

# [POWER COMMANDER V]

## FUEL AND IGNITION

### 2012 Polaris Sportsman 850

#### 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!**

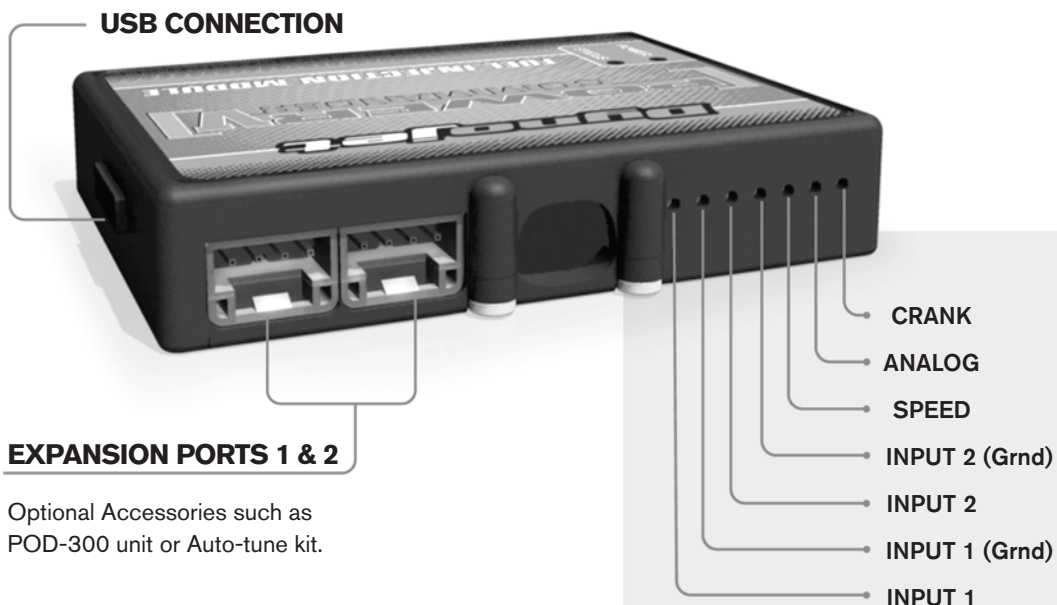
THE LATEST POWER COMMANDER  
SOFTWARE AND MAP FILES CAN BE  
DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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

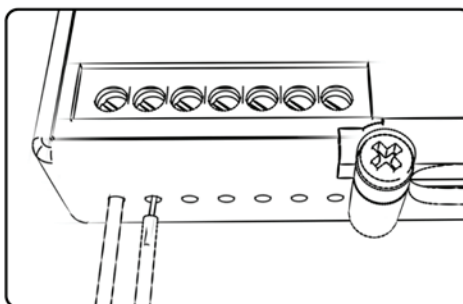


Optional Accessories such as  
POD-300 unit or Auto-tune kit.

## 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.

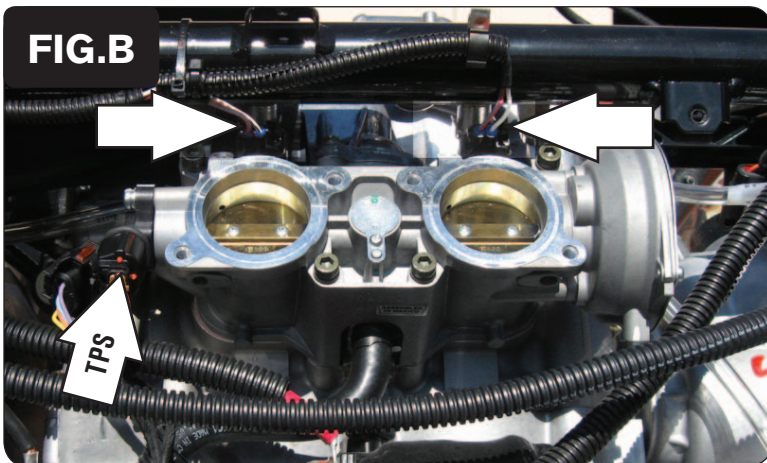
### Crank-

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.

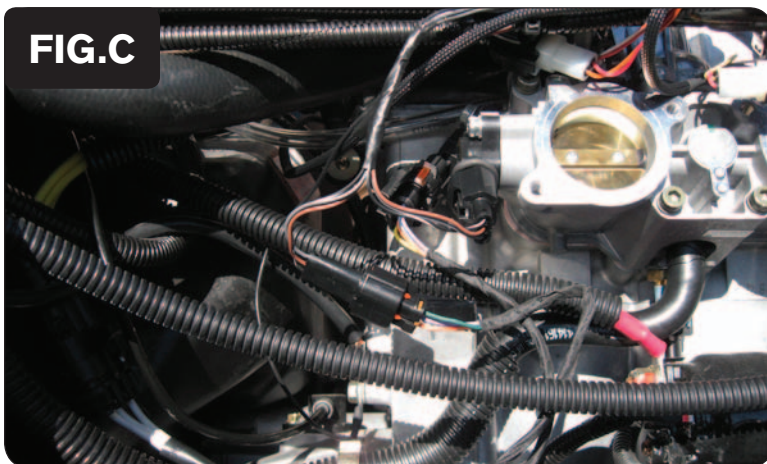


- 1 Remove the seat and both side panels.
- 2 Remove the air box.

*Remove the bolts that hold the airbox to the throttle body and then the 2 bolts at the rear of the airbox (1 bolt is shown in Figure A) and slide rearwards.*

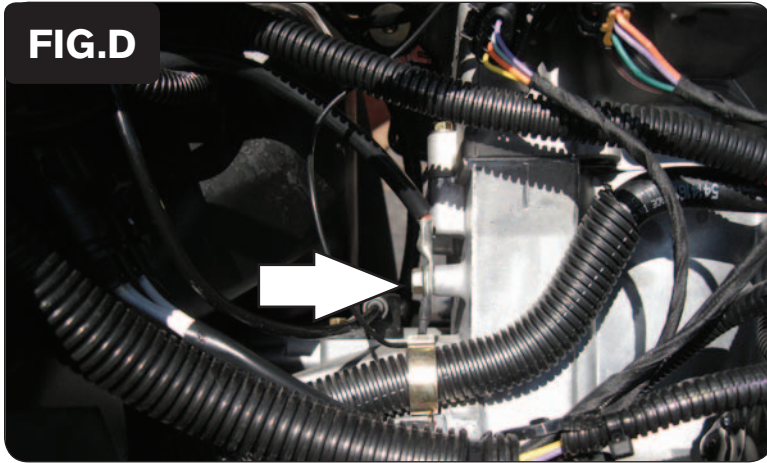


- 3 Unplug the stock wiring harness from each injector (Fig. B).
- 4 Unplug the stock wiring harness from the Throttle Position Sensor (Fig. B).



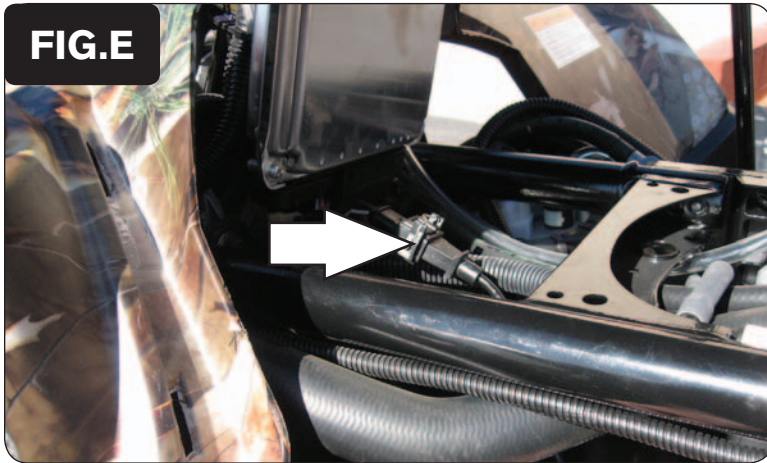
- 5 Plug the PCV harness in-line of the stock injectors and wiring harness (Fig. C).
- 6 Plug the PCV harness in-line of the stock TPS and wiring harness (Fig. C).

**FIG.D**



- 7 Attach the ground wire of the PCV to the stock ground location (Fig. D).  
*This is located on the front of the engine case on the left side.*

**FIG.E**



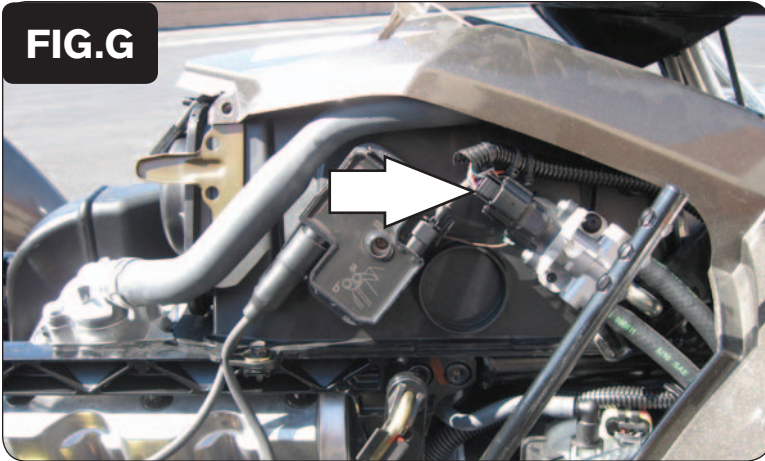
- 8 Unplug the 3-pin crank position connector (Fig. E).  
*This connector is located near the left frame rail under the air box.*

**FIG.F**



- 9 Plug the PCV connectors in-line of the stock crank position connectors (Fig. F).

**FIG.G**



- 10 Unplug the stock wiring harness from the Ignition Coil (Fig. G).

*The coil is located on the right side of the quad.*

**FIG.H**



- 11 Plug the connectors from the PCV in-line of the stock wiring harness and ignition coil (Fig. H).

**FIG.J**



- 12 Reinstall the airbox.
- 13 Install the PCV to the rear of the airbox using the supplied velcro (Fig. J).  
*Clean both surfaces with the supplied alcohol swab prior to applying the velcro adhesive.*
- 14 Reinstall panels and seat.