

# 'SpeedSafe' Electronic Speed Limiter for Honda TRX420

# QuadCruise

The 'SpeedSafe' is a new option for our 'QuadCruise' electronic cruise control for ATV's. The 'SpeedSafe' speed limiter may be added to an existing 'QuadCruise' installation or fitted as a stand alone speed limiter without the 'QuadCruise' cruise control. A 'QuadCruise' cruise control may also be fitted after the speed limiter is fitted, using some of the parts already supplied with the speed limiter (computer and control switch).

The 'SpeedSafe' speed limiter can be set to any speed desired. The 'SpeedSafe' speed limiter allows full use of the available power on the ATV up to the limiting speed. When the vehicle reaches the limiting speed, the speed limiter progressively cuts engine power. At the limiting speed the engine develops a slight misfire, however if the operator tries to go faster by applying more throttle, the speed limiter gradually makes the misfire worse up to a maximum of 5 kph (3mph) over the limiting speed. Most ATV's will not have enough power available to reach this speed (~90% power cut).

The following provides a brief description of the component locations of the 'SpeedSafe' electronic speed limiter.

Current draw is approximately 0.020 amp (0.28 watts).

Installed weight of the speed limiter by itself (not including cruise control parts) is approximately 0.5~1.0kg (depending on model).

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

The **Computer (1)** is installed in the rear storage compartment.



The **Control Switch (2)** is hand held for setup of the speed limiter, and is then removed from the vehicle. This remains fitted to the vehicle when the cruise control is fitted, but there is a specific set of instructions that must be followed so that the speed limiter setup cannot be altered by the operator accidentally or intentionally.



The **Wiring Loom (3)** is dedicated to the vehicle. Power for the speed limiter is sourced from the vehicles rear brake light switch connector. The rear brake light switch is disconnected and matching plugs on the speed limiter loom are connected to the vehicle's plugs. Speed signal is sourced from the vehicle's speedometer sender using the same method as the brake switch connection, OR an optional rear axle speed sensor (for vehicles that are not fitted with a speedometer). The speed limiter is connected to the engine stop switch to cut the engine, also using the same method as the brake switch connection. Ground is sourced from the vehicle accessory ground connector.

The **Speed Sensor (4)** and **Rear Axle Tone Wheel (5)** must be fitted if the vehicle does not have an original Honda speedometer (some manual shift models do not have a speedometer).

**NOTE: - If the vehicle does not have an original Honda speedometer fitted to it, the rear axle speed sensor and tone wheel must be fitted to the vehicle. A speedometer is not required but the speed sensor must be fitted.**



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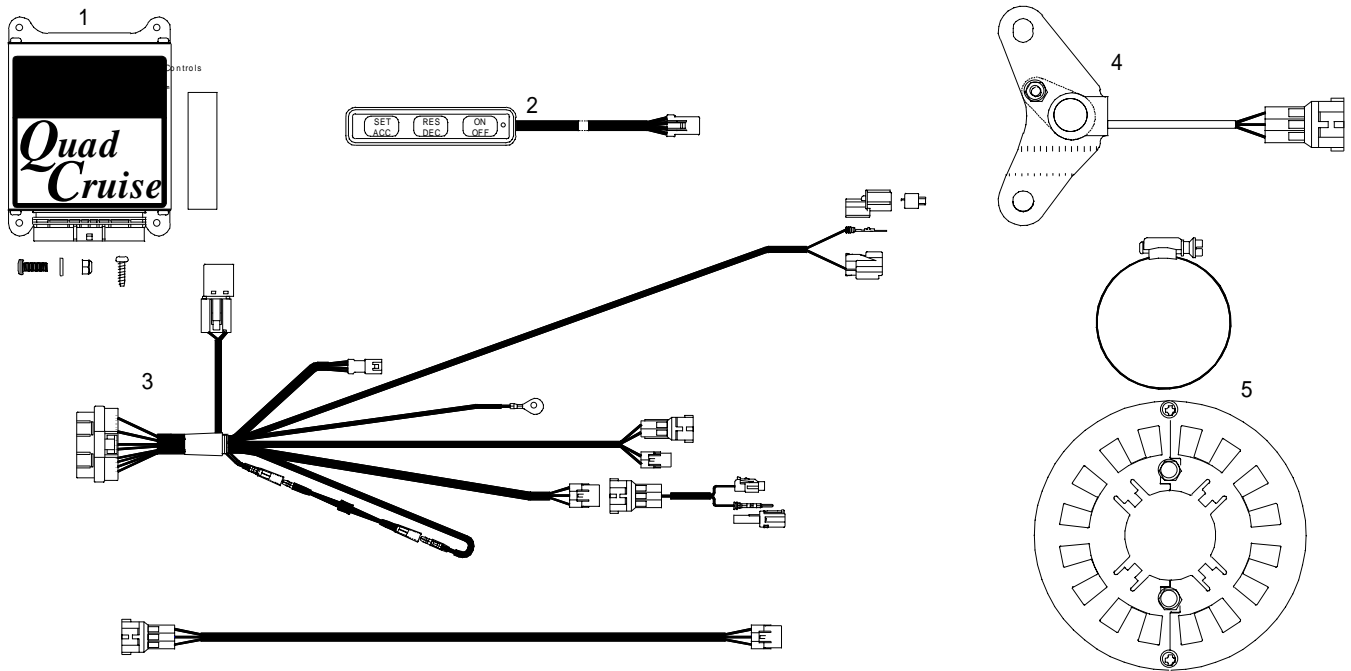
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