

[POWER COMMANDER V]

FUEL AND IGNITION

2009-2014 Polaris Sportsman 550

Installation Instructions



PARTS LIST

- 1 Power Commander
- 1 USB Cable
- 1 Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 2 Dual Lock strips
- 1 Alcohol swab
- 2 Zip ties

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

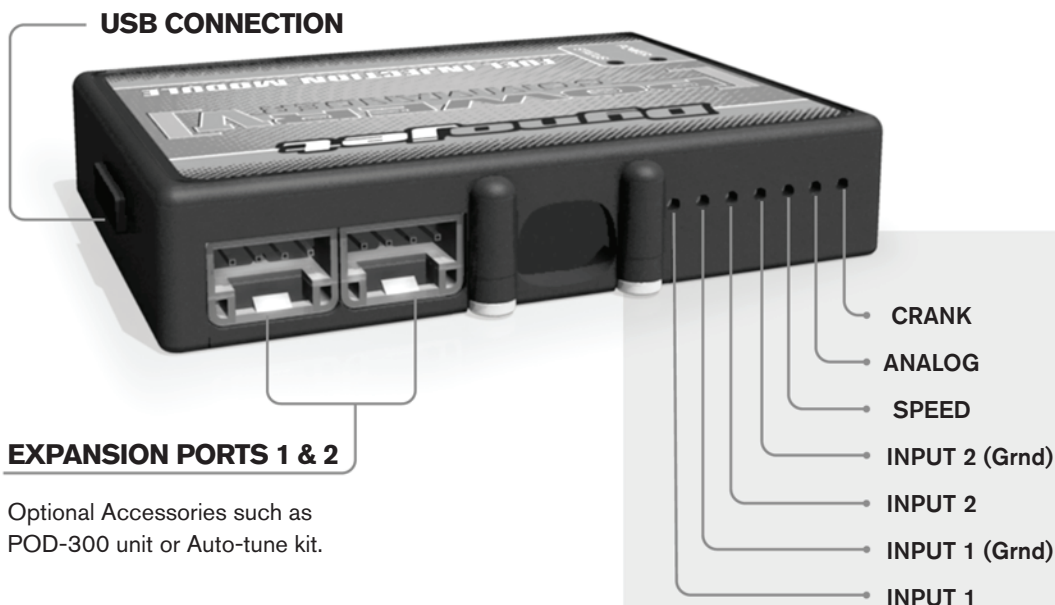
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

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

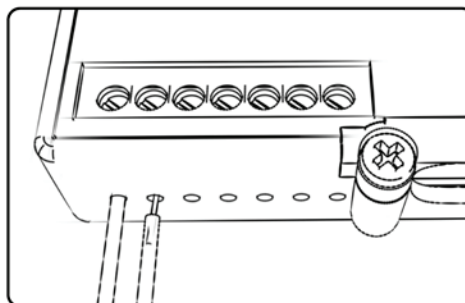


Optional Accessories such as
POD-300 unit or Auto-tune kit.

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.

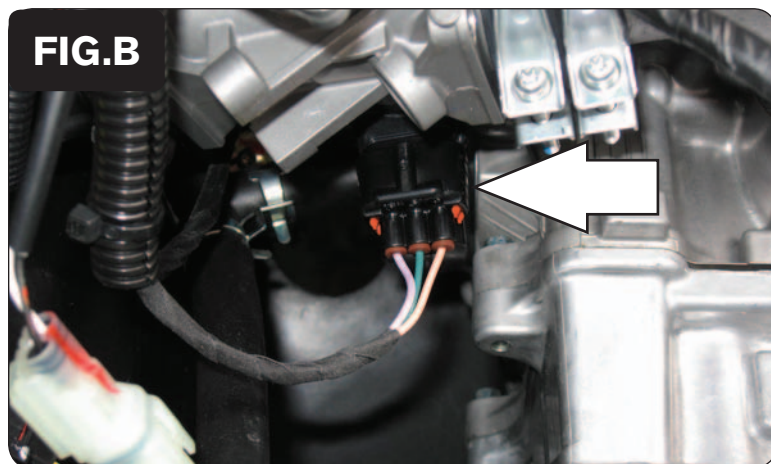
Crank-

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.



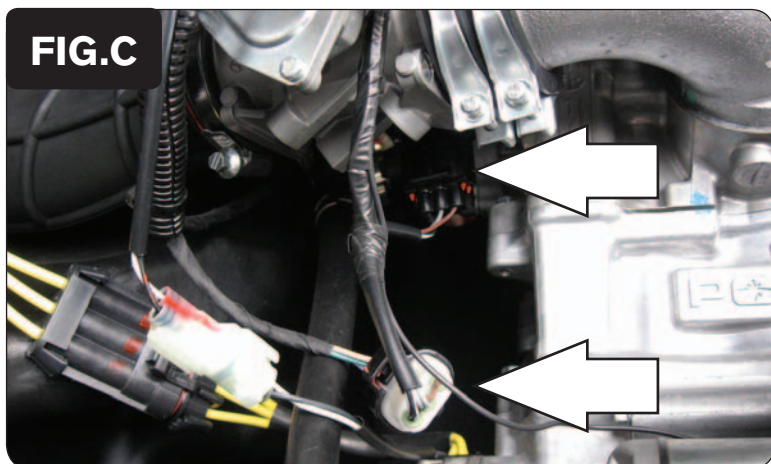
- 1 Remove the seat and the left hand side panel.
- 2 Install the PCV on top of the stock ECU using the supplied Dual Lock (Fig. A).

Make sure to clean both surfaces with the alcohol swab prior to applying the Dual Lock adhesive.

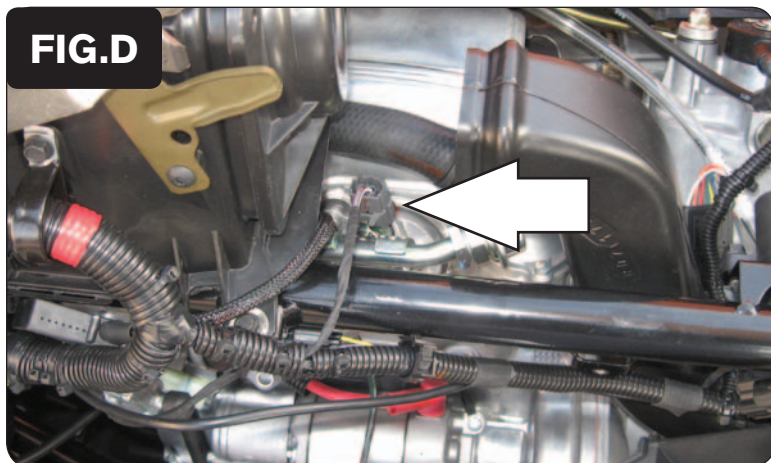


- 3 Unplug the stock wiring harness from the Throttle Position Sensor (Fig. B).

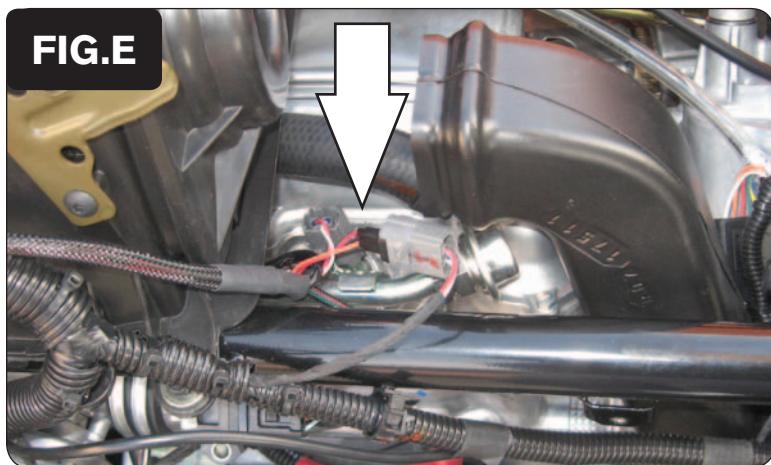
The TPS is located to the rear of the throttle body.



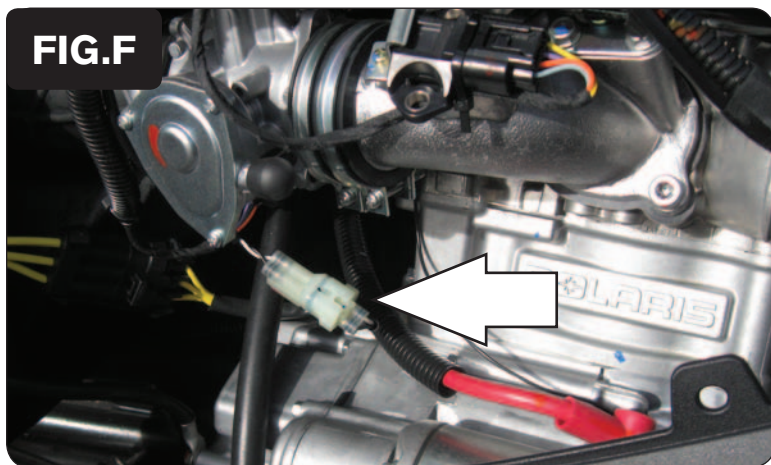
- 4 Plug the connectors of the PCV in-line of the stock TPS and wiring harness (Fig. C).



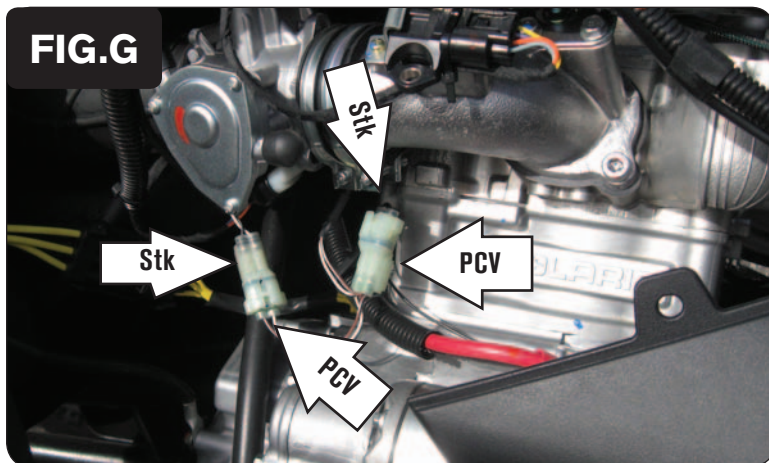
- 5 Unplug the stock wiring harness from the fuel injector (Fig. D).



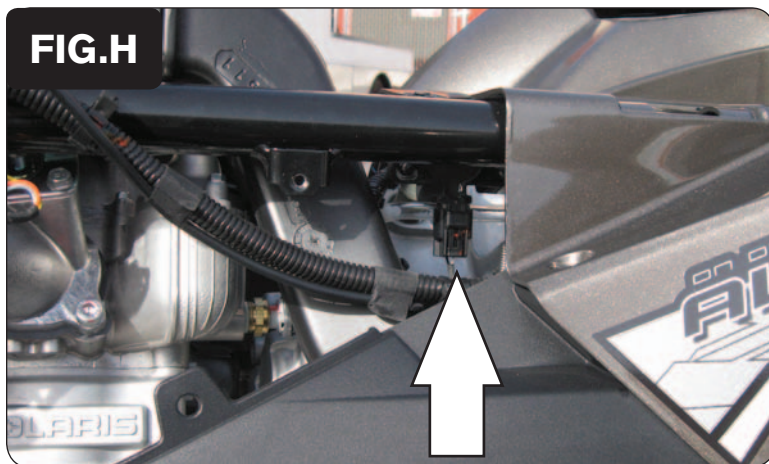
- 6 Plug the PCV in-line of the stock wiring harness and injector (Fig. E).



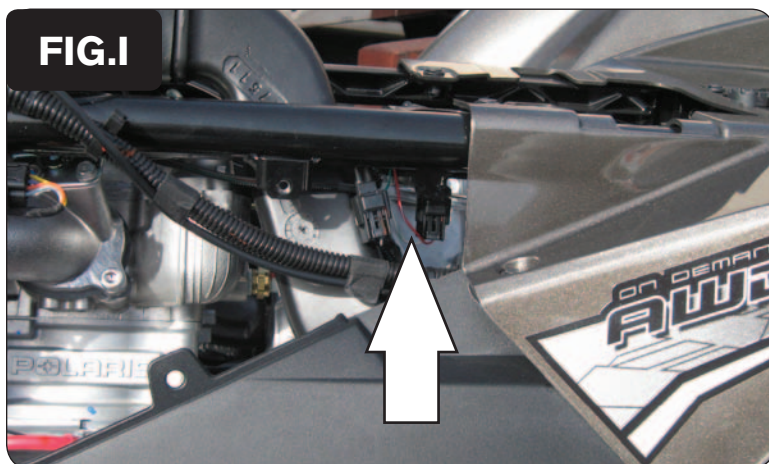
- 7 Unplug the clear 2-pin crank position sensor connector (Fig. F).
This connector is located under the throttle body on the left side of the ATV.



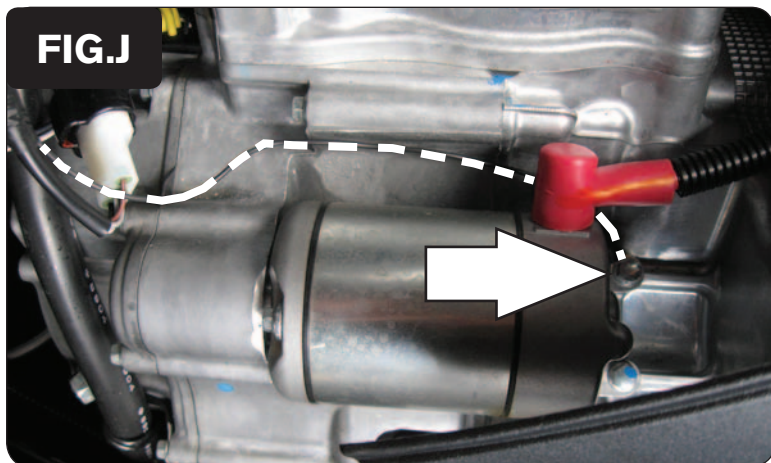
- 8 Plug the PCV connectors in-line of the stock crank position connectors (Fig. G).



- 9 Unplug the stock wiring harness from the ignition coil (Fig. H).



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



- 11 Attach the ground wire of the PCV to the starter bolt on the left side of the engine case (Fig. J).
- 12 Use the supplied zip ties to secure the PCV wiring harness free and clear of any hot or moving parts.
- 13 Reinstall the left hand side cover and seat.