

[POWER COMMANDER V]

FUEL AND IGNITION

2009-2011 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!**

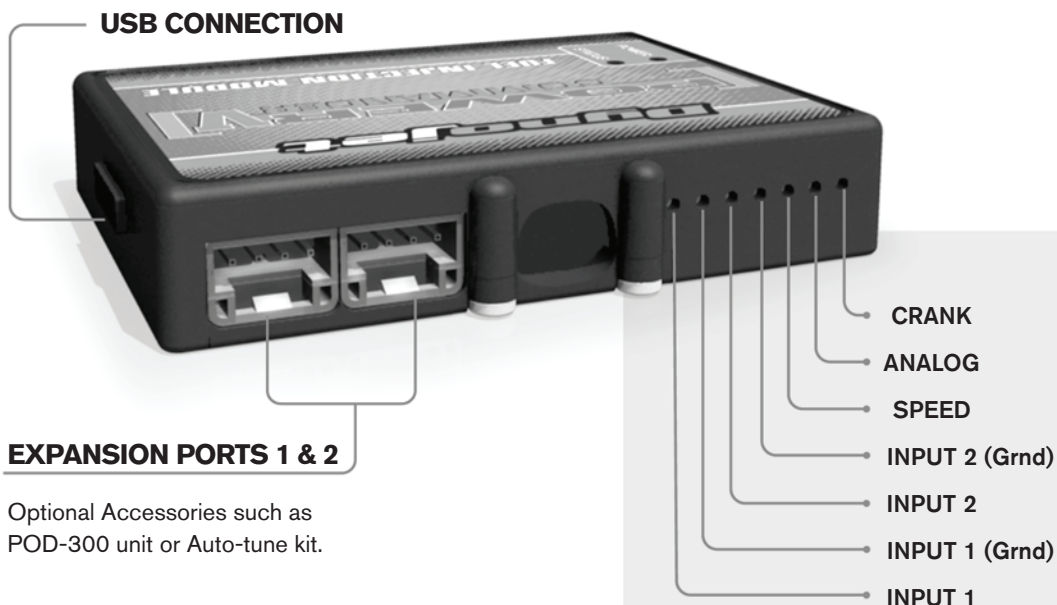
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

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

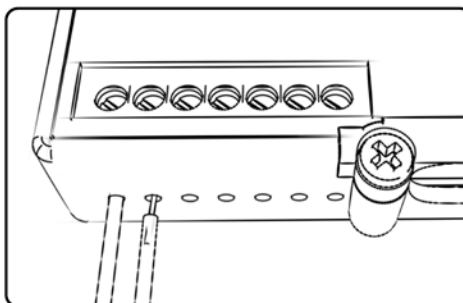


Optional Accessories such as
POD-300 unit or Auto-tune kit.

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-

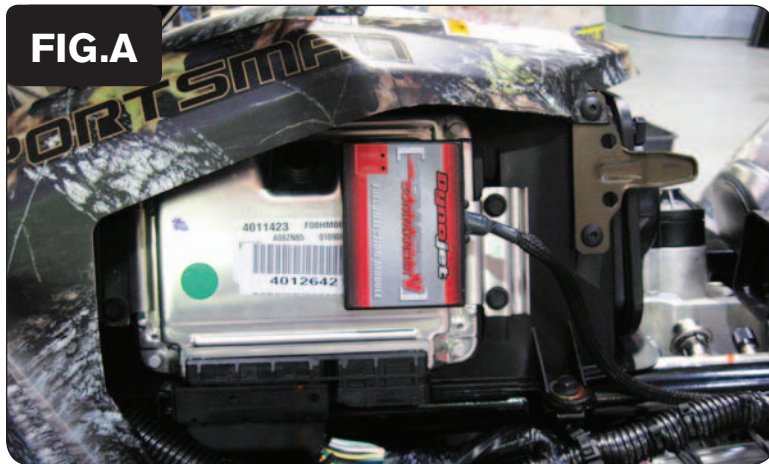
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

Analog-

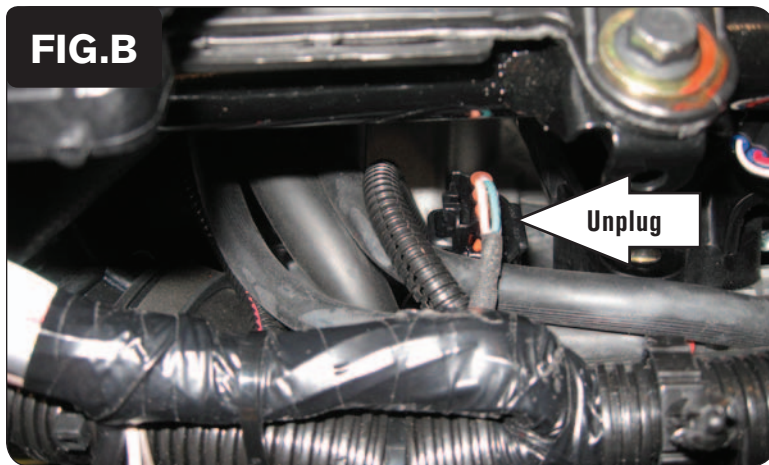
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

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.



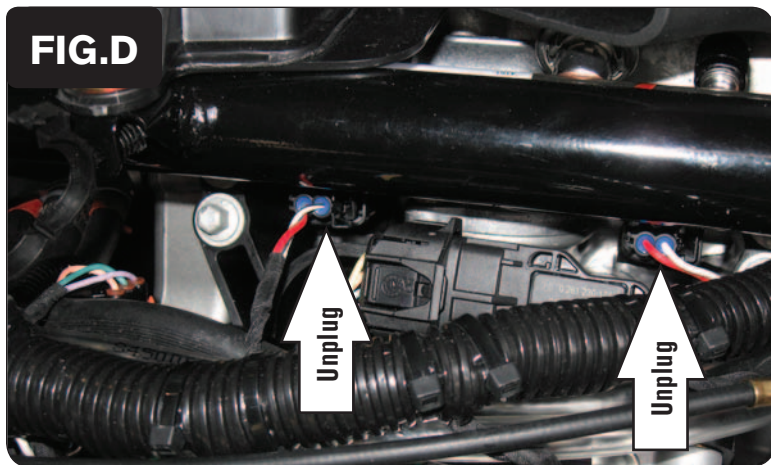
- 1 Remove the seat and both side panels.
- 2 Install the PCV on top of the stock ECU using the supplied velcro (Fig. A).
Clean both surfaces with the supplied alcohol swab prior to attaching the Velcro.



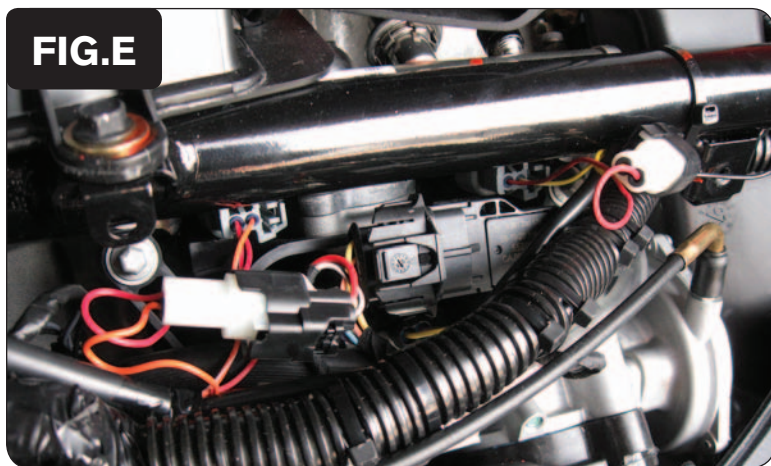
- 3 Unplug the stock wiring harness from the Throttle Position Sensor (Fig. B).
The TPS is located on the front side of the throttle bodies.



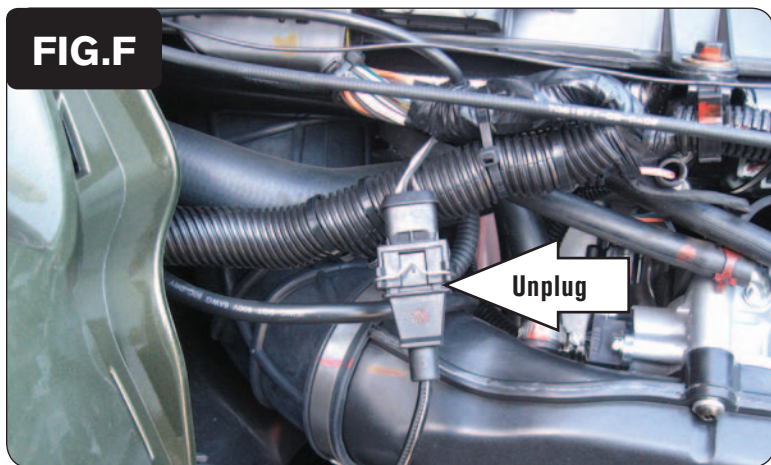
- 4 Plug the 3-pin connectors of the PCV in-line of the stock TPS and wiring harness (Fig. C).



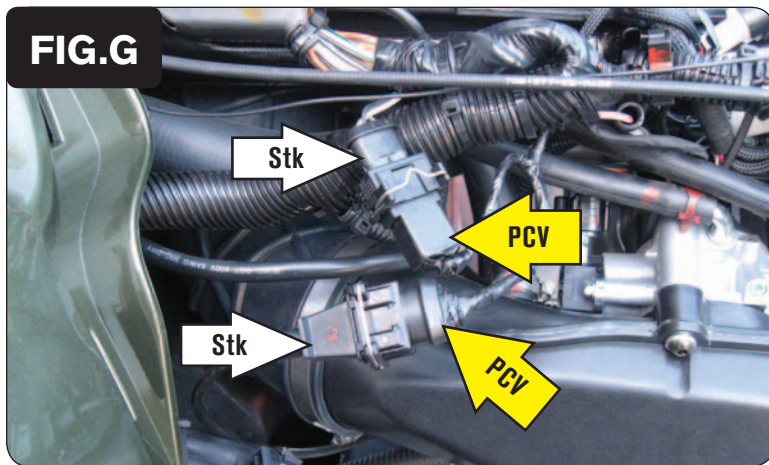
- 5 Unplug the stock wiring harness from each injector (Fig. D).



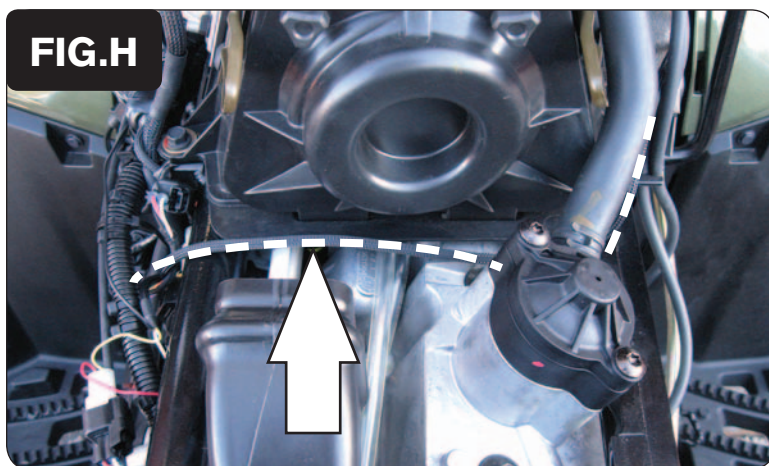
- 6 Plug the PCV in-line of the stock wiring harness and injectors (Fig. E).
Connect the ORANGE colored wires of the PCV to the front cylinder.



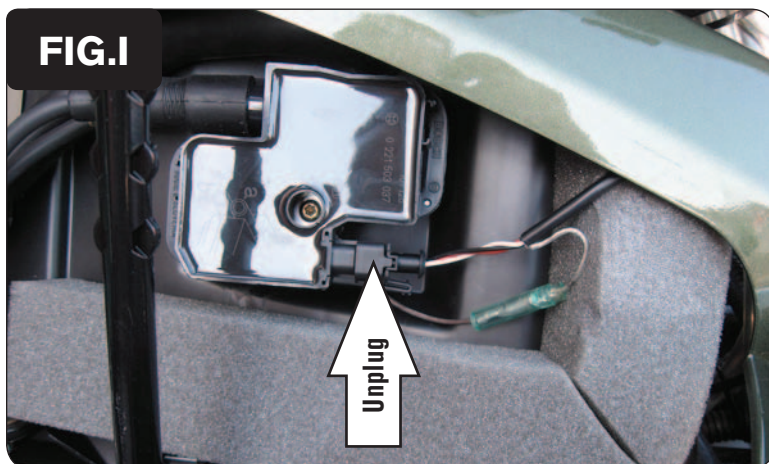
- 7 Unplug the 3-pin crank position connector (Fig. F).
This connector is located on the left side of the ATV.



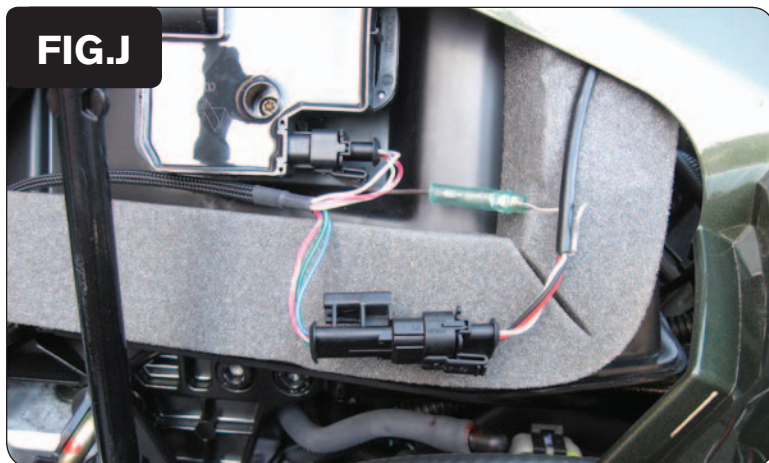
- 8 Plug the PCV connectors in-line of the stock crank position connectors (Fig. G).



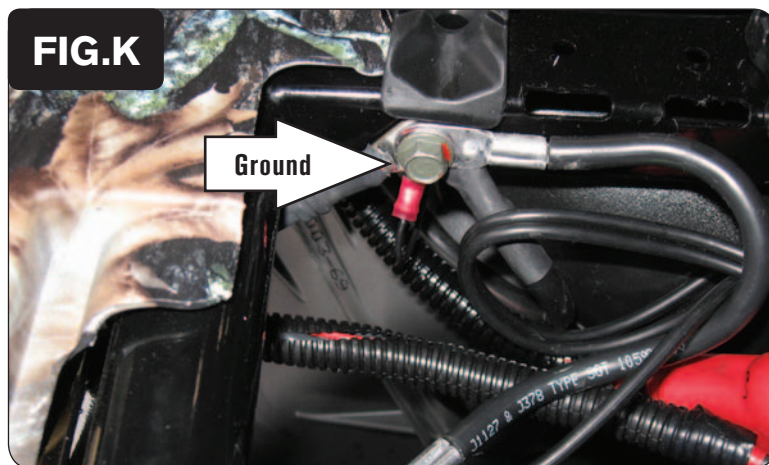
- 9 Route the PCV harness over to the right side of the ATV and go towards the ignition coil (Fig. H).



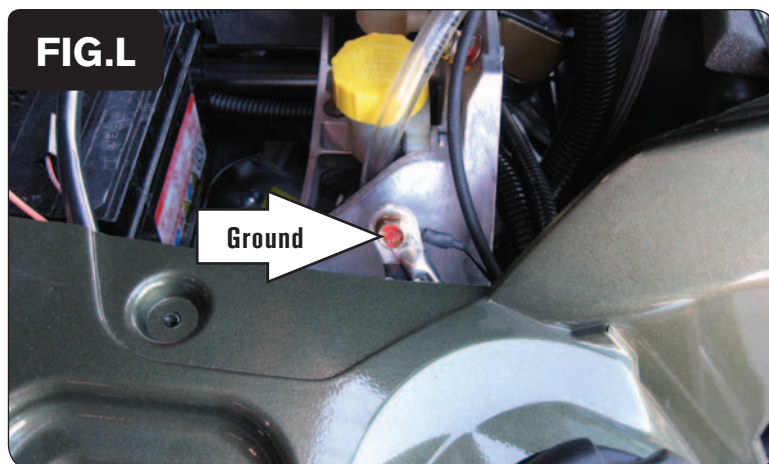
- 10 Unplug the stock wiring harness from the ignition coil (Fig. I).
The ignition coil is located on the right side of the ATV near the shifter.



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



- FOLLOW THIS STEP FOR THE 2009-2010 MODELS. FOR 2011 MODELS SKIP TO STEP 13.**
- 12 Attach the ground wire of the PCV to the ground bolt near the battery (Fig. K).
The battery is located to the rear of the ATV.



- FOLLOW THIS STEP FOR 2011 MODELS.**
- 13 Remove the battery access cover on the front of the ATV.
 - 14 Attach the ground wire of the PCV to the ground bolt near the brake reservoir (Fig. L).
 - 15 Reinstall side covers and seat.