

# [POWER COMMANDER V]

**1999-2001 Harley Davidson  
Touring Models**

**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
- 2 Zip ties

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

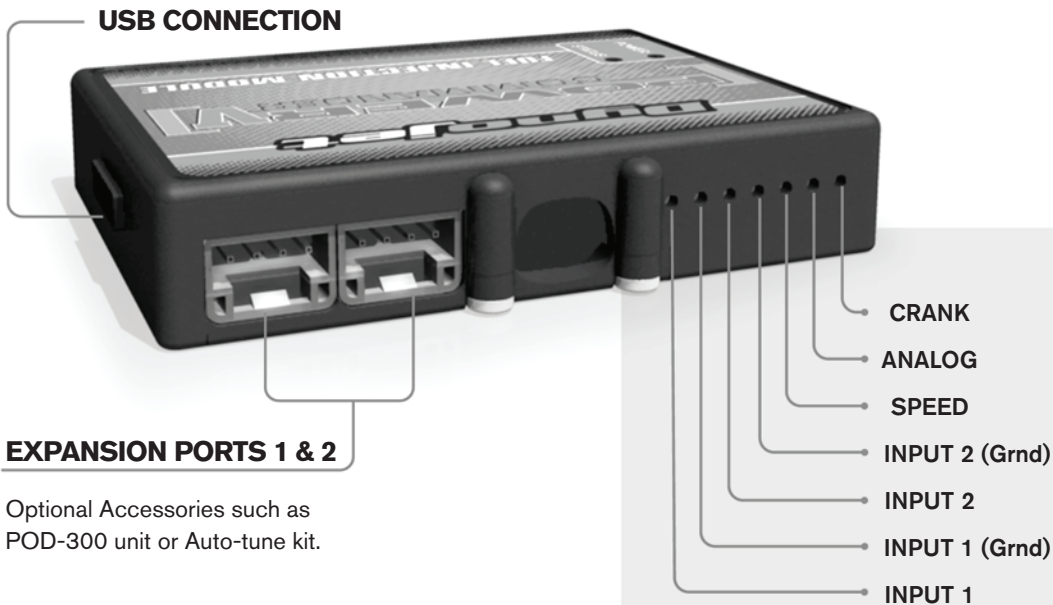
YOU CAN ALSO DOWNLOAD THE  
POWER COMMANDER SOFTWARE AND  
LATEST MAPS FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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



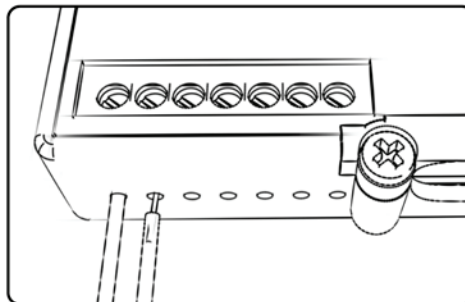
## EXPANSION PORTS 1 & 2

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) Used for clutch-less full throttle upshifts. Insert the wires from the Dynojet quickshifter into either INPUT 1 or INPUT 2. The polarity of the wires is not important. (Set to Switch Input #2 by default.)

### Speed-

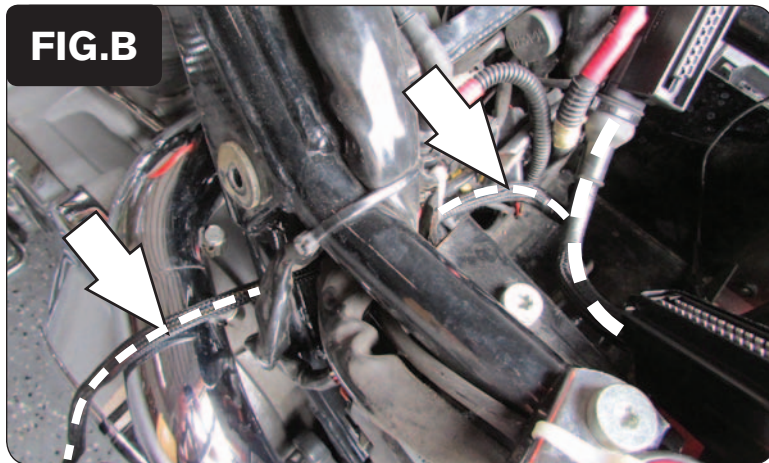
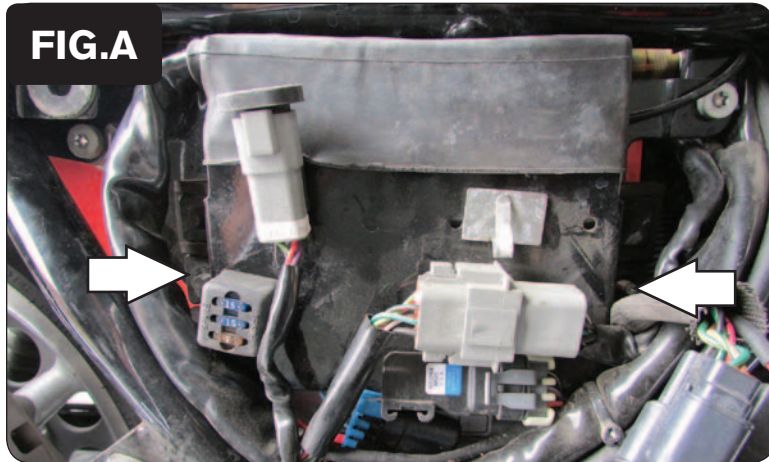
Not needed on Harley applications as the speed signal wire is built into the main wiring harness of the PCV.

### 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.

### Launch-

You can connect a wire to either input 1 or 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.

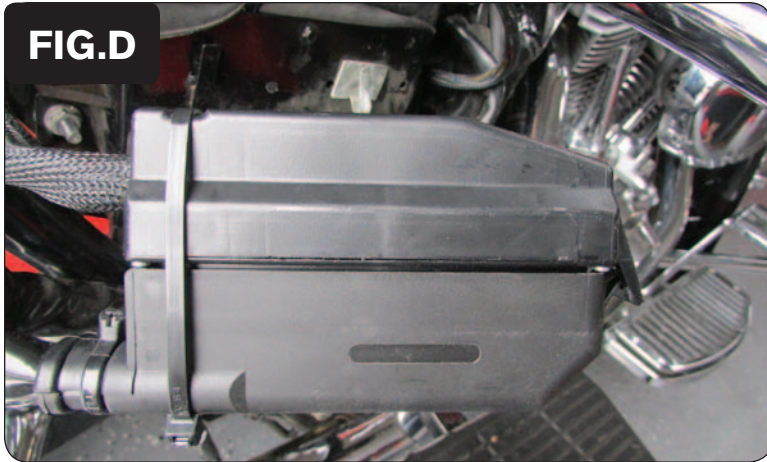


There are two methods of installation for the Power Commander.

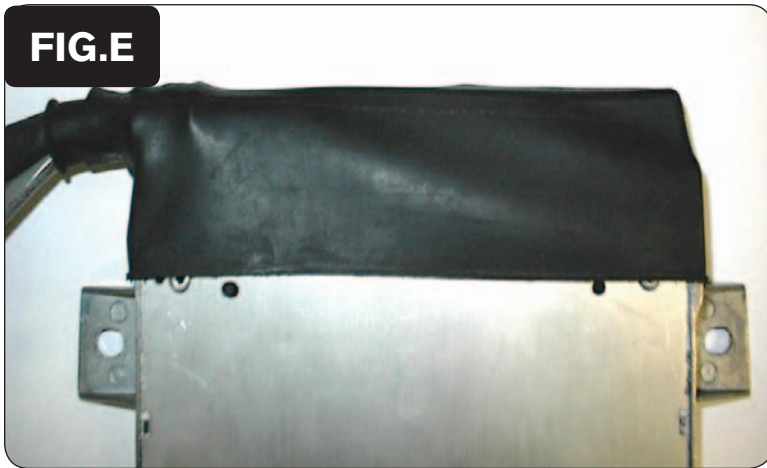
- The Standard install takes 30 minutes to accomplish, but the fit is better.
- The Quick install takes about 15 minutes. While this method is easier, it may allow wiring to be visible with certain aftermarket seat assemblies.

### **STANDARD INSTALLATION**

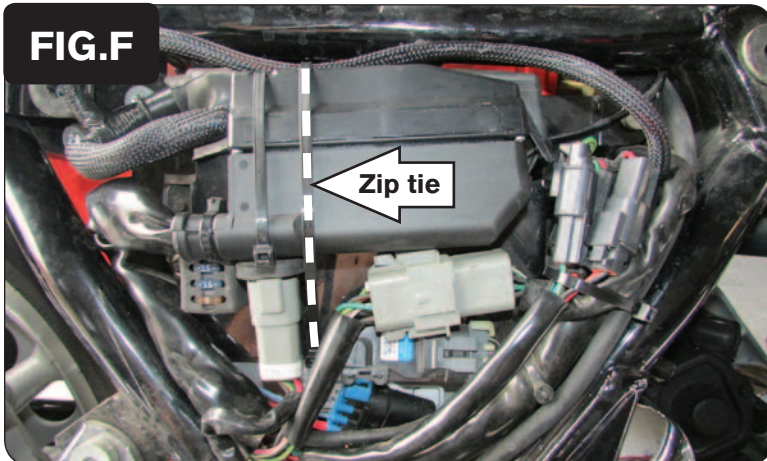
- 1 Remove the seat.
- 2 Remove saddlebags if installed.
- 3 Remove left and right side covers.
- 4 Remove the battery (negative terminal first).
- 5 Loosen the two 7/16 nuts that retain the ECM to the battery tray enough to pull the ECM away from the frame (Fig. A).
- 6 From the left side of the motorcycle route the PCV harness thru the opening and into the battery tray area (Fig. B).
- 7 Continue routing the PCV harness out the right side of the tray area (Fig. C).



- 8 Plug the PCV harness into the stock wiring harness (Fig. D).  
*Use the supplied zip tie to secure the two connectors together.*

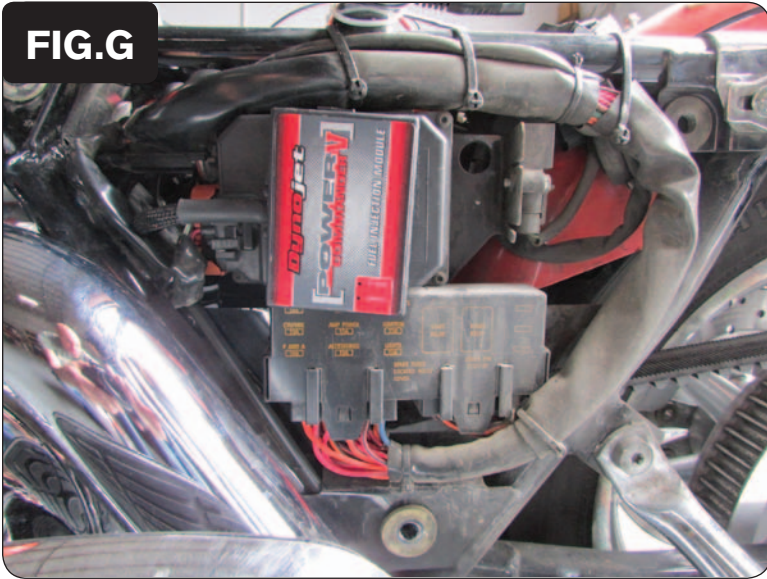


- 9 Disconnect the large connector from the ECU. Carefully remove the rubber dust shield.  
10 Install the dust shield onto the matching connector of the PCV (Fig. E).  
*Make sure the rubber boot is around the OUTSIDE of the ECU to keep water out of the connector.*  
11 Tighten the two 7/16" nuts to secure the ECU tray back into place.



- 12 Use the supplied zip tie to secure the set of connectors to the ECU tray (Fig. F).

**FIG.G**



- 13 Use the supplied velcro to secure the PCV under the left hand side cover (Fig G).

*Make sure to clean the surface with the alcohol swab before attaching.*

- 14 Install the battery, side covers and saddlebags.

### **QUICK INSTALLATION**

- 1 Remove the seat
- 2 Remove right hand side cover.
- 3 Loosen the two 7/16 nuts that retain the ECU (Fig. A)
- 4 Disconnect the large connector from the ECU. Remove the rubber dust shield and install on the male connector of the PCIII. Make sure the rubber boot is properly installed (Fig. D).
- 5 Connect the PCIII male connector to the stock ECU.
- 6 Connect the female connector from the PCIII to the stock wiring harness (Fig.E). Use the rubber strap to secure the connectors to each other.
- 7 Tighten ECU retaining nuts.
- 8 Attach PCV to the battery tray or slide the unit under the battery tray.
- 9 Reinstall side cover and seat.