POWER COMMANDER 6

Installation Guide for: PC6-22062

Model Coverage: 2006-2007 Yamaha R6

PARTS LIST

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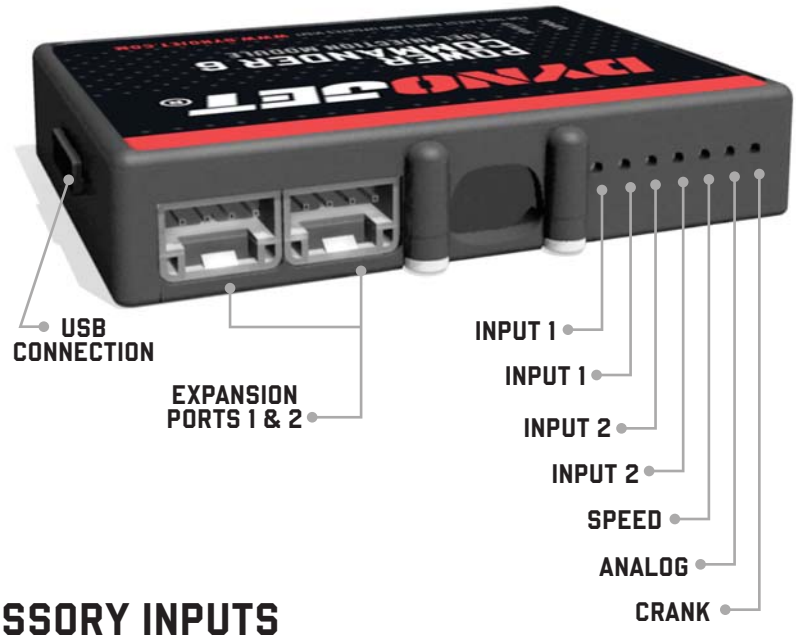
PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION.
THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION.

IPC6-22062.01

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 quick shifter.

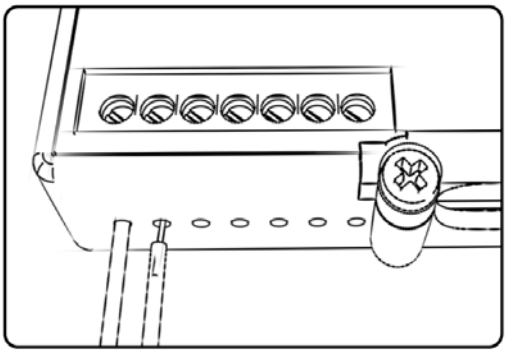
Analog This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the Power Core software.

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.

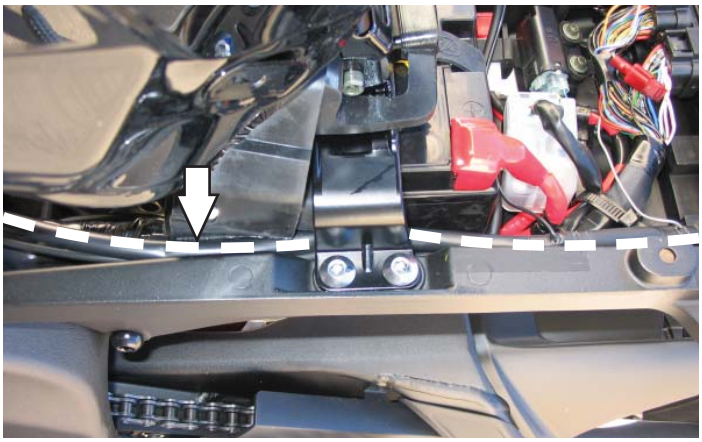
WIRE CONNECTIONS

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



1 Remove the main seat.

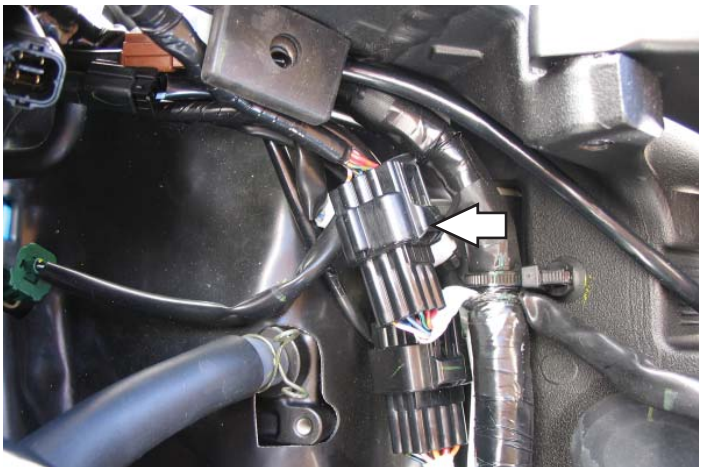
2 Prop the front of the fuel tank in the up position.

3 Route the PC6 harness down the left hand side of the bike.

4 Loosen the bolts securing the fuel tank bracket to allow room for the PC6 harness to fit underneath.

Tighten these bolts once the installation is complete.

5 Route the PC6 harness underneath the fuel tank bracket as shown.

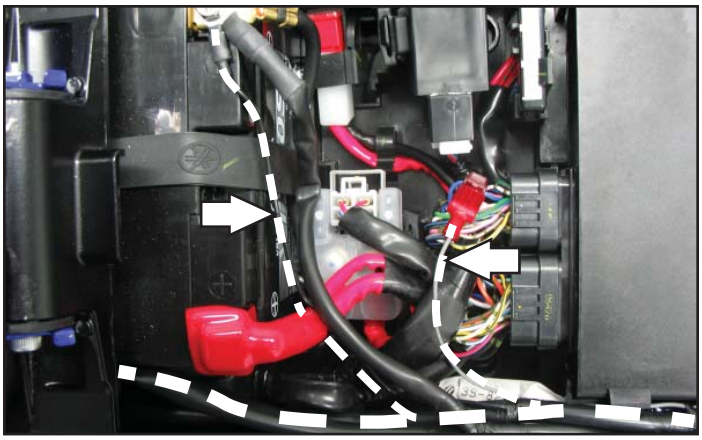


6 Unplug the BLACK 9-pin connector from the throttle bodies to the main wiring harness as shown.

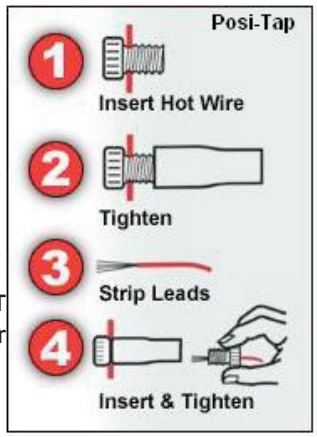
7 Attach the connectors from the PC6 to the stock connector as shown.

Verify these connectors do not interfere with the fuel line when the fuel tank is installed back into position.

8 Attach the ground wire from the PC6 to the negative (-) terminal of the bike's battery as shown.

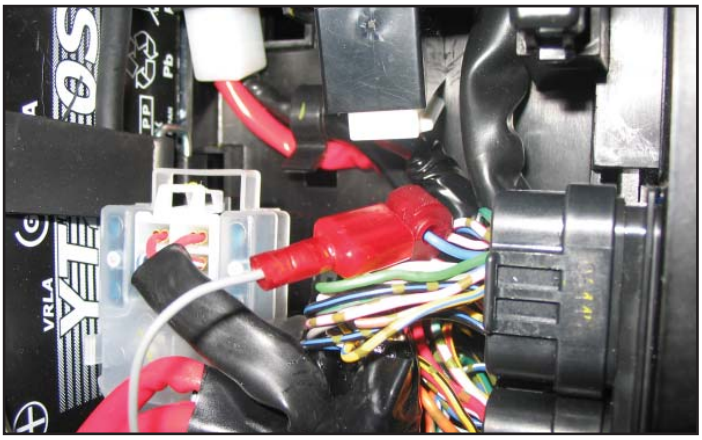


9 Using the supplied posi-tap, attach the GREY wire of the PC6 to the BLUE wire on the ECU.



This is pin #5 on the smaller ECU connector. The pin locations are numbered on the back of this connector for reference.

The wire tap shown is NOT a posi-tap. This is an older crimp-on style wire tap.



10 Using the supplied Velcro, secure the PC6 in the tail section of the bike as shown.

It is recommended to route the PC6 harness underneath the sub-frame bracket.

Make sure to clean both surfaces with the supplied alcohol swab before attaching.

11 Reinstall the main seat and the passenger seat.

Download the latest map files from our web site at dynojet.com/tunes.

Optional inputs:
Temperature input - Temperature sensor is located on back of cylinder near #3 throttle body. GREEN/WHITE wire to ECU. Pin #25 on small ECU connector.
12v source for Autotune - BLUE/RED wire of tail light connector.
Speed input - Top of engine case on left hand side. PINK wire on sensor side - WHITE/YELLOW wire on ECU side.

Tuning Notes:
This bike uses a fly-by wire system; conventional tuning can not be performed for all RPM and throttle ranges.

The GREY wire from the PC6 is attached to the throttle blade angle sensor of the throttle bodies which is NOT directly correlated to the throttle grip position. Because of this when setting the throttle position in the PC6 software we recommend on resetting only the closed position after the bike has completely warmed up. Use the arrow key (<) next to the MINIMUM VOLTAGE setting to perform this step and then click OK. Do not try to set the MAXIMUM VOLTAGE setting unless you are on a dyno and above 9000 RPM.

You will notice that in the maps there are not detailed values below 9000 RPM at 100% throttle and below 7500 RPM at 60-80% throttle. This is because the throttle blades will not open more than 60% below this RPM range no matter how much throttle input is given. Therefore this area can not be tuned.

PUSH THE LIMIT

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