

Electronic Cruise Control for **HONDA Africa Twin CRF1000 & CRF1000DCT** **Throttle-By-Wire from 2018**



The following provides a brief description of the power consumption and component locations of the MotorCycle Setup electronic cruise control.

See the note about tools required for this installation at the end of this document.

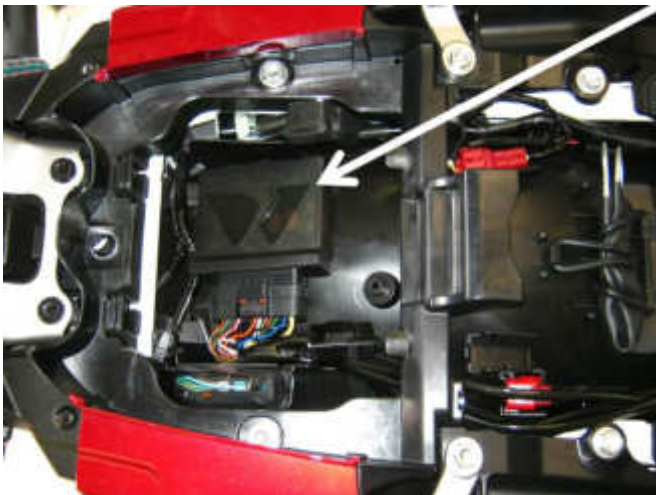
Installed weight of the cruise control is approximately 1.0kg.

Current draw is approximately 0.20 to 0.40 amp (2~4 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)** may be mounted under the passenger seat (photo below left) or under the riders seat (photo below right). There is self-adhesive Velcro provided in the kit to mount the computer.

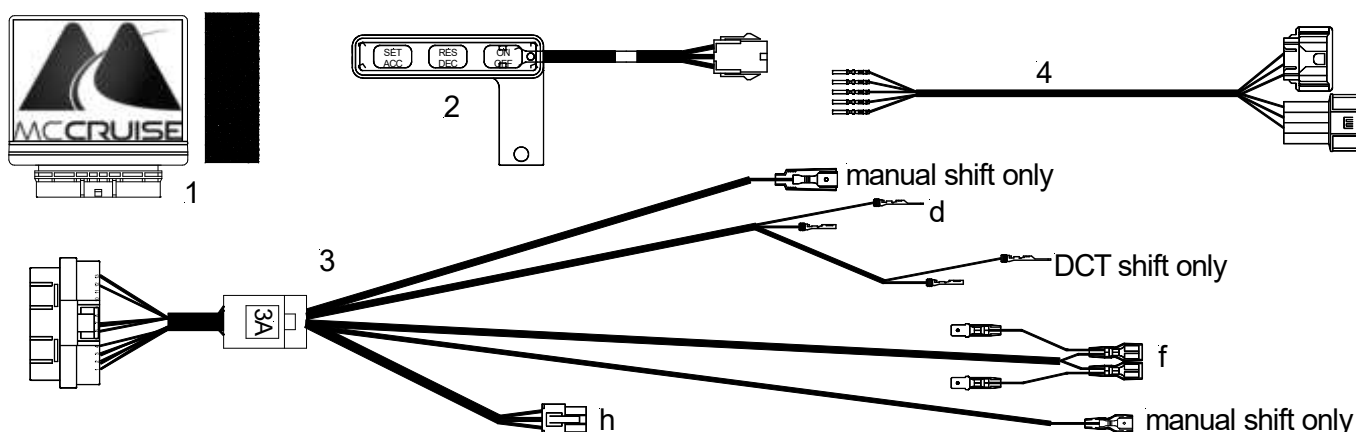


The **Control Switch (2)** mounts above the handlebar on the left side on the clutch lever mount (manual shift) or the park brake lever mount (DCT shift).



The **Main Wiring Harness (3)** 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 circuit by unplugging the front brake light switch. Matching connectors on the cruise control loom are plugged in to the switch and the bike's harness. Road speed sensing is detected from the bike's speedometer circuit. Tach signal is sourced from one of the ignition coils on manual shift bikes. Tach signal 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 (manual shift only). On bike's with DCT shift, Neutral gear selection is detected from the bike's neutral light circuit.

The **TPS Wiring Harness (4)** connects the bike's Throttle Position Sensor (TPS). This connection is used to operate the bike's throttle. The connectors, terminals and seals used on this harness are the same type as used on the motorcycle's original TPS connection to ensure that an OE quality connection is maintained. There is no cutting or splicing of wires required anywhere in the installation of the cruise control kit.



NOTE: - The installation of the cruise control also requires that small and delicate electrical terminals are backed out of connector housings. Suitable tools to do this are available to be ordered with the cruise control if the installer does not have such tools already. Backing out these terminals without suitable tools is almost impossible.

If the cruise control is ordered with the optional terminal extractor set the correct tool in the set is identified by a paint mark (arrowed). Note that we apply the paint. If you have your own terminal extractors they will not be marked.

The width of the blade on this tool is 1.4~1.5mm and the thickness of the blade is 0.5~0.6mm. Ideally, for this application the tool should probably be a little wider, 1.7mm or so, the blade thickness seems to be fine.



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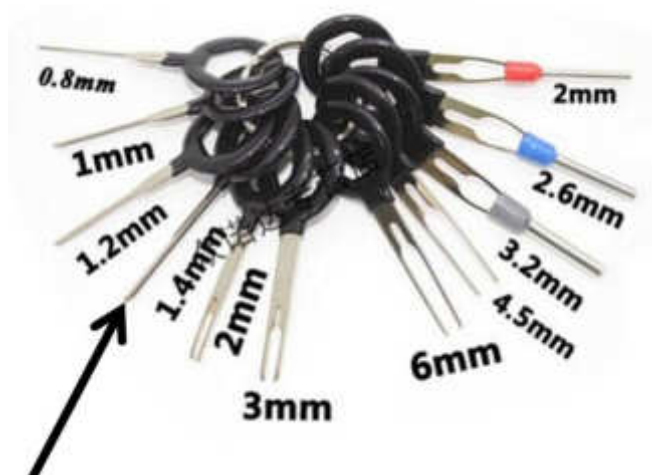
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The 11 piece set we supply in the kit as an optional purchase seems to be generally available on Ali-Express and EBay for a few of dollars, by searching for the part number ZZLJ7596 or by searching for 'terminal extractor set'.

The set in the photo is a typical 11 piece extractor set. The tool needed is the arrowed with 1.4mm wide blade.

In some cases it is useful to use the second 1.2mm blade as well.



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