

[POWER COMMANDER V]

FUEL AND IGNITION

2009-2014 Yamaha YFZ450 R/X

Installation Instructions



PARTS LIST

- 1 Power Commander
- 1 USB Cable
- 1 Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 2 Velcro strips
- 1 Alcohol swab

THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!

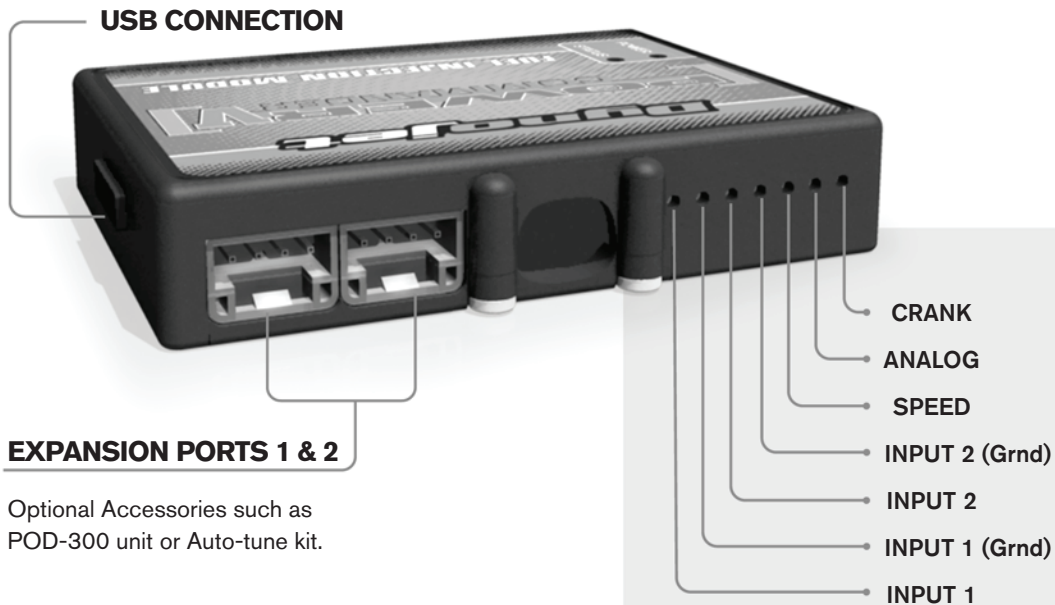
THE LATEST POWER COMMANDER SOFTWARE AND MAP FILES CAN BE DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 www.powercommander.com

POWER COMMANDER V INPUT ACCESSORY GUIDE

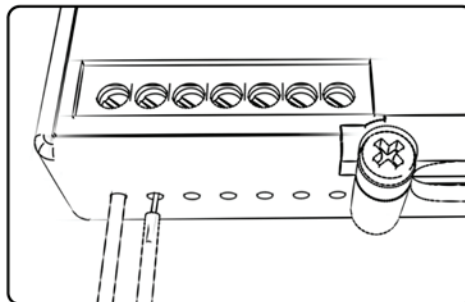


Optional Accessories such as
POD-300 unit or Auto-tune kit.

Wire connections:

To input wires into the PCV 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 PCV 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.



ACCESSORY INPUTS

Map -

(Input 1 or 2) The PCV 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. When using the Autotune kit one position will hold a base map and the other position will let you activate the learning mode. When the switch is "CLOSED" Autotune will be activated. (Set to Switch Input #1 by default.)

Shifter-

(Input 1 or 2) These inputs are for use with the Dynojet quickshifter. Insert the wires from the Dynojet quickshifter into the SHIFTER inputs. The polarity of the wires is not important. (Set to Switch Input #2 by default.)

Speed-

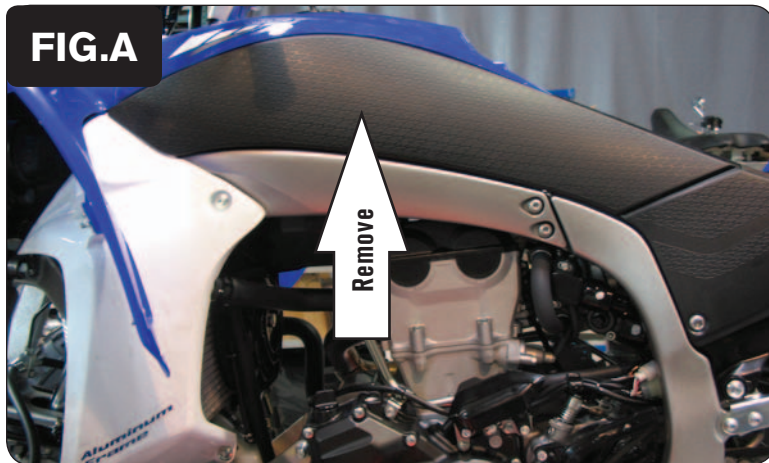
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent kill times when using a quickshifter.

Analog-

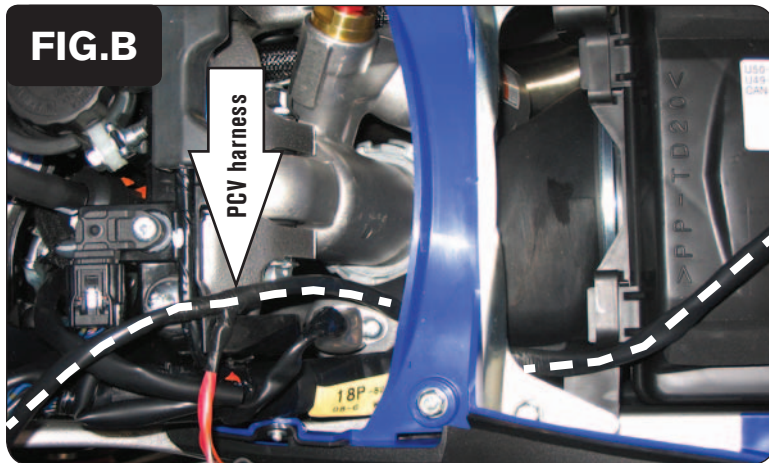
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

Crank-

Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



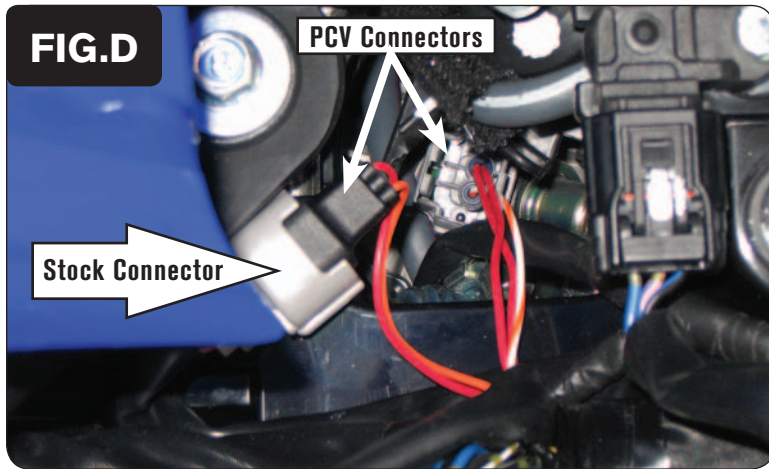
- 1 Remove seat.
- 2 Remove the side covers (Fig. A).
- 3 Remove the fuel tank.



- 4 Lay the PCV in the tail section of the quad temporarily.
- 5 Route the PCV wiring harness from the rear of the quad to the throttle body going along the left hand side of the frame.
Route the harness underneath the frame crossover (Fig. B).



- 6 Unplug the stock wiring harness from the injector (Fig. C).



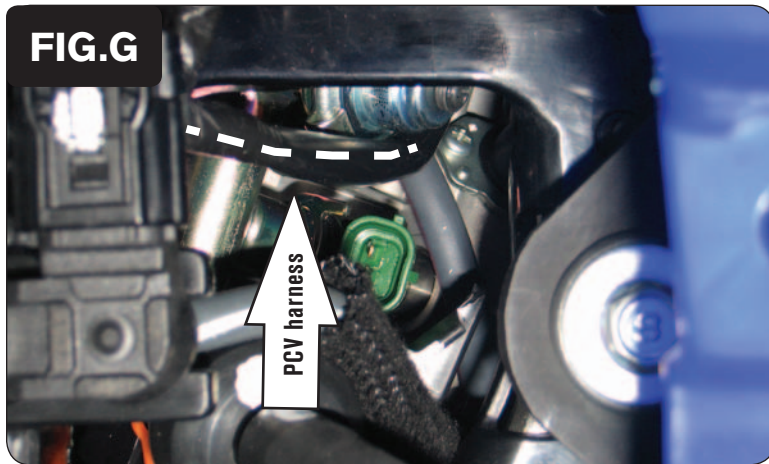
- 7 Plug the PCV wiring harness in-line with the fuel injector and stock wiring harness (Fig. D).



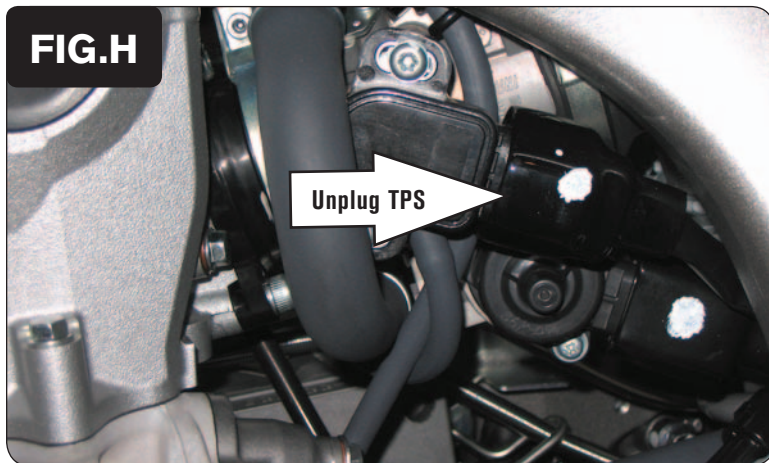
- 8 Route the branch of the wiring harness with RED and GREEN colored wires to the right side of the quad, across the top of the rear shock, and under the rubber flap, where the ignition coil is located (Fig. E).



- 9 Unplug the RED/BLACK wire on the ignition coil.
- 10 Connect the pair of RED colored wires of the PCV harness in-line with the coil and the RED/BLACK wire.
- 11 Unplug the ORANGE wire on the ignition coil.
- 12 Connect the pair of GREEN colored wires of the PCV harness in-line with the coil and the ORANGE wire (Fig. F).



- 13 Route the set of 3 pin connectors, and the set of 2 pin connectors, of the PCV harness down the left side of the throttle body (Fig. G).



- 14 Unplug the Throttle Position Sensor connector from the left hand side of the throttle body (Fig. H).

This connector is covered with a BLACK rubber boot.



- 15 Connect the set of 3 pin connectors of the PCV in-line of the TPS and the stock wiring harness (Fig. I).

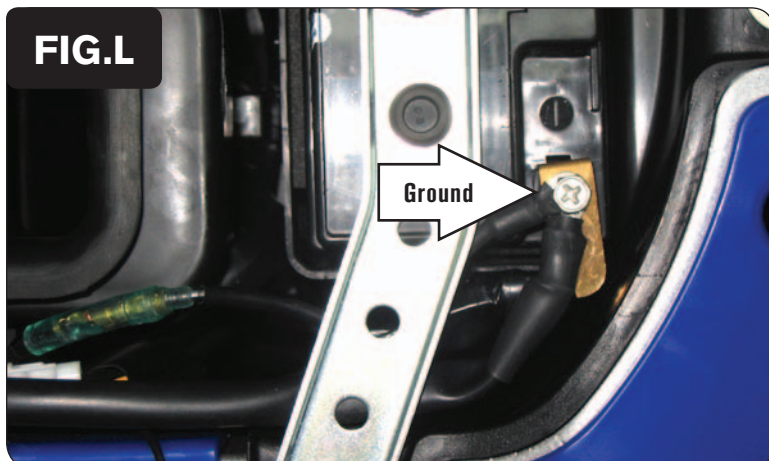


- 16 Unplug the Crank Position Sensor connectors on the left side of the quad behind the frame rail (Fig J).

These are the WHITE 2pin connectors.



- 17 Connect the set of 2 pin connectors of the PCV in-line of the stock Crank Position Sensor connectors (Fig. K).



- 18 Attach the ground wire of the PCV with the ring lug to the negative side of the battery (Fig. L).
- 19 Mount the PCV in the pocket of the rear fender on the left side using the supplied velcro. Use the supplied alcohol swab to clean the surface before attaching the unit.
- 20 Mount the fuel tank back into place.
- 21 Make sure the wiring harness is routed in a manner that it is free from getting damaged by any hot or moving parts.
- 22 Reinstall the sidecovers and the seat.