

# [POWER COMMANDER V]

## FUEL AND IGNITION

### 2016 Polaris Sportsman Ace 900

#### 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 Posi-tap

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

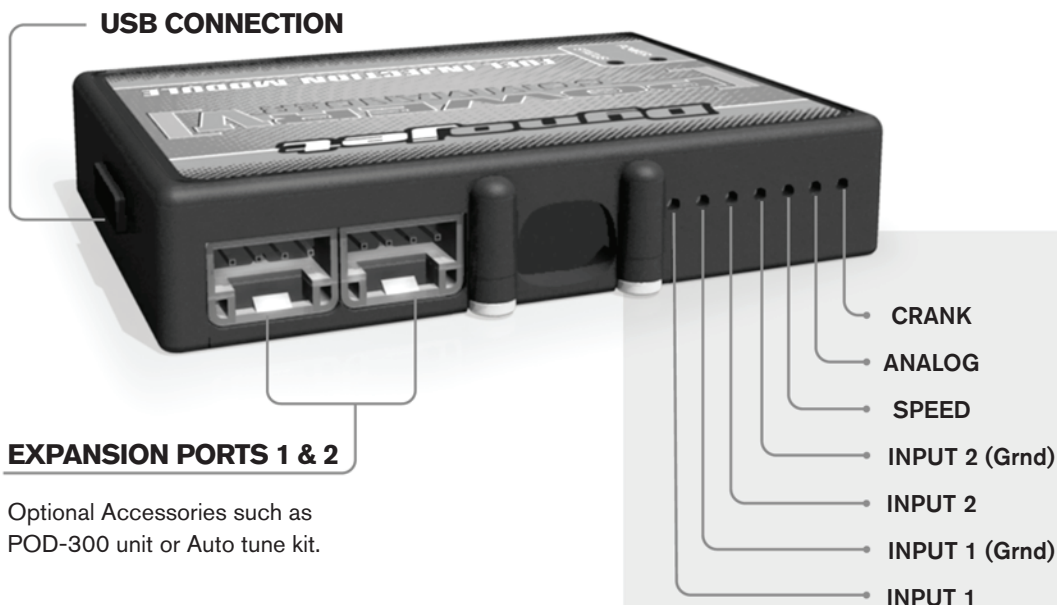
THE LATEST POWER COMMANDER  
SOFTWARE AND MAP FILES CAN BE  
DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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)

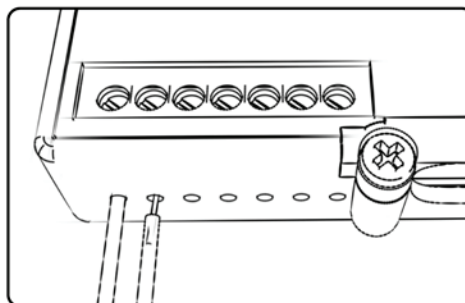
# POWER COMMANDER V INPUT ACCESSORY GUIDE



## 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-

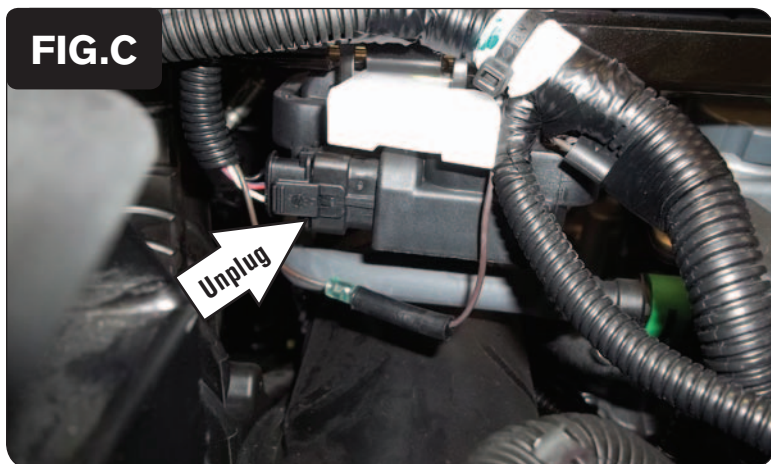
Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



- 1 Remove the seat, the engine access panel behind the seat, and the engine access panel at the bottom of the cargo bed (Fig. A).



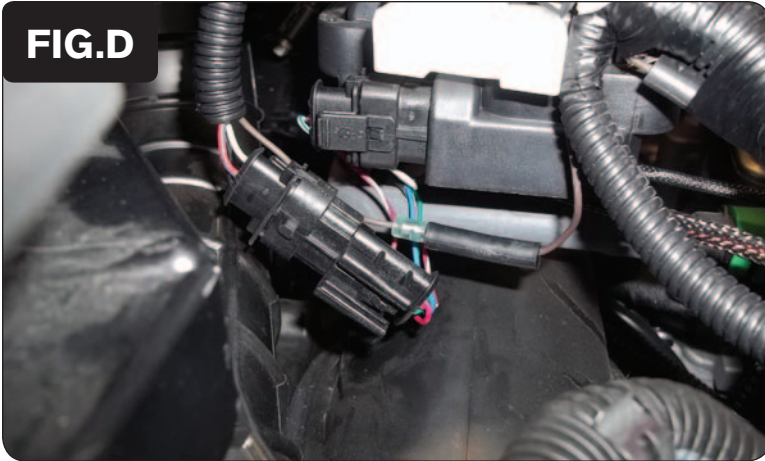
- 2 Use the supplied Velcro to secure the PCV module to the top of the battery.  
*Clean both surfaces with the supplied alcohol swab prior to applying the Velcro.*
- 3 Secure the PCV ground wire with the small ring lug to the negative (-) terminal of the vehicle's battery (Fig. B).
- 4 Route the PCV wiring harness rearward towards the engine.



- 5 Unplug the stock wiring harness from the vehicle's Ignition Coil (Fig. C).

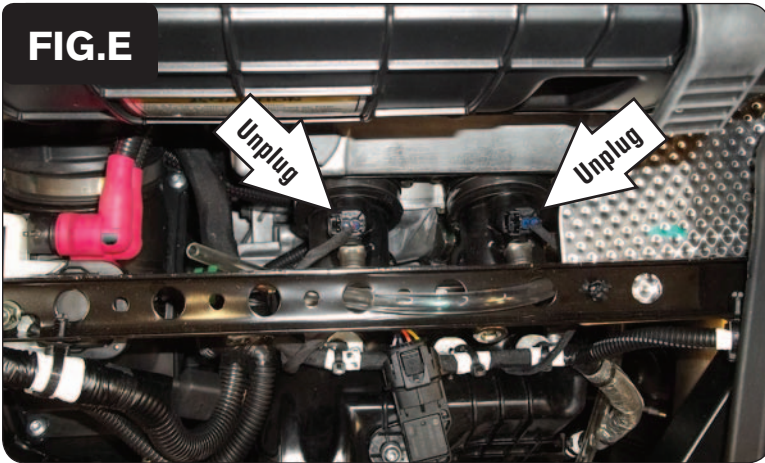


**FIG.D**



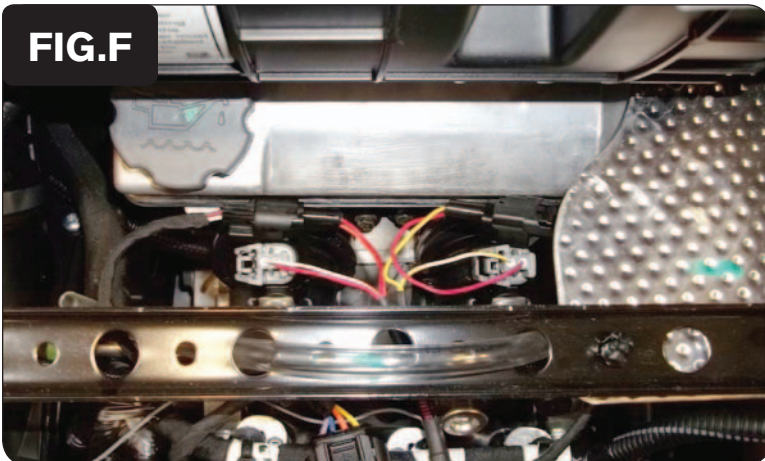
- 6 Plug the pair of PCV connectors with GREEN and BLUE colored wires in-line of the Ignition Coil and the stock wiring harness (Fig. D).

**FIG.E**



- 7 Unplug the stock wiring harness from both of the Fuel Injectors (Fig. E).

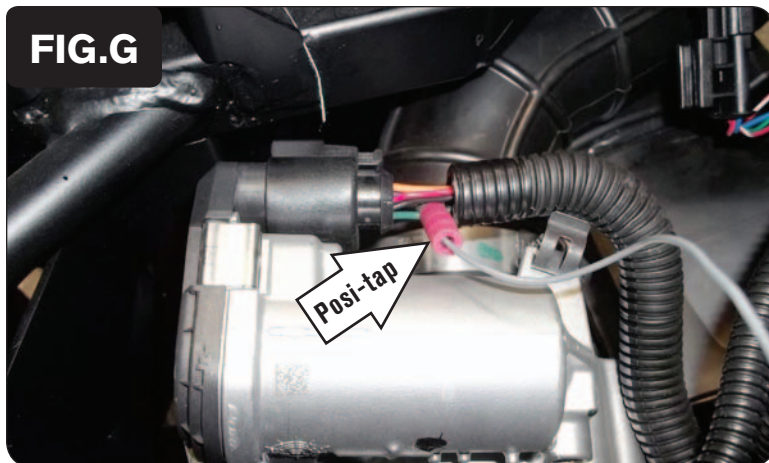
**FIG.F**



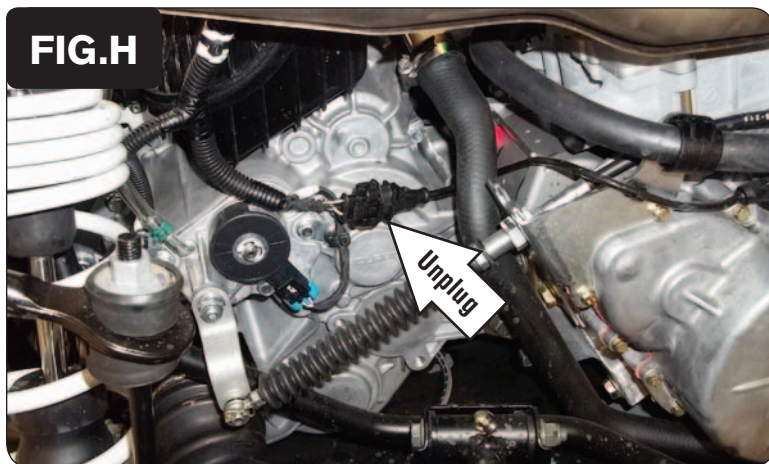
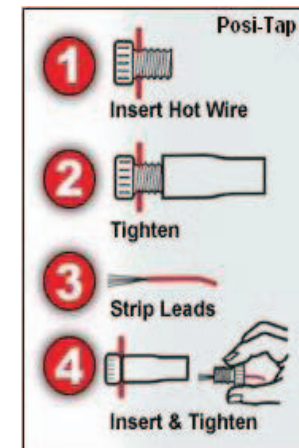
- 8 Plug the PCV wiring harness in-line of both Fuel Injectors and the stock wiring harness (Fig. F).

*The pair of PCV connectors with ORANGE colored wires should go in-line of the LEFT cylinder fuel injector.*

*The pair of PCV connectors with YELLOW colored wires should go in-line of the RIGHT cylinder fuel injector.*



- 9 Use the supplied Posi-tap to attach the GREY wire of the PCV wiring harness to the stock DARK GREEN wire of the Throttle Body Servo connector (Fig. G).



- 10 On the right side of the engine, locate and unplug the stock connectors for the Crank Position Sensor (Fig. H).



- 11 Plug the pair of PCV wiring harness connectors with BROWN colored wires in-line of the stock Crank Position Sensor connectors (Fig. J).
- 12 Reinstall the engine access panels and the seat.