

[POWER COMMANDER V]

2005-2014 Polaris Sportsman 800

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!**

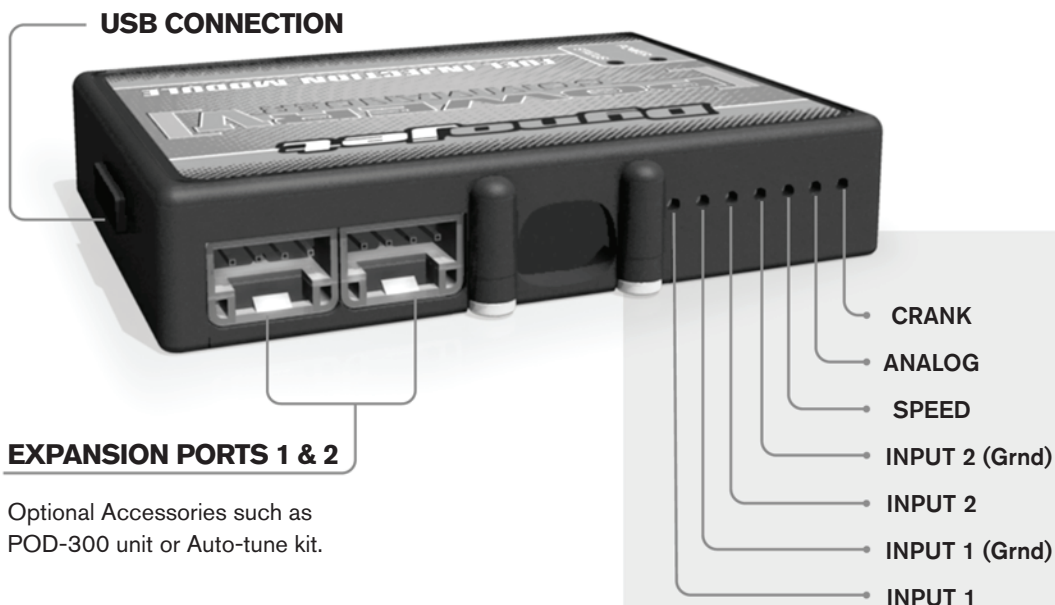
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

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



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-

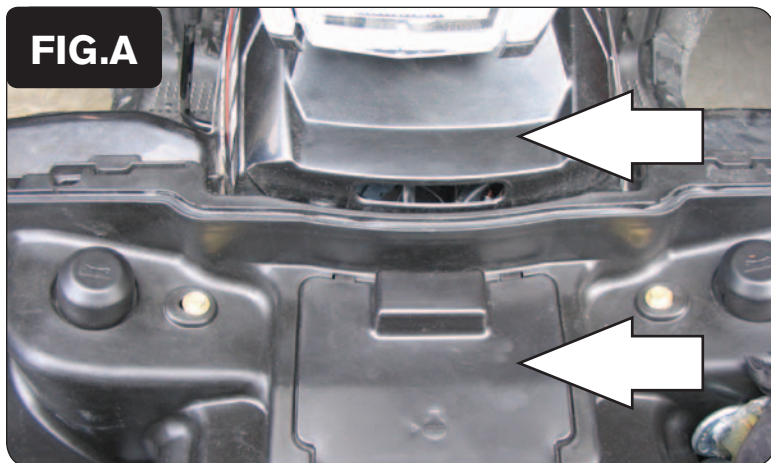
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

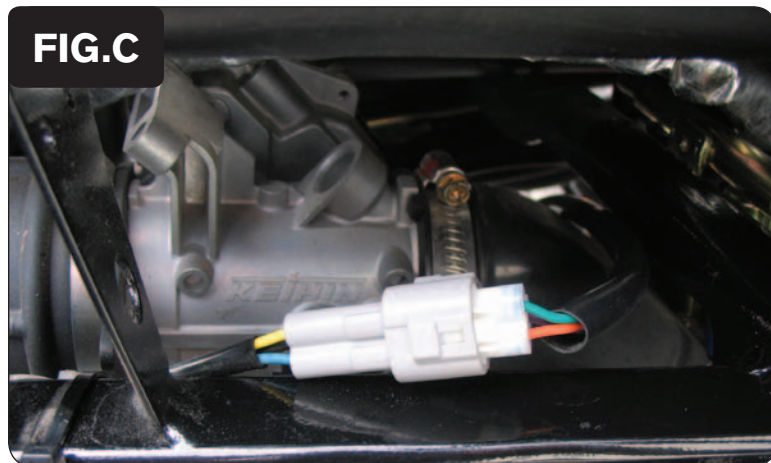


- 1 Remove the side panels from each side of the ATV.
- 2 Prop the front rack open.
- 3 Remove both access covers shown in Fig. A.



- 4 Install the PCV to the side of the ECU (Fig. B).

Use the supplied velcro to mount the PCV. Make sure to use the supplied alcohol swab to clean both surfaces.



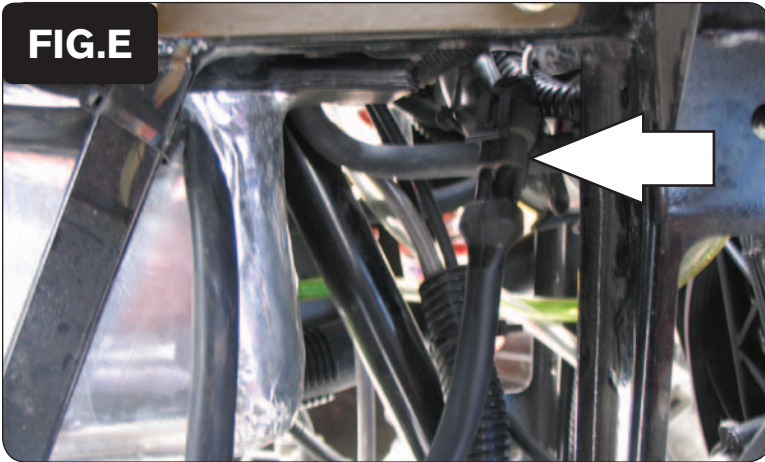
- 5 Locate the stock Throttle Position Sensor connector on the right hand side of the throttle bodies. This is a white 3-pin connector (Fig. C).
- 6 Unplug this connector.

FIG.D



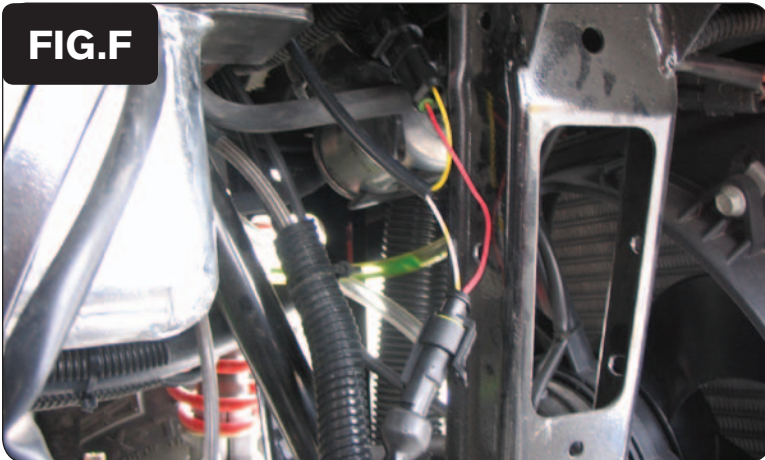
- 7 Route the white connectors from the PCV down the right hand side of the ATV and plug them in-line of the stock TPS connectors (Fig. D).
- 8 Use one of the supplied zip ties to hold the PCV harness to the frame.

FIG.E

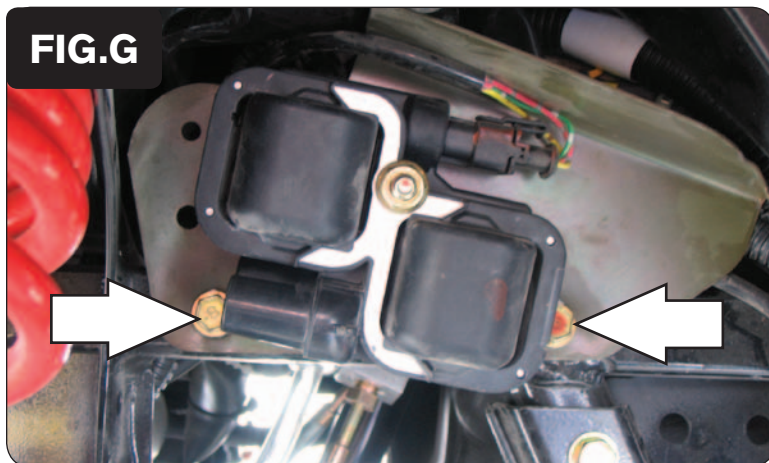


- 9 Locate the stock #2 injector harness on the right hand side of the ATV.
This connector is located in the right wheel well of the ATV. This may be located by following the wiring harness back from the injector until you find the connector shown in Fig. E.
- 10 Unplug this connector.

FIG.F



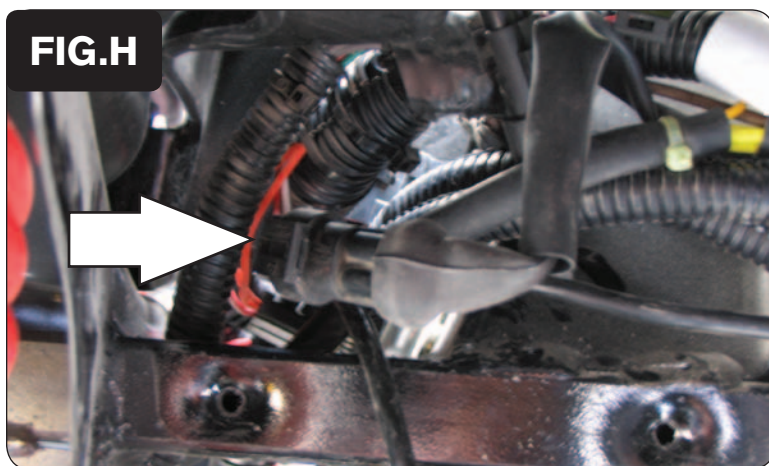
- 11 Plug the pair of PCV connectors with YELLOW colored wires in-line of the stock #2 injector connectors (Fig. F).



- 12 On the left hand side of the ATV remove the two bolts that hold the ignition coil bracket to the frame (Fig. G).

To access the bolt on the left you will need to pull the spark plug wires from the coils.

Removing the coil bracket will allow you access to the #1 injector harness.



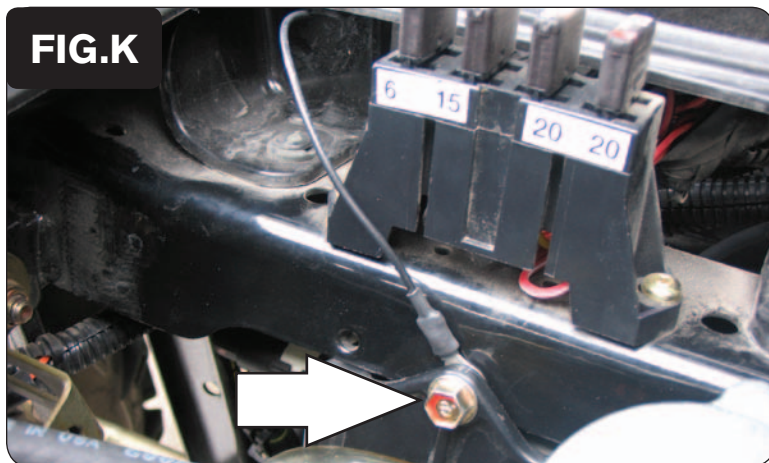
- 13 Locate the stock #1 injector harness on the left hand side of the ATV.

This may be located by following the wiring harness back from the injector until you find the connector shown in Fig. H.

- 14 Unplug this connector



- 15 Plug the pair of PCV connectors with ORANGE colored wires in-line of the stock #1 injector connectors (Fig. J).
- 16 Reinstall the coil bracket.



- 17 Attach the ground wire of the PCV to the frame bolt shown in Fig. K.

This bolt is located under the access panel in the front storage compartment.

It is recommended to scuff the paint of the frame where the wire contacts the frame. Make sure to install the bolt through the plastic bracket first, then the PCV ground wire.

- 18 Reinstall all of the covers.