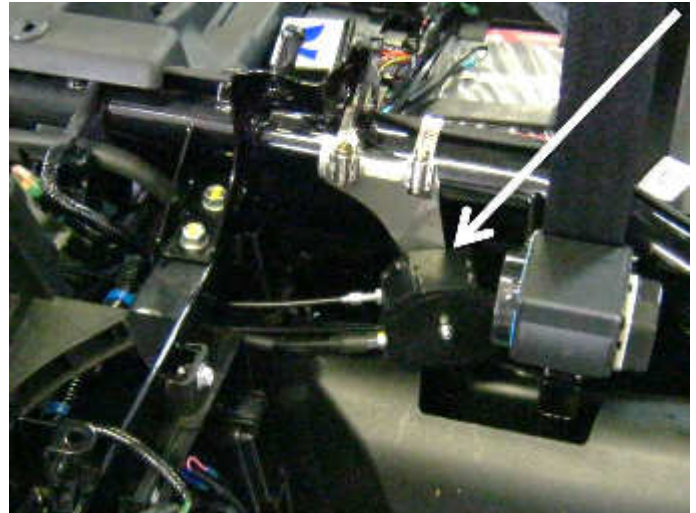
Note: - The relay shown at the left in this photo is for the speed limiter. This is an optional accessory that can be fitted to the cruise control, either during installation or after if desired.



The **Electric Throttle Servo (2)** is fitted at the rear of the vehicle, under the rear rack (left photo). It is bolted to the rear frame behind the air filter housing (right photo). A **Servo cable (3)** connects the throttle servo to the **CIU** (see below).



The **Cable Interface Unit (4)** is located behind the passenger seat and has a new **cable (5)** running from the CIU to the throttle body. The existing throttle cable is disconnected from the throttle body and is connected to the CIU. The CIU 'translates' throttle trigger movement and throttle servo operation to the vehicles throttle body. The photo below left shows the CIU with the rear body panel and rack in place. The photo below right shows the CIU with the panel and rack removed.



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The **Control Switch (6a with the spray switch or 6b without)** is mounted below the dashboard. The switch shown has the optional 'Accessory/Spray Control' switch fitted to it (arrowed).



The **Wiring Harness (7)** is dedicated to the vehicle. Power for the cruise control is sourced from the vehicles brake light switch connector. The brake light switch is disconnected and matching plugs on the speed limiter loom are connected to the vehicle's plugs. Neutral gear position detection is sourced from the vehicles neutral switch circuit. Speed signal is sourced from the vehicle's speedometer sender. Ground is sourced from the negative terminal of the battery.

The **Optional 'Accessory/Spray Power Kit' (8)** kit connects to two terminals on the main cruise control wiring harness, and connects to the battery for power. A two pin plug is provided at the rear of the vehicle for connection to the spray equipment or other accessories. Matching plug and terminals are provided in the kit for connection to the spray/accessory unit.

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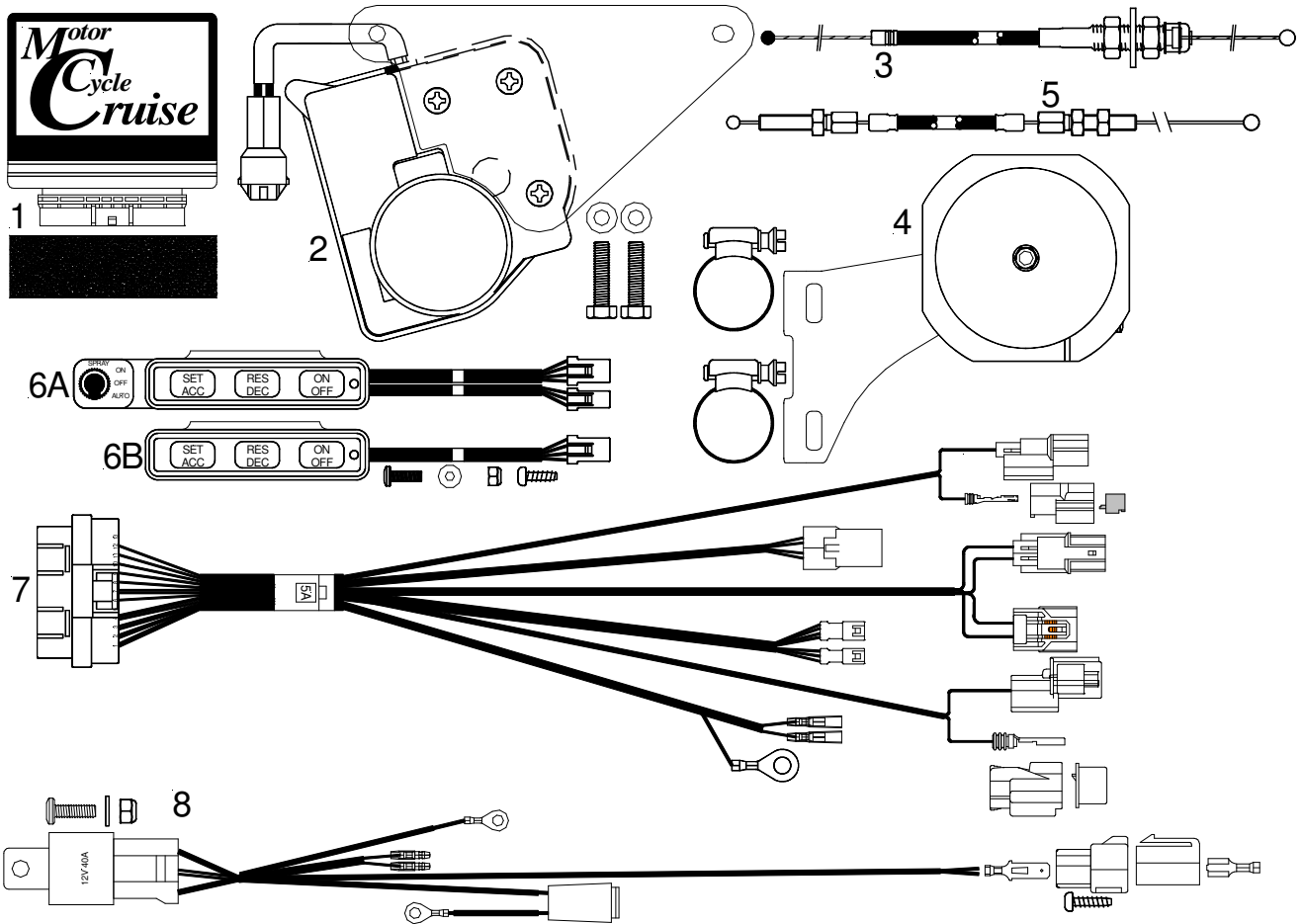
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