

'Quad Cruise' Electronic Cruise & Spray Control for Kawasaki Mule 3010 Trans 4x4 Diesel 2007

Quad Cruise

Quad Cruise is a new version of the MotorCycle Setup cruise control that is designed to operate at speeds from 4 km/h. It has also been designed to provide power to any crop spray system fitted to the bike - either manually, or only when the cruise control is engaged, via a 10 amp power outlet that is incorporated into the wiring loom. This means that spray operation occurs only when the bike'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 RES 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.

Every effort has been made to make the cruise control waterproof. The new computer is fully sealed, as is the electric actuator. 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 MotorCycle Setup 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).

Installed weight of the cruise control is approximately 3kg.

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

The **Computer (1)** and **Electric Actuator or throttle servo (2)** are mounted inside the front compartment on the right side of the vehicle. An **Actuator cable (3)** connects the actuator to the **CIU (see below)**.



The actuator is normally covered by the front storage bin.



The '**Cable Interface Unit (CIU) (4)** is located in front of the brake master cylinder and has a new **cable (5)** running from it to the throttle pedal. The existing throttle cable is disconnected from the throttle pedal and reconnected to the CIU.

A **tone wheel (6)** and **speed sensor (7)** and are supplied to be fitted to the gear box. This is fitted to the drive shaft that runs to the front axle.



The **Control Switch (8)** is mounted on the left of the steering wheel inside the top of the 'glove box' cubby hole at the left end of the dashboard.

The **Wiring Loom (9)** is dedicated to the vehicle. Brake sensing is sourced from the brake light switch. Power for the speed control is also sourced from the vehicle brake light circuit. Neutral gear sensing is sourced from the vehicle neutral light switch. Earth (ground) is sourced from the battery negative terminal. Power for the spray system is sourced from the battery positive terminal and a two pin plug is provided at the rear of the vehicle for connection to the spray. Matching plug and terminals are provided in the kit for connection to the spray unit.

