

# [POWER COMMANDER V]

## FUEL & IGNITION

**2007-2014 Yamaha XVS1300**

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
- 1 O2 Optimizer

**THE IGNITION MUST BE TURNED  
OFF BEFORE INSTALLATION!**

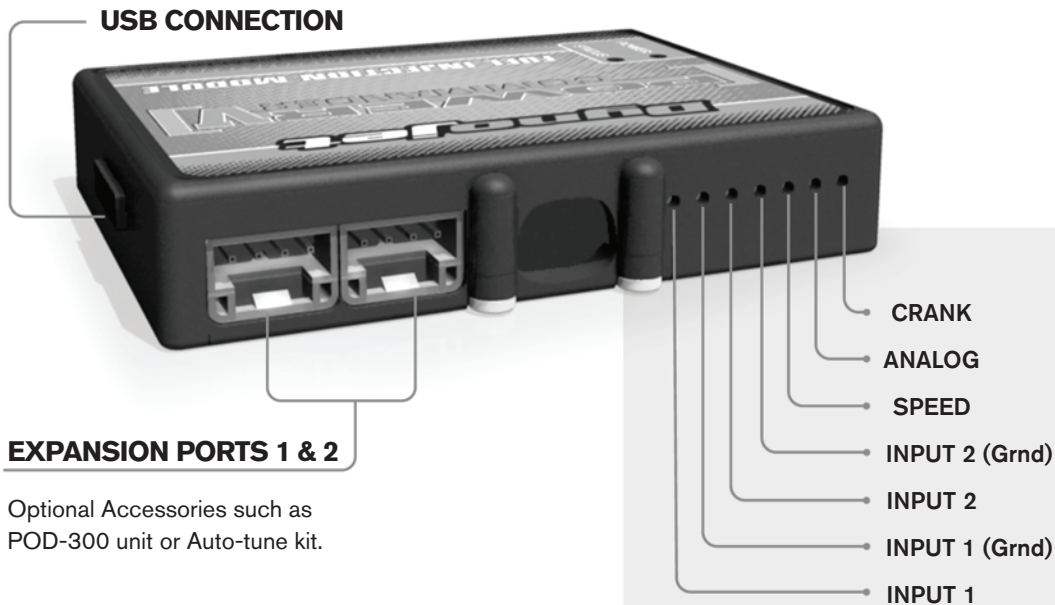
THE LATEST POWER COMMANDER  
SOFTWARE AND MAP FILES CAN BE  
DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**

**Dynojet**

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 [www.powercommander.com](http://www.powercommander.com)

# POWER COMMANDER V INPUT ACCESSORY GUIDE



## 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-

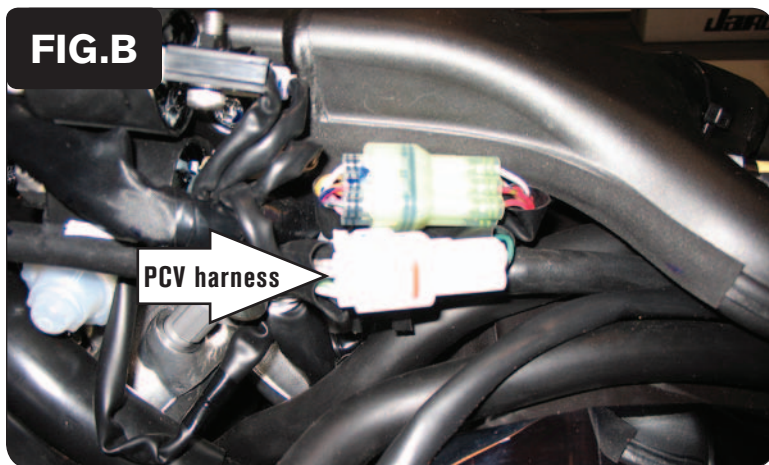
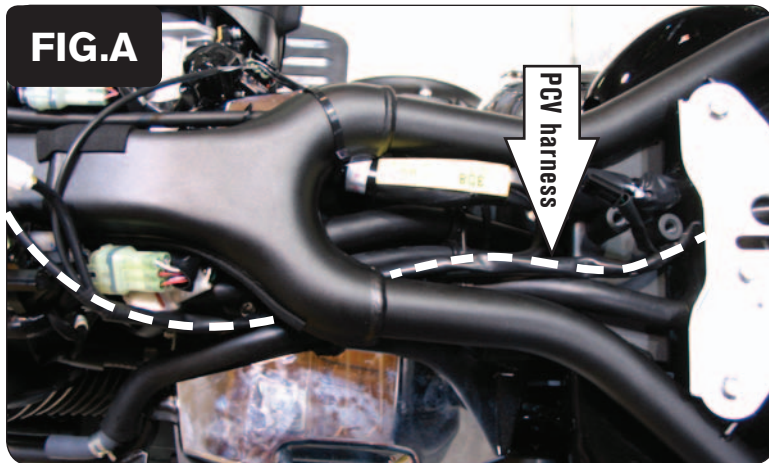
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

### Analog-

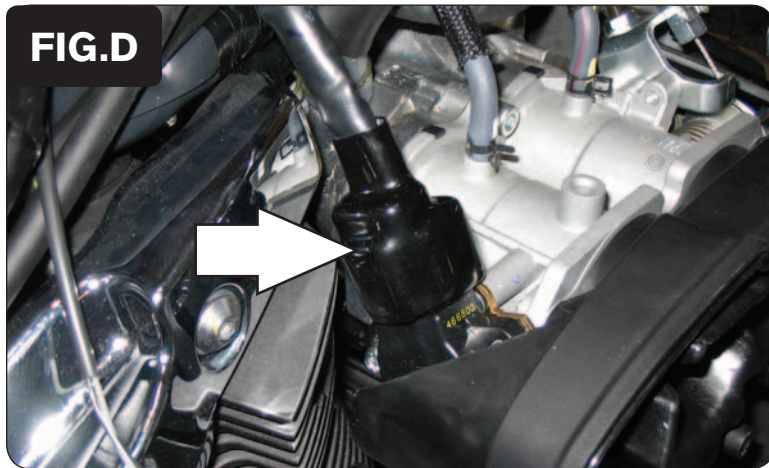
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

### 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.

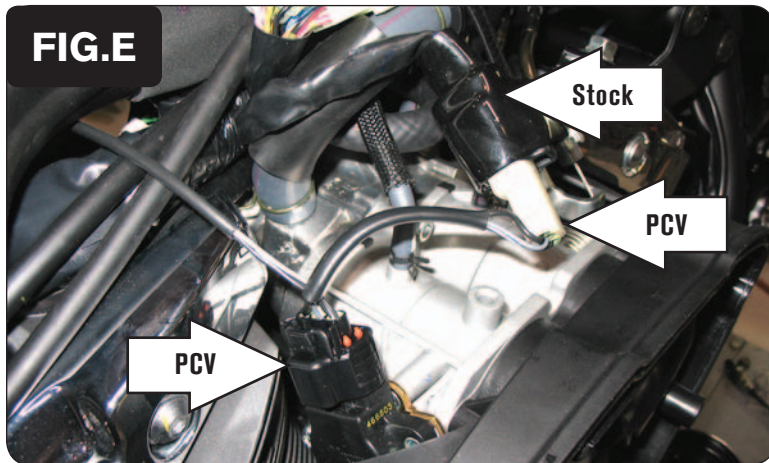


- 1 Remove the seat.
- 2 Remove the fuel tank.
- 3 Lay the PCV near the tool kit temporarily.
- 4 Route the PCV harness under the seat bracket and go towards the front of the bike (Fig. A).
- 5 Locate the WHITE 4 pin connector from the throttle bodies (Fig. B).  
*This connector is located on the left hand side of the frame above the rear cylinder.*
- 6 Unplug this connector.
- 7 Plug the mating connectors from the PCV harness in-line of the stock wiring harness (Fig. C).

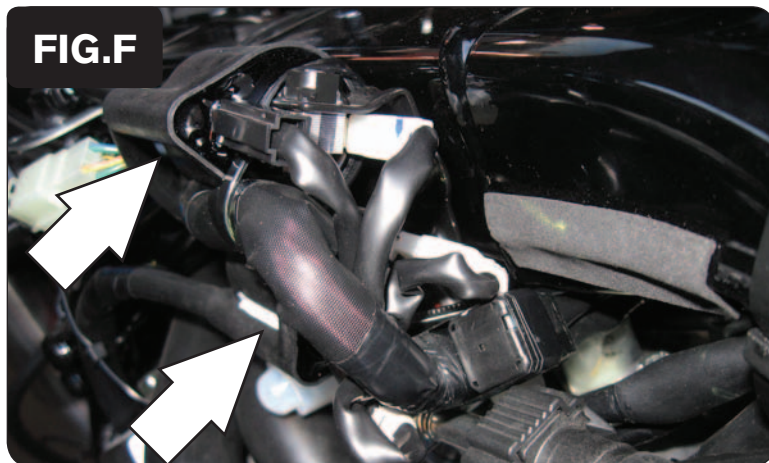


- 8 Route the 3 pin connectors from the PCV harness to the right hand side of the bike going underneath the frame.
- 9 Locate the stock Throttle Position Sensor connector (Fig. D). Unplug this connector.

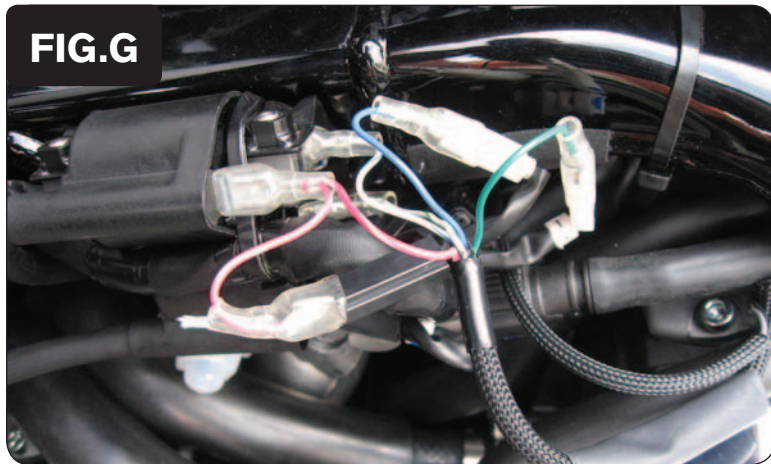
*This connector is located on the right side of the bike behind the air box.*



- 10 Plug the PCV wiring harness in-line of the TPS and stock wiring harness (Fig. E).



- 11 Locate the ignition coils on the left side of the frame underneath the fuel tank (Fig. F).

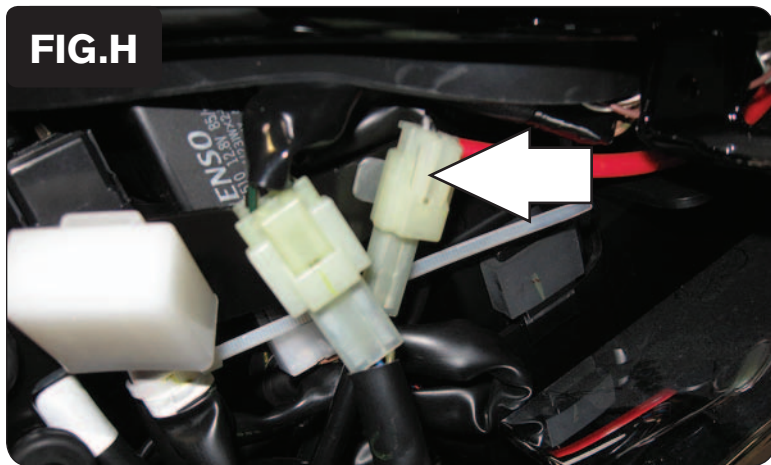


- 12 Connect the PCV in-line of the stock wiring harness and each ignition coil (Fig. G).

PCV RED wire goes to stock BLACK/RED

PCV GREEN wires go to stock ORANGE

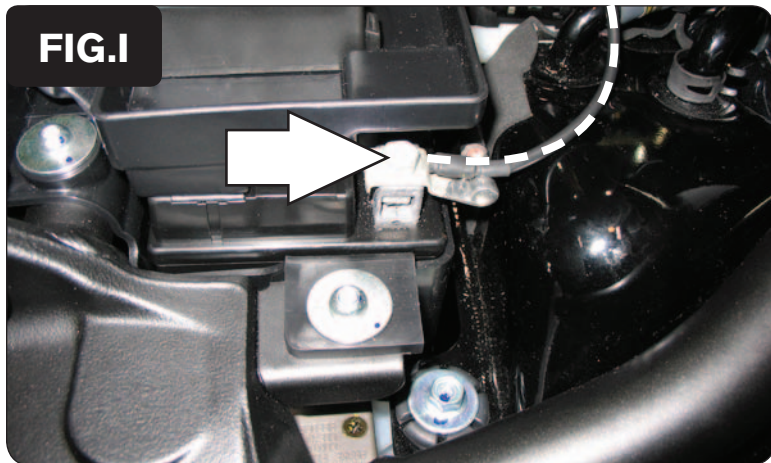
PCV BLUE wires go to stock GREY/RED



- 13 Locate the stock Crank Sensor Position connector (Fig. H).

*This is a CLEAR 2 pin connector located under the left hand side cover.*

- 14 Plug the connectors from the PCV in-line of this connection.



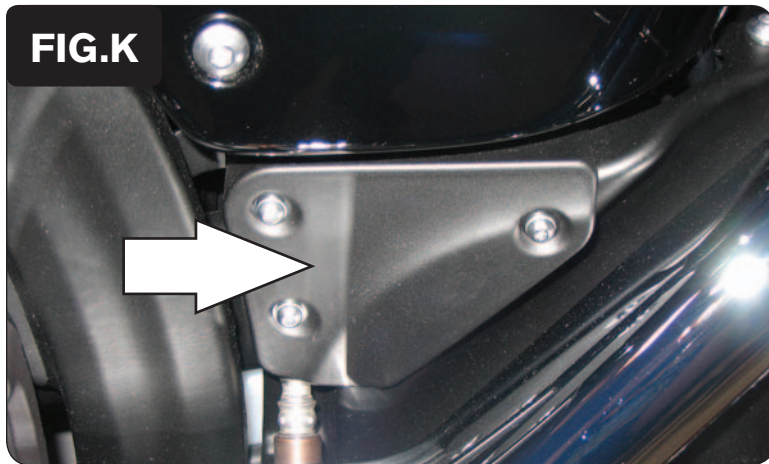
- 15 Attach the ground wire from the PCV to the negative side of the battery (Fig. I).



**FIG. J**

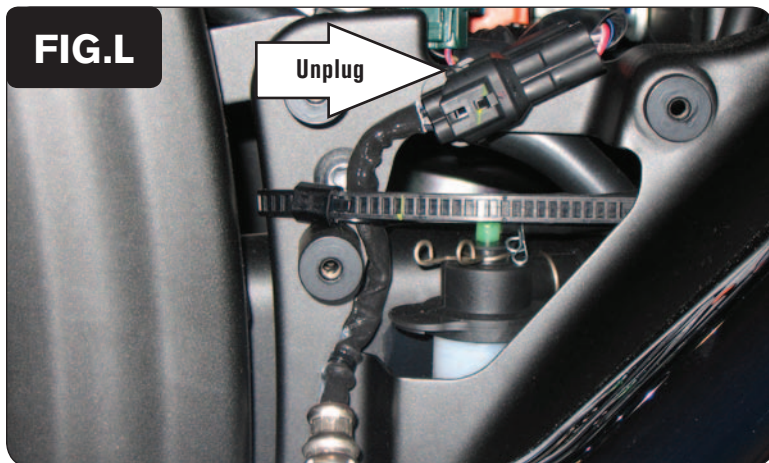
- 16 Move the tool kit so that it lays against the rear fender.
- 17 Install the PCV in the tool tray. Use the stock band to secure the PCV in place (Fig. J).

You can secure the module here with the supplied Velcro strips, if necessary. If so, use the supplied alcohol swab to clean the surface prior to applying the Velcro.



**FIG. K**

- 18 Remove the cover on the right hand side of the bike (Fig. K).



**FIG. L**

- 19 Unplug the stock O2 sensor from the main wiring harness (Fig. L).
- 20 Plug the Dynojet O2 Optimizer into the stock wiring harness.

*The stock O2 sensor can be left in the exhaust or removed and a bolt installed to plug the hole.*

- 21 Reinstall the cover
- 22 Reinstall the fuel tank and seat.