

POWER COMMANDER 6

Install guide for: PC6-17061

Model coverage: 2015-2021 Kawasaki Vulcan S

PARTS LIST

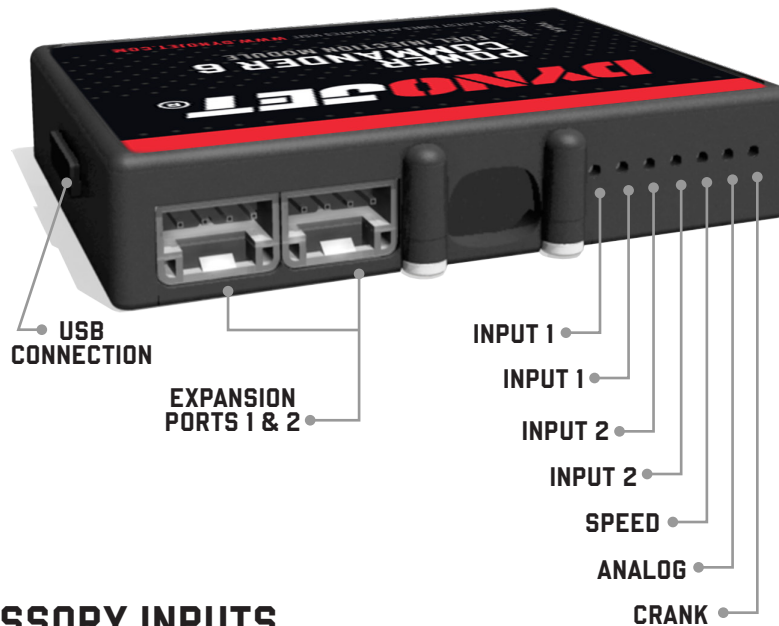


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|----------------------|--------------------------|
| 1 POWER COMMANDER 6 | 2 POWER COMMANDER DECALS |
| 1 INSTALLATION GUIDE | 2 VELCRO STRIPS |
| 1 USB CABLE | 1 ALCOHOL SWAB |
| 2 DYNOJET DECALS | |

**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION.
THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION.**



INPUT ACCESSORY GUIDE



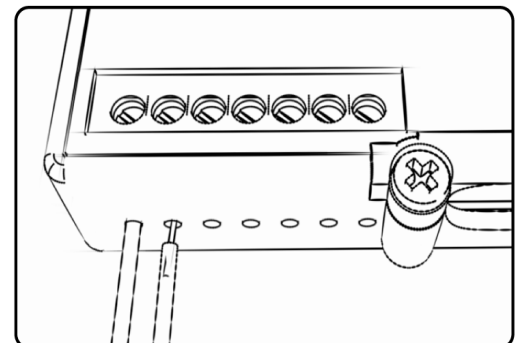
OPTIONAL ACCESSORY INPUTS

- Map** (Input 1 or 2) The PC6 has the ability to hold 2 different base maps. You can switch on the fly between these two base maps when you hook up a switch to the MAP inputs. You can use any open/close type switch. The polarity of the wires is not important.
- Shifter** (Input 1 or 2) Used for clutch-less full throttle upshifts. Insert the wires from the Dynojet quick shifter into either Input 1 or Input 2. The polarity of the wires is not important. Set to Input 2 by default.
- Speed** If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent kill times when using a quickshifter. .
- Analog** This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the Power Core software.
- Launch** You can connect a wire to either Input 1 or Input 2 and then the other end to a switch. This switch when engaged (continuity) will only allow the RPM to be raised to a certain limit (set in the software). When released, you will have full RPM.

WIRE CONNECTIONS

To input wires into the PC6 first remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input. Using a 22-24 gauge wire, strip about 10mm from its end. Push the wire into the hole of the PC6 until it stops and then tighten the screw. Make sure to reinstall the rubber plug.

NOTE: If you tin the wires with solder it will make inserting them easier.



INSTALLING THE POWER COMMANDER 6



REMOVE BODYWORK

- 1 Remove the seat, the left side panel, the key switch cover. Remove the left and right side knee panels.



REMOVE BODYWORK

- 2 Remove the right side cover located rear of the engine. Remove the right side radiator side cover.
- 3 Remove the fuel tank.

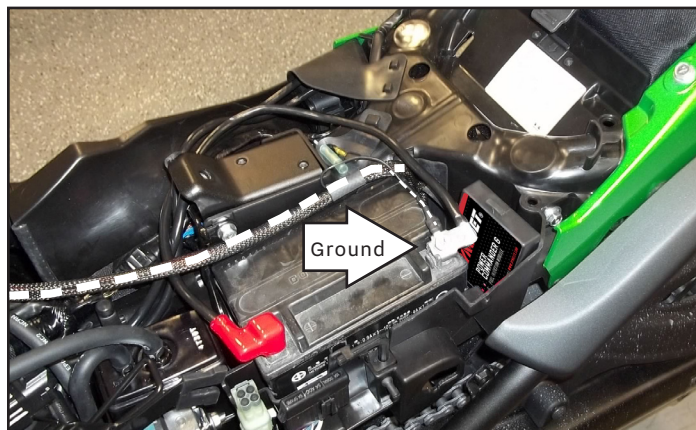


CONNECT TO INJECTORS

- 4 Remove the ECU and loosen the stock wiring from the airbox. Remove the airbox.

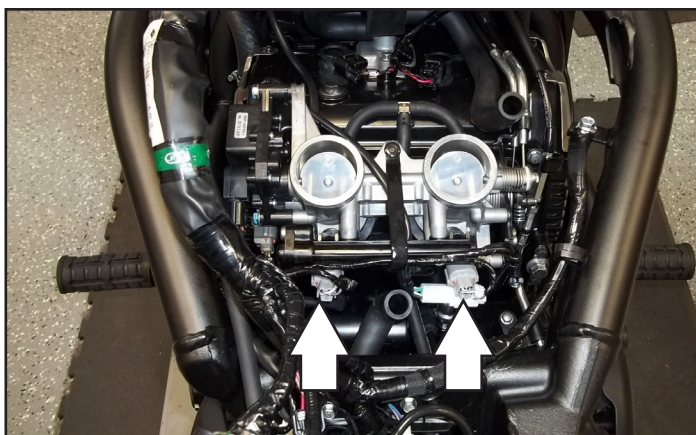
INSTALLING THE POWER COMMANDER 6

- 5 Store the PC6 module under the seat, just rear of the battery. The supplied Velcro can be used to secure the module. Clean both surfaces with the supplied alcohol swab prior to applying the Velcro adhesive.
- 6 Secure the PC6 ground wire with the small ring lug to the negative (-) terminal of the bike's battery.
- 7 Route the PC6 wiring harness forward towards the engine.



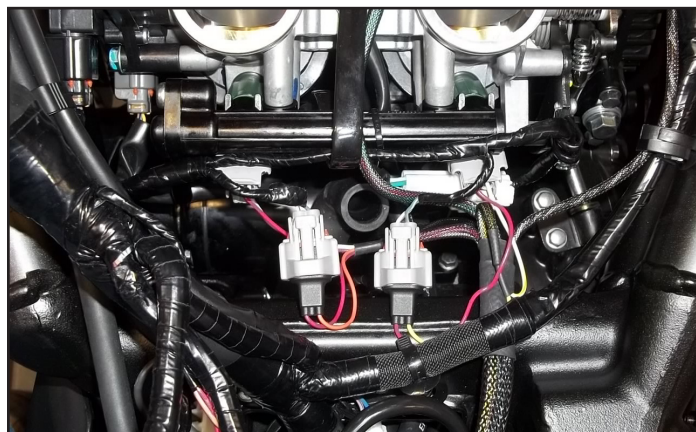
ATTACH GROUND

- 8 At the rear of the throttle bodies, unplug both fuel injectors.



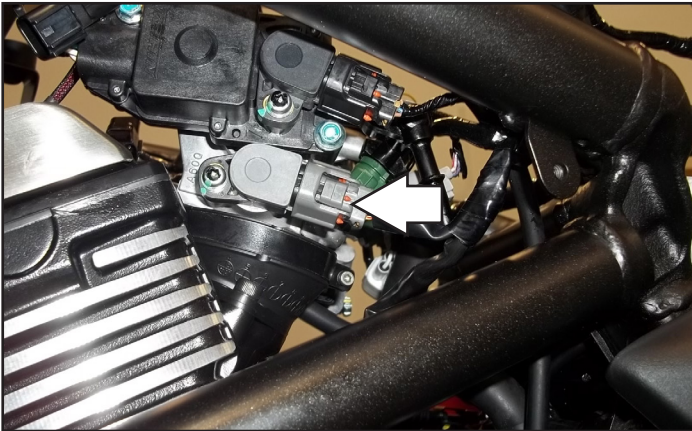
UNPLUG INJECTORS

- 9 Plug the pair of PC6 leads with ORANGE colored wires in-line of the LEFT fuel injector and the stock wiring harness.
- 10 Plug the pair of PC6 leads with YELLOW colored wires in-line of the RIGHT fuel injector and the stock wiring harness.



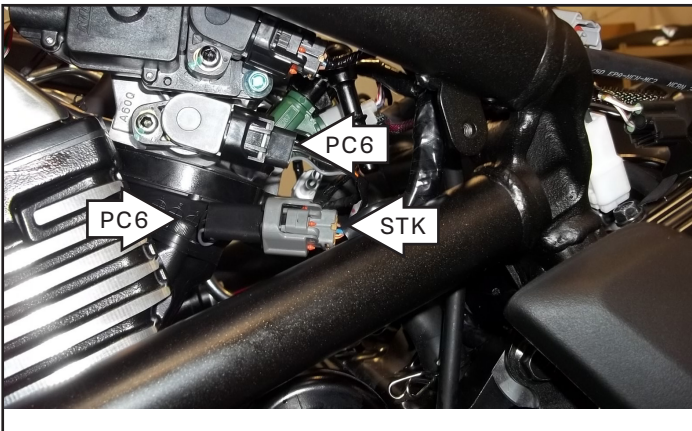
CONNECT TO INJECTORS

INSTALLING THE POWER COMMANDER 6



UNPLUG TPS

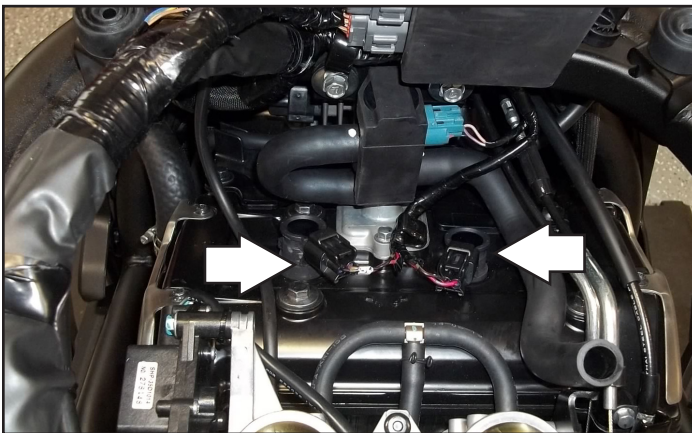
- 11 On the left side of the throttle bodies, unplug the lower primary Throttle Position Sensor with the stock GREY connector.



CONNECT TO TPS

- 12 Plug the PC6 wiring harness in-line of the lower primary Throttle Position Sensor and the stock wiring harness.

Make sure you do NOT connect to the BLACK connector.

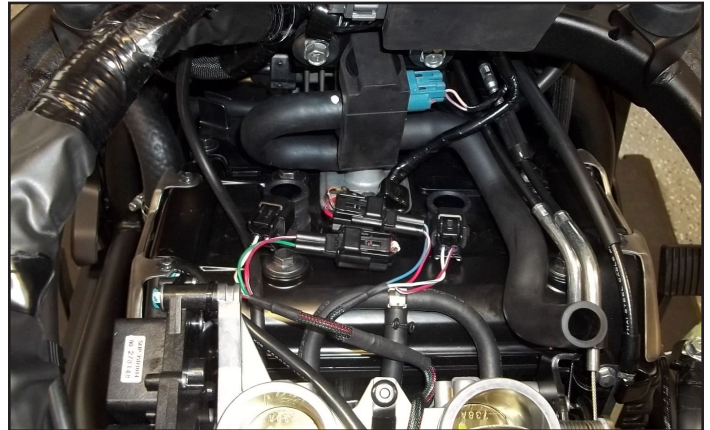


UNPLUG COILS

- 13 Unplug the stock wiring harness from both ignition coils at the top of the engine.

INSTALLING THE POWER COMMANDER 6

- 14 Plug the pair of PC6 leads with GREEN colored wires in-line of the LEFT Ignition Coil and the stock wiring harness.
- 15 Plug the pair of PC6 leads with BLUE colored wires in-line of the RIGHT Ignition Coil and the stock wiring harness.



CONNECT TO COILS

- 16 Unplug the stock Crank Position Sensor connector.

This is a BLACK 3 pin connector located on the right side of the bike, near the radiator cap.

- 17 Plug the pair of PC6 leads with BROWN colored wires in-line of the stock Crank Position Sensor connectors.
- 18 Make sure the wiring harness is free and clear of any hot or moving parts. Use wire ties to secure the wiring harness where necessary. Reinstall the airbox, the ECU, wiring harness, the fuel tank, body work, and the seat.
- 19 Affix the supplied CARB E.O. label to a conspicuous area. The best location is next to the original emissions label. Make sure to clean the surface before attaching the label.



CONNECT TO COIL



INSTALL PC6

Optional inputs:

Speed - PINK wire of speed sensor located behind the c/s sprocket cover

Engine Temperature - ORANGE wire of cylinder temp sensor

12v source for Auto-tune - RED wire of 3-pin connector for tail light - under seat



PUSH THE LIMIT

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