POWER COMMANDER 6

Installation Guide for: PC6-22046

Model Coverage: 2006-2014 Yamaha Raptor 700

PARTS LIST

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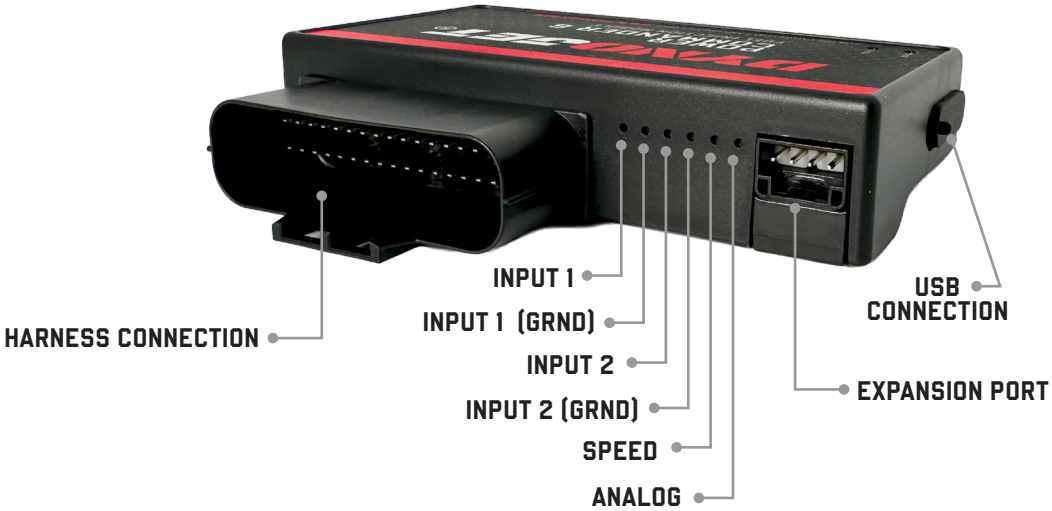
1	INSTALLATION GUIDE	2	VELCRO STRIPS
1	USB CABLE	1	ALCOHOL SWAB
2	DYNOJET DECALS		

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

IPC6-22046.02

INPUT ACCESSORY GUIDE—NEW PC6



INSTALLATION—HARNESS CONNECTION

Route the PC6 harness following the instructions in this guide. To complete installation, click the harness and module together and secure the PC6 in the location as described.

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.

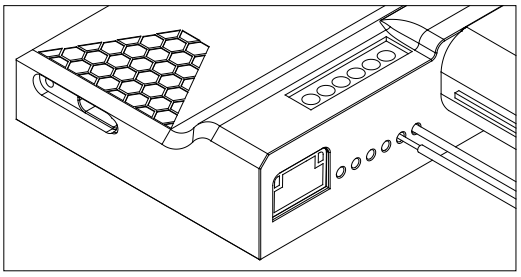
Analog This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the Power Core software.

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.

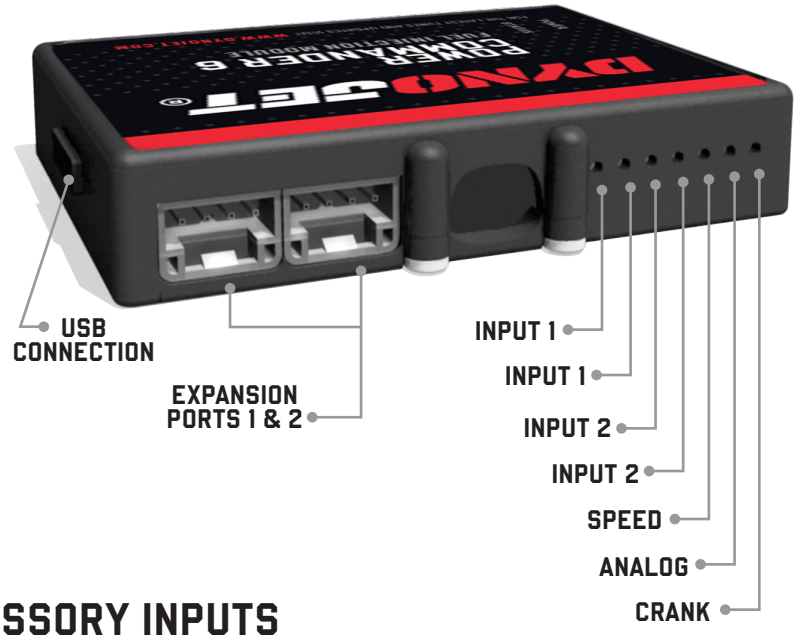
WIRE CONNECTIONS

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.



INPUT ACCESSORY GUIDE—ORIGINAL PC6



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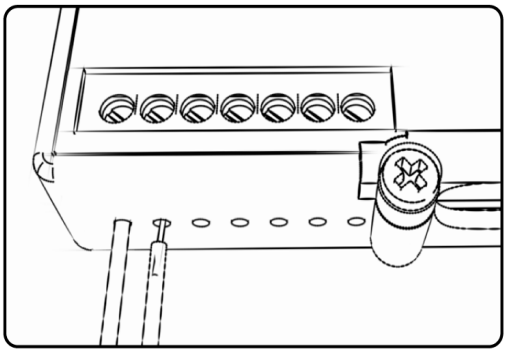
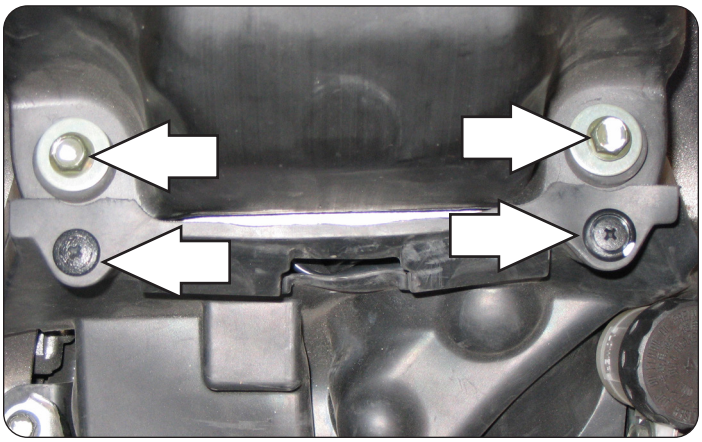


INSTALLING THE POWER COMMANDER 6

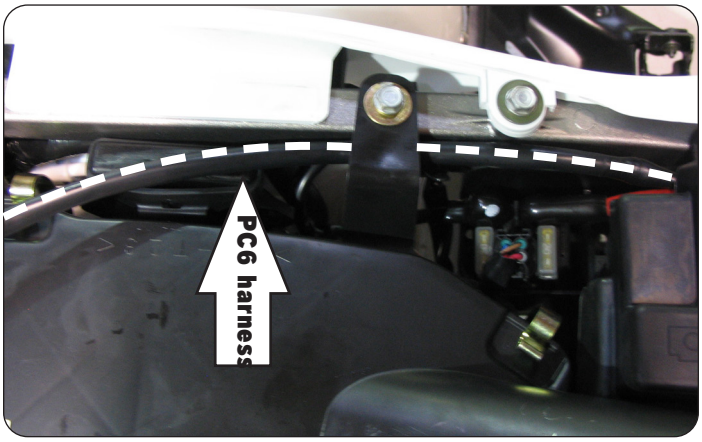


1 Remove seat.

2 Remove the fuel tank cover and the front shroud over the radiator.

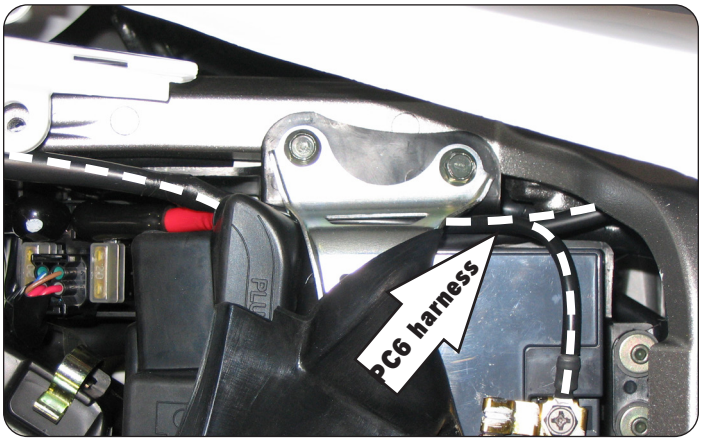
3 Remove the 4 fuel tank mounting bolts and 2 push pins (this image shows the rear 2 mounting bolts and the two push pins).

The fuel tank needs to be raised up to access the throttle body. You do NOT have to disconnect the wiring harness or the fuel line from the fuel tank.



4 Route the PC6 wiring harness from the rear of the quad to the throttle body going along the left hand side of the frame.

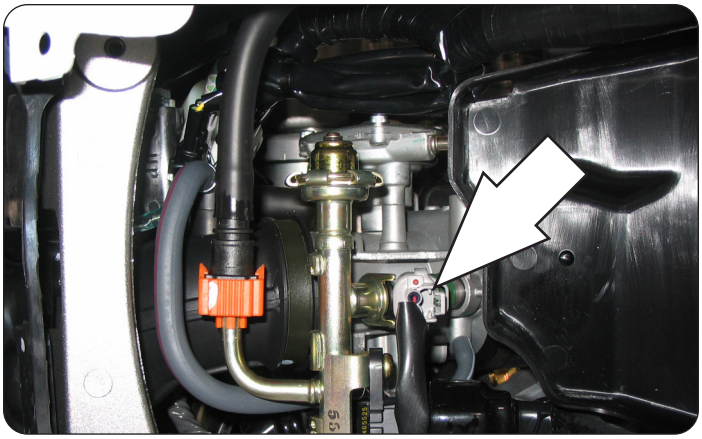
Route the harness behind the air box mounting tab.



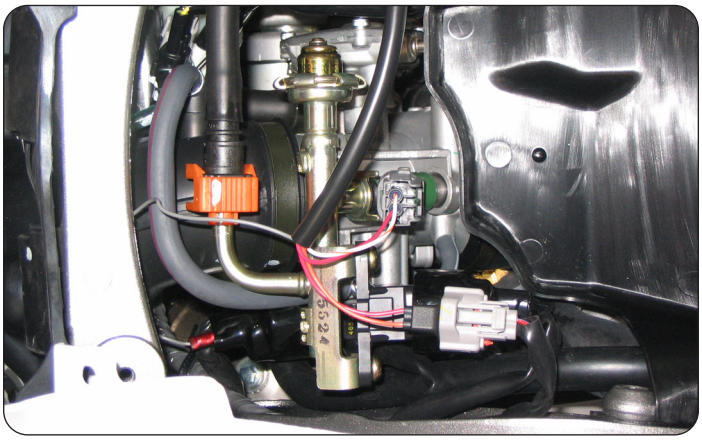
5 Route the PC6 wiring harness between the battery and the battery bracket. Continue routing the PC6 harness underneath the frame and go to the throttle body.

6 Attach the ground wire of the PC6 to the negative side of the battery

7 Unplug the stock wiring harness from the fuel injector.



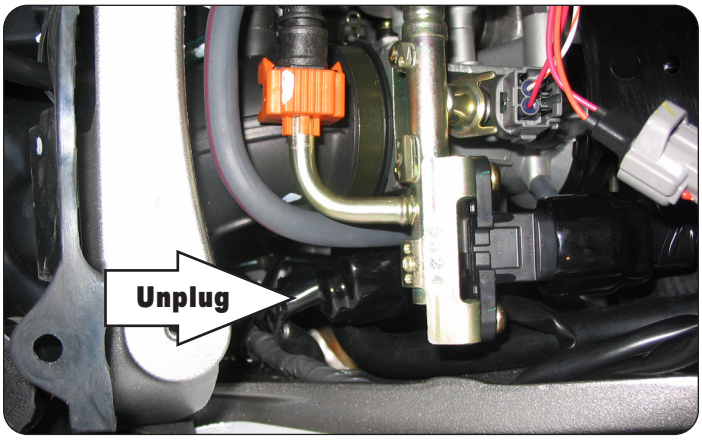
8 Plug the PC6 wiring harness in-line of the fuel injector and stock wiring harness.



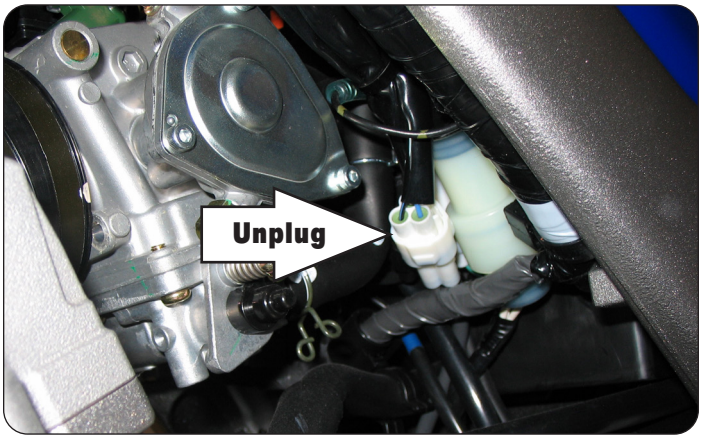
9 Unplug the Throttle Position Sensor connector from the right hand side of the throttle body.

This connector is covered with a BLACK rubber boot.

There is the same style electrical connector attached to a sensor secured to the fuel rail. Do NOT connect the PCV in-line with the sensor on the fuel rail.



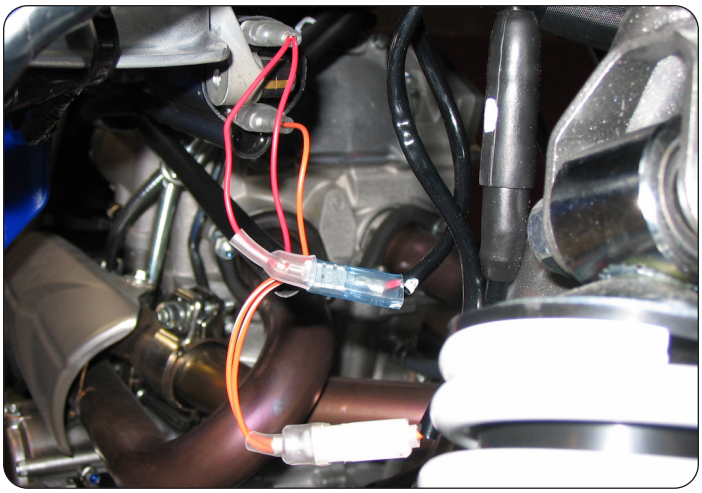
10 Connect the PC6 wiring harness in-line of the stock TPS and wiring harness.



11 Locate the crank pickup coil connector. This connector is located on the left hand side of the ATV near the throttle body.

12 Unplug the crank connector.

13 Plug the connectors from the PC6 in-line of the stock wiring harness and crank connector.



14 Locate the ignition coil on the right hand side. Plug the PC6 in-line of the stock wiring harness and coil.

Plug the RED/WHITE colored wires of the PC6 harness in-line of the stock RED/BLACK wire and the coil.

Plug the GREEN colored wires of the PC6 harness in-line of the stock ORANGE wire and the coil.

15 Mount the PC6 into the tail section using the supplied Velcro.

Use the supplied alcohol swab to clean both surfaces before applying the Velcro.

16 Mount the fuel tank back into place.

17 Make sure the wiring harness is routed in a manner that it will not get damaged by any hot or moving parts.

18 Reassemble the ATV.

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TRUTH IN PERFORMANCE

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