

# [POWER COMMANDER V]

**2008-2014 Suzuki Hayabusa**

**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!**

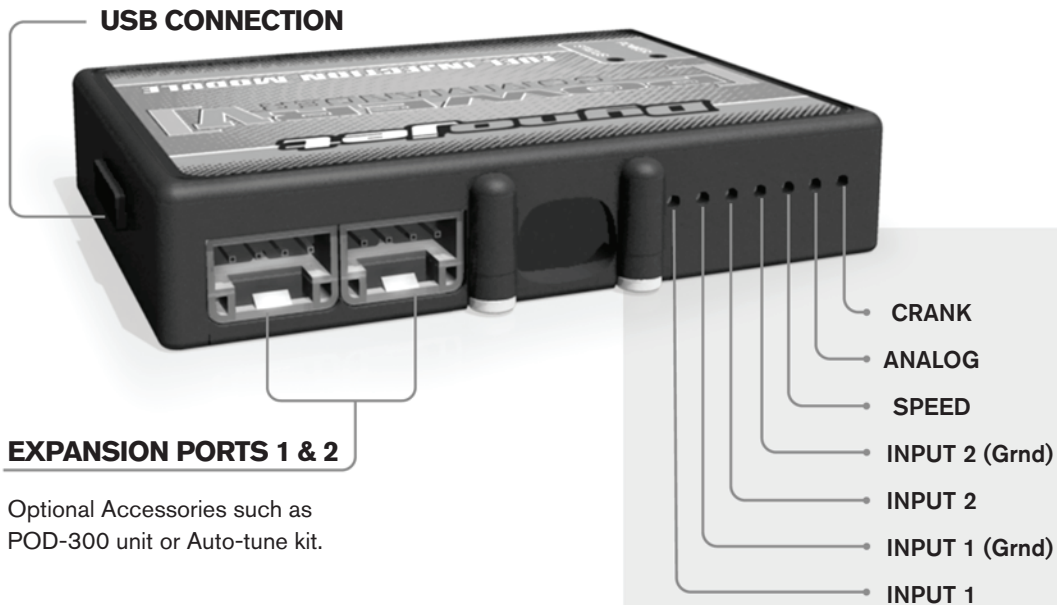
THE LATEST POWER COMMANDER  
SOFTWARE AND MAP FILES CAN BE  
DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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-

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-

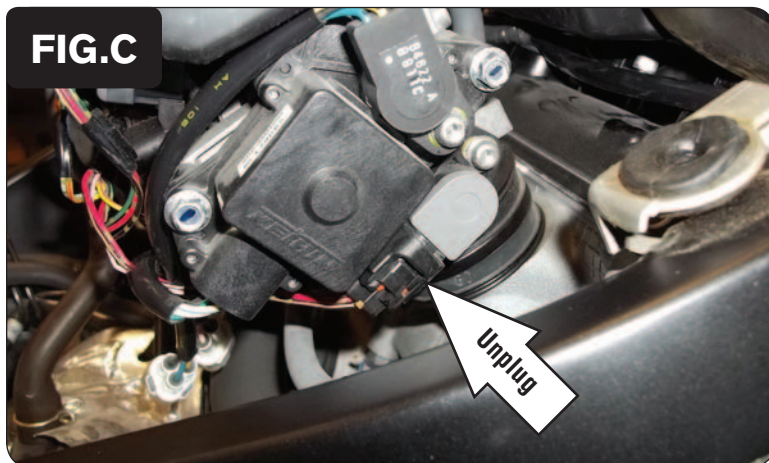
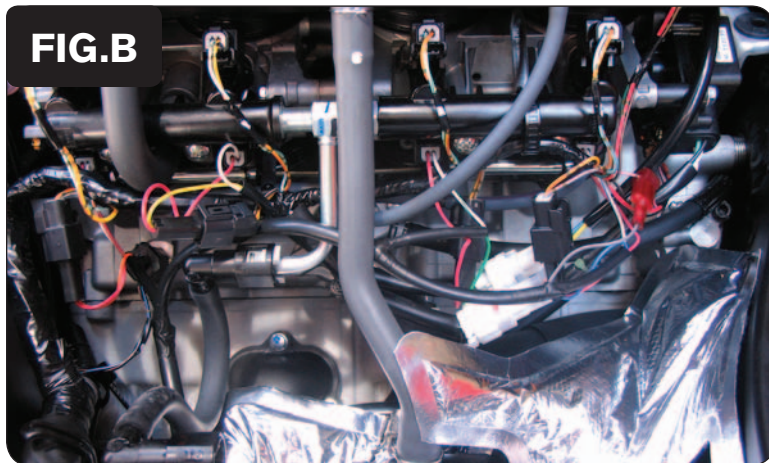
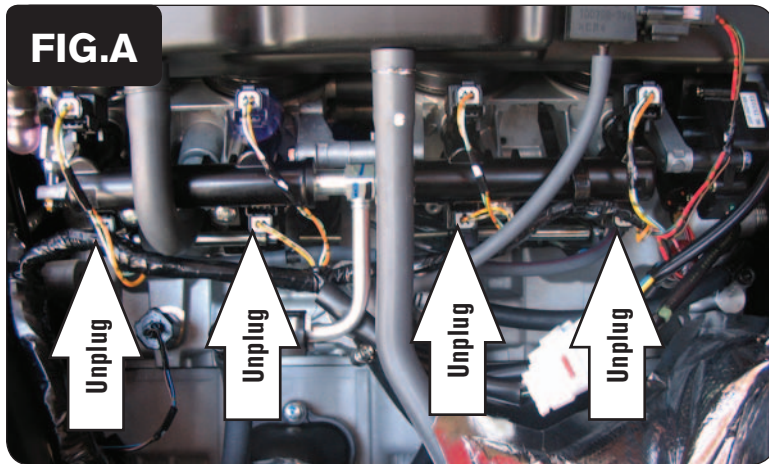
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

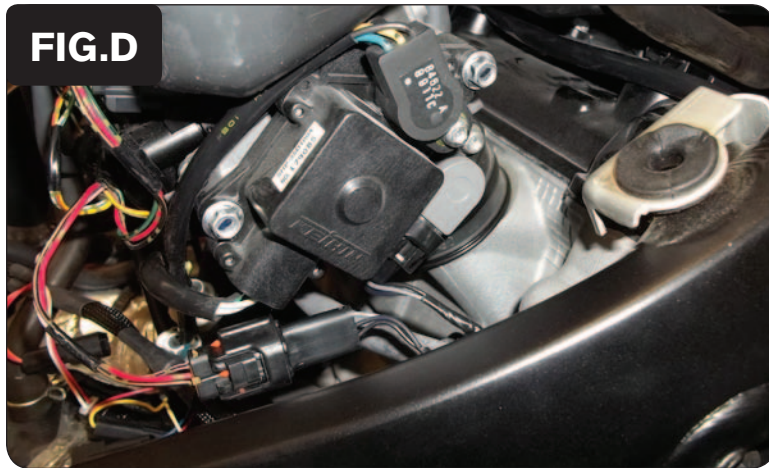
### Crank-

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.

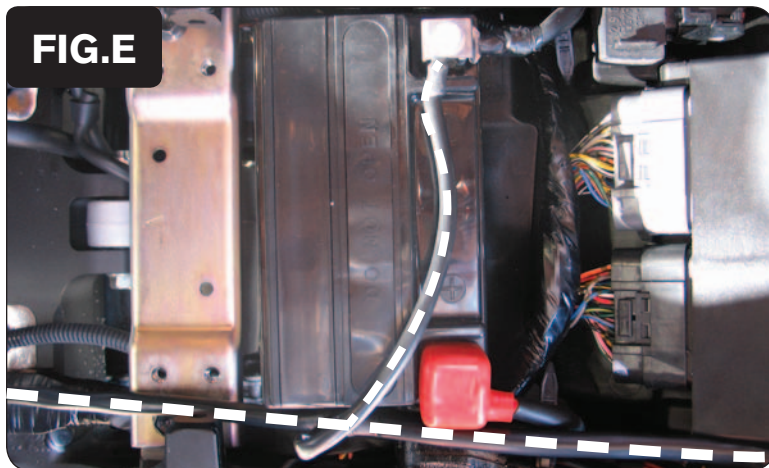


- 1 Remove the main seat and the passenger seat.
- 2 Hold the front of the fuel tank up using the prop rod located in the trunk area.
- 3 Disconnect the main wiring harness from each of the LOWER Fuel Injectors (Fig. A).
- 4 Lay the PCV in the tail section and route the PCV harness down the left hand side of the bike towards the throttle bodies.
- 5 Plug the PCV wiring harness in-line of the stock wiring harness and the LOWER Fuel Injectors (Fig. B).
  - Cylinder 1 - ORANGE
  - Cylinder 2 - YELLOW
  - Cylinder 3 - GREEN
  - Cylinder 4 - BLUE
- 6 Locate the Throttle Position Sensor connector on the right hand side of the throttle body.

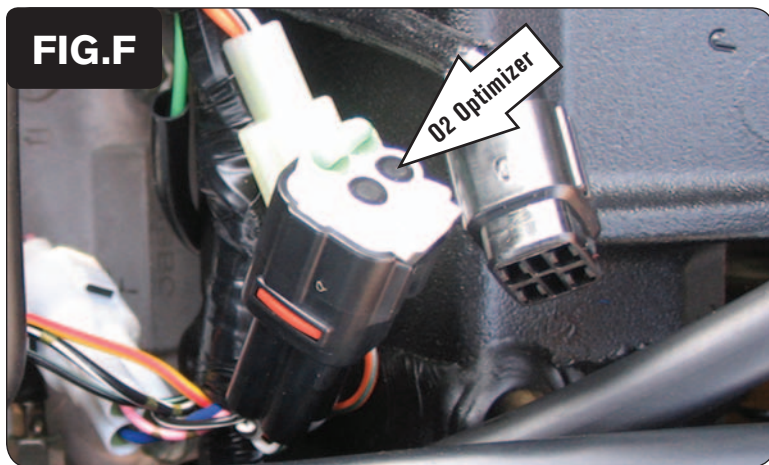
*This is a BLACK 3-pin connector with RED, PINK/BLACK, and BLACK/BROWN wires going to it.*
- 7 Unplug the stock wiring harness from the TPS (Fig. C).



- 8 Plug the pair of 3-pin connectors of the PCV wiring harness in-line of the bike's TPS and the stock wiring harness (Fig. D).



- 9 Attach the ground wire from the PCV with the small ring lug to the negative (-) terminal of the bike's battery (Fig. E).



- 10 Locate and unplug the stock O2 sensor connection.  
*This connection is behind the right hand side fairing. The fairing needs to be pulled away from the frame to gain access but does not need to be totally removed.*
- 11 Plug the Dynojet O2 Optimizer into the stock wiring harness (Fig. F).  
*The stock O2 sensor will not be connected to anything. It can be removed from the exhasut if desired and if you have a way to plug the hole in the exhaust.*



- 12 Install the PCV in the tail section using the supplied Velcro (Fig. G).

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

- 13 Bolt fuel tank back into place. Reinstall the seats and any bodywork that was loosened during the process.

#### **Optional inputs:**

**Speed** - BLACK wire of BLACK 3-pin connector from speed sensor on the front sprocket cover

**Engine temp** - BLACK/BLUE wire on the engine temperature sensor at the back of cylinder #1 below the throttle body

**12v source for Auto-tune** - BROWN wire of 6-pin taillight connector