

[POWER COMMANDER V]

FUEL AND IGNITION

2017 Polaris Sportsman 1000

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!**

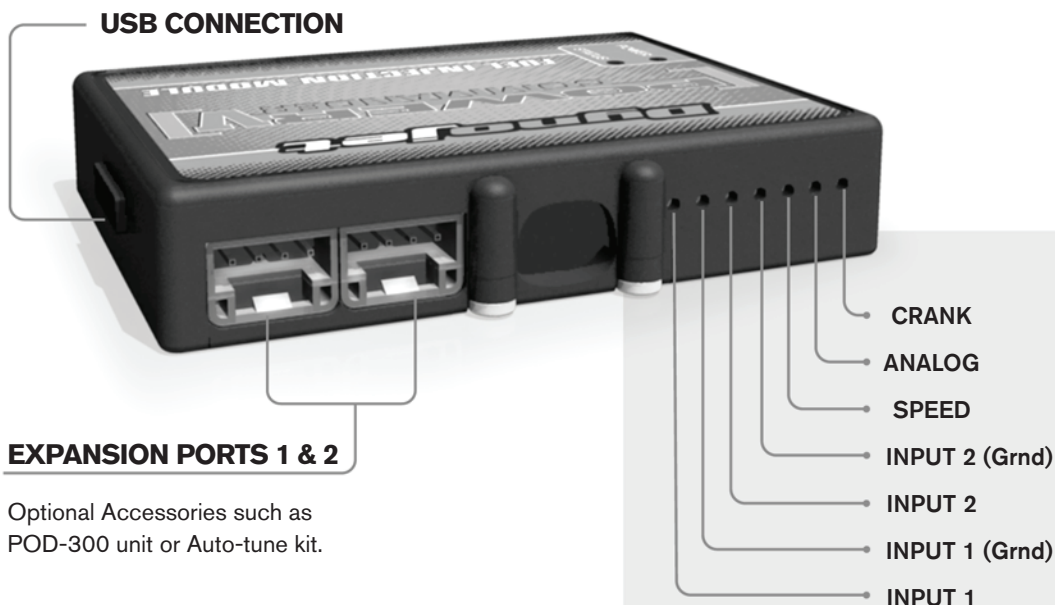
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION

Dynojet

2191 Mendenhall Drive North Las Vegas, NV 89081 (800) 992-4993 www.powercommander.com

POWER COMMANDER V INPUT ACCESSORY GUIDE



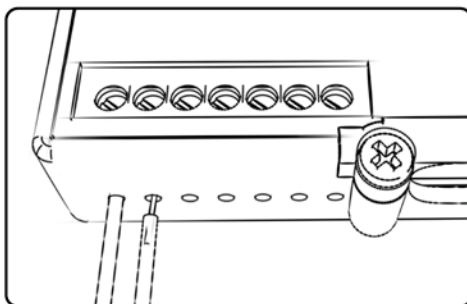
EXPANSION PORTS 1 & 2

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) 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-

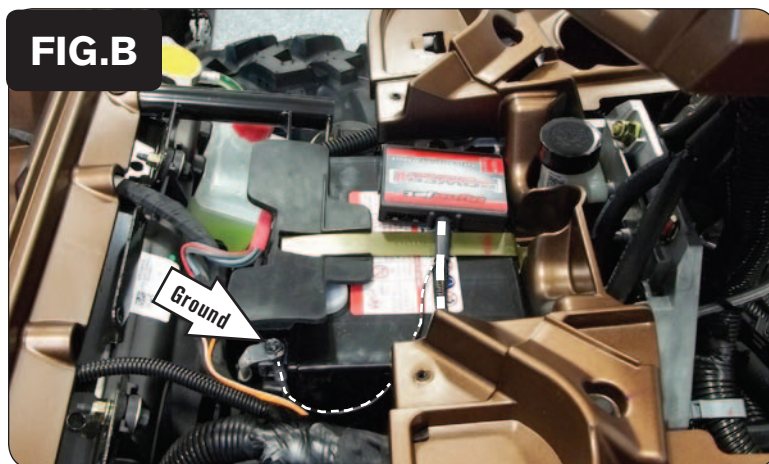
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

Crank-

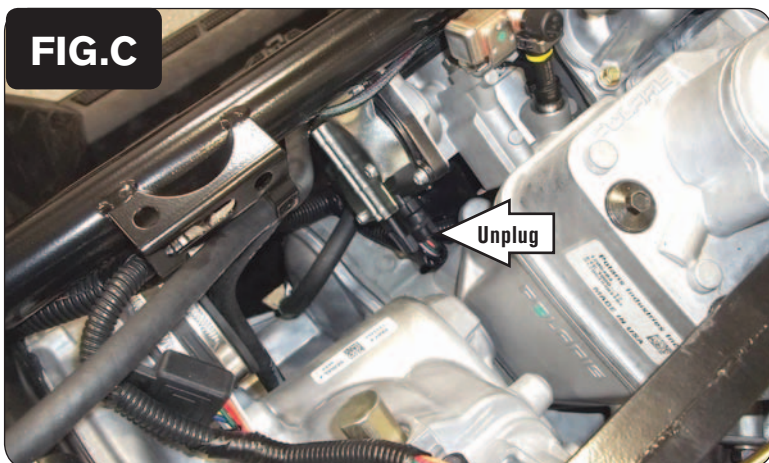
Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



- 1 Open the front compartment where the battery is stored. Remove the seat and the side panels below the seat on both sides of the ATV (Fig. A).
- 2 Remove the airbox.



- 3 Install the PCV module on top of the stock battery using the supplied Velcro (Fig. A).
Make sure to clean both surfaces with the supplied alcohol swab before attaching the Velcro.
- 4 Attach the ground wire of the PCV with the small ring terminal to the negative (-) side of the ATV's battery.
- 5 Route the PCV harness towards the rear following along the upper frame tube on the left side of the ATV.



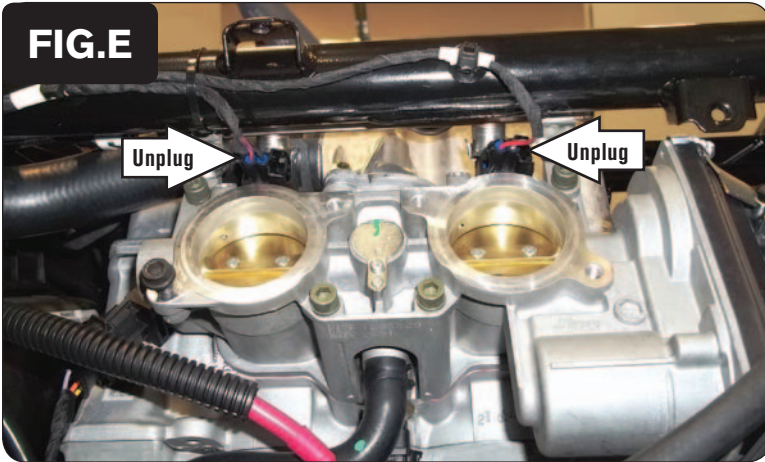
- 6 Unplug the stock wiring harness from the Throttle Body Servo (Fig. C).
This is a 6-pin BLACK connector located on the rear side of the throttle body. Figure C was taken with the clutch snorkel removed.

FIG.D



- 7 Plug the PCV wiring harness in-line of the Throttle Body Servo and the stock wiring harness (Fig. D).

FIG.E



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

FIG.F



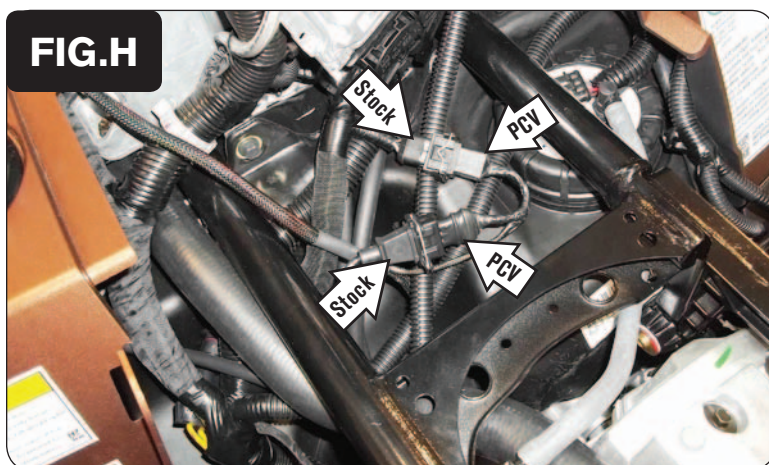
- 9 Plug the PCV in-line of the stock wiring harness and Fuel Injectors (Fig. F).

Connect the ORANGE colored wires of the PCV to the front cylinder.

Make sure the PCV harness is routed above the throttle bodies so they do not get pinched when reinstalling the air box.



- 10 Locate the stock Crank Position Sensor connectors and unplug them (Fig. G).
This is a BLACK 3-pin connector located near the ECM, underneath the airbox.



- 11 Plug the PCV wiring harness in-line of the stock Crank Position Sensor connectors (Fig. H).



- 12 Reinstall the airbox.
- 13 Locate and unplug the stock wiring harness from the Ignition Coil (Fig. J).
The coil is located on the right side of the airbox.



- 13 Plug the PCV wiring harness in-line of the Ignition Coil and the stock wiring harness (Fig. K).
- 14 Reinstall all of the removed bodywork and the seat.