

# [POWER COMMANDER V]

## FUEL AND IGNITION

**2011-2015 Suzuki Kingquad 400**

**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!**

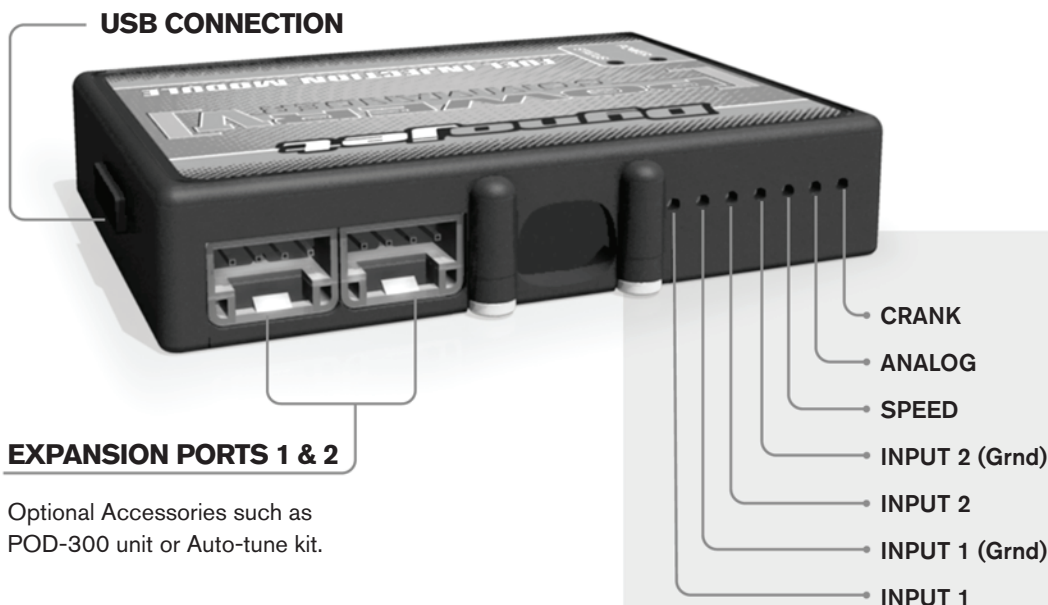
THE LATEST POWER COMMANDER  
SOFTWARE AND MAP FILES CAN BE  
DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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

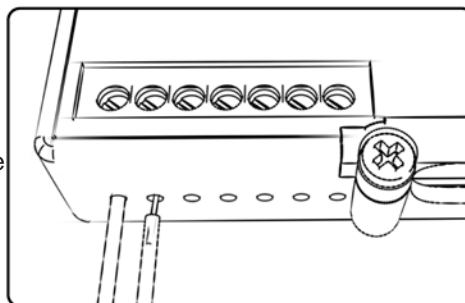


Optional Accessories such as  
POD-300 unit or Auto-tune kit.

## 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-

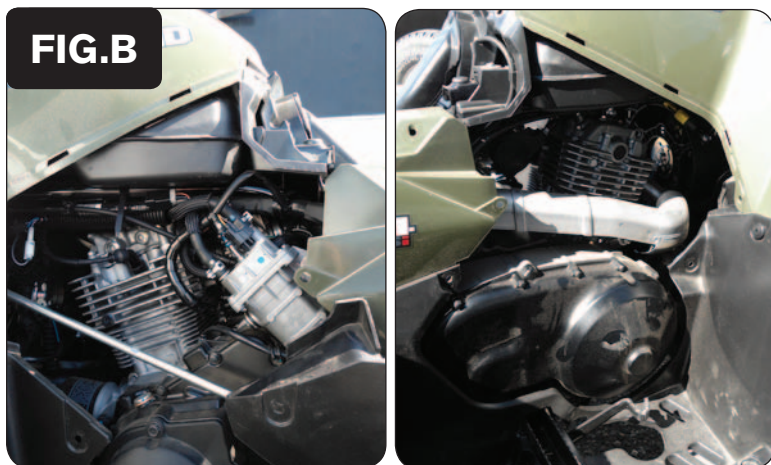
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

### Crank-

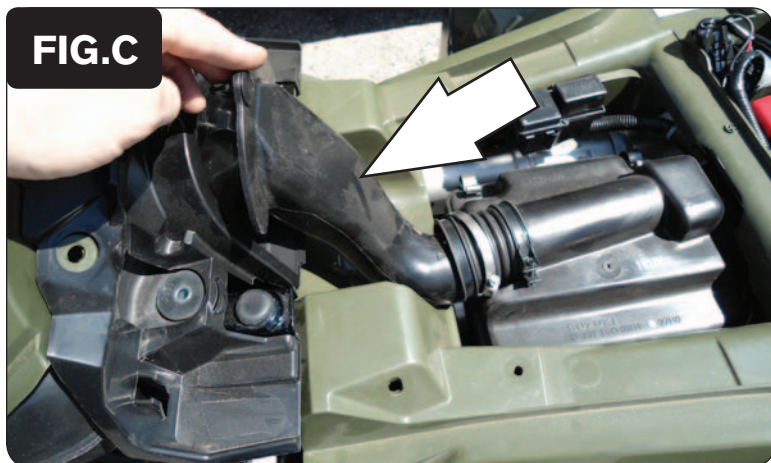
Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



- 1 Remove the seat (Fig. A).



- 2 Remove the left and right hand side panels (Fig. B).

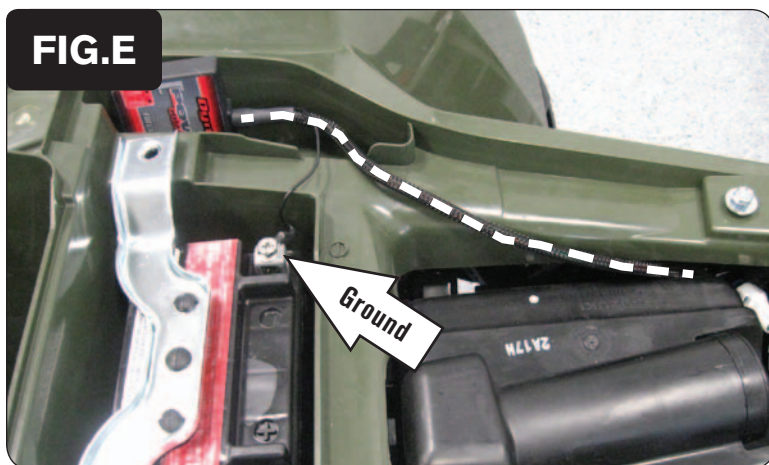


- 3 Loosen the clamps for the air intake snorkel and remove the snorkel (Fig. C).

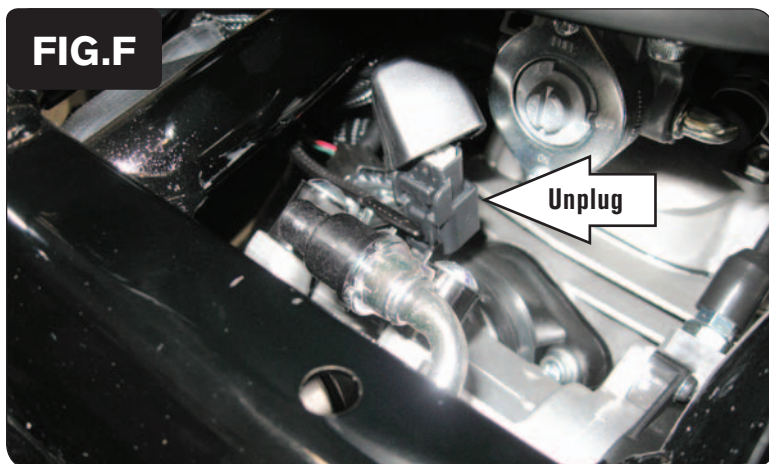




- 4 Remove the fuel cap and fuel tank shroud.
- 5 Remove the two bolts securing the fuel tank to the frame (Fig. D).



- 6 Using the supplied Dual Lock strips, secure the PCV module inside of the pocket on the left side of the rear fender under the seat (Fig. E).  
*Make sure to clean both surfaces with the supplied alcohol swab prior to applying the Dual Lock.*
- 7 Attach the ground lug of the PCV to the negative (-) terminal of the ATV's battery (Fig. E).
- 8 Route the PCV wiring harness forward, up the left hand side of the ATV, to the throttle body.



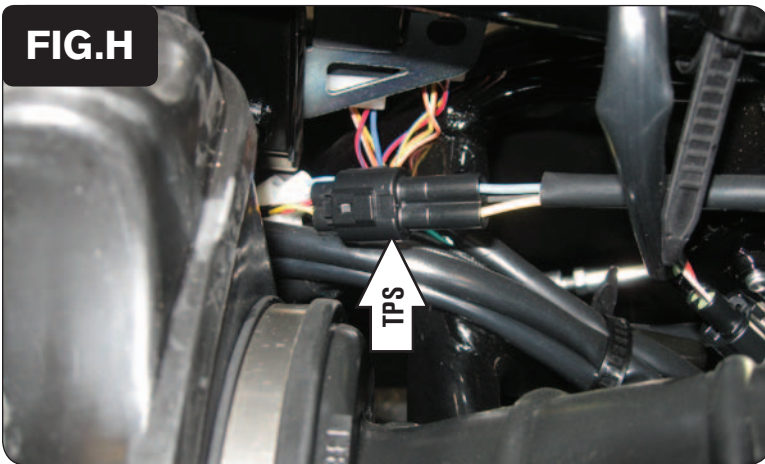
- 9 Locate the stock fuel injector connector on top of the ATV's throttle body (Fig. F).  
*The injector connector can be accessed by propping up the rear of the fuel tank and reaching in from under the rear of the fuel tank.*
- 10 Unplug the fuel injector connector.

**FIG.G**



- 11 Plug the pair of PCV wiring harness connectors with ORANGE colored wires in-line of the ATV's fuel injector and stock wiring harness (Fig. G).

**FIG.H**



- 12 Locate the ATV's Throttle Position Sensor connectors (Fig. H).

*The TPS connectors are located rearward of the injector and on the left hand side of the ATV.*

*This is a set of BLACK 3-pin connectors.*

*They can be accessed more easily by temporarily removing the quick tie that is binding them.*

*The picture in Fig. H was taken with the rear fender removed to show the connector. The rear fender does NOT need to be removed to preform this installation.*

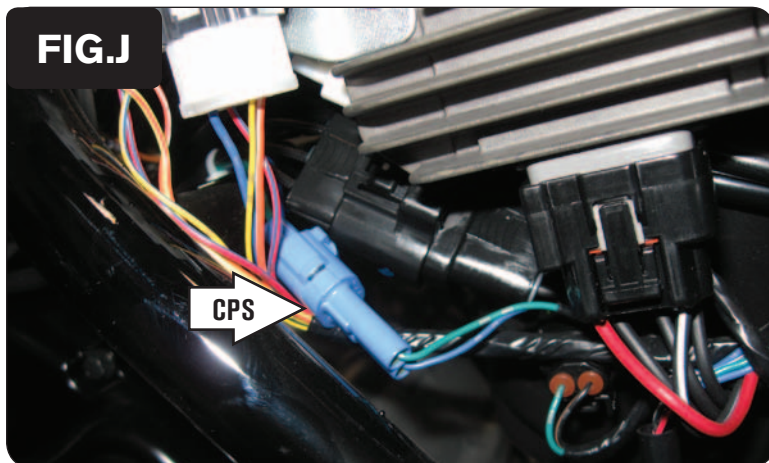
- 13 Unplug the stock TPS connectors.

**FIG.I**



- 14 Plug the pair of 3-pin connectors of the PCV wiring harness in-line of the stock TPS connectors (Fig. I).





- 15 Locate the BLUE 2-pin connectors for the ATV's Crank Position Sensor (Fig. J).

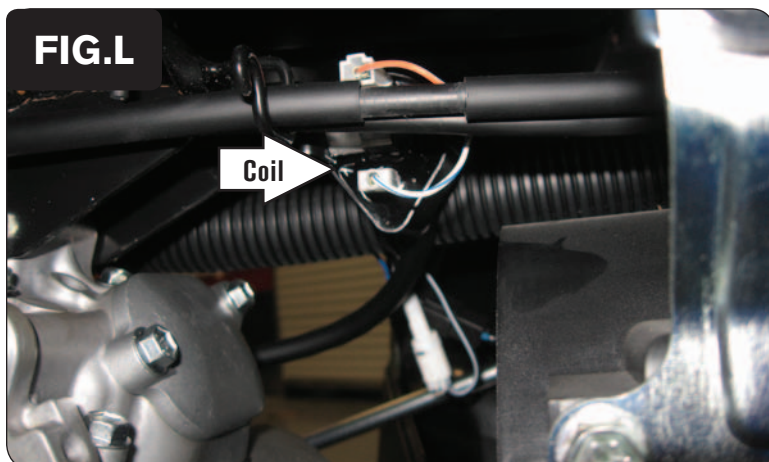
*These CPS connectors are located on the left side of the ATV below the TPS connectors.*

- 16 Unplug the stock CPS connectors.



- 17 Plug the pair of 2-pin connectors of the PCV wiring harness in-line of the stock CPS connectors (Fig. K).

- 18 Bundle the CPS and TPS connectors together and tie them up with the stock quick tie.



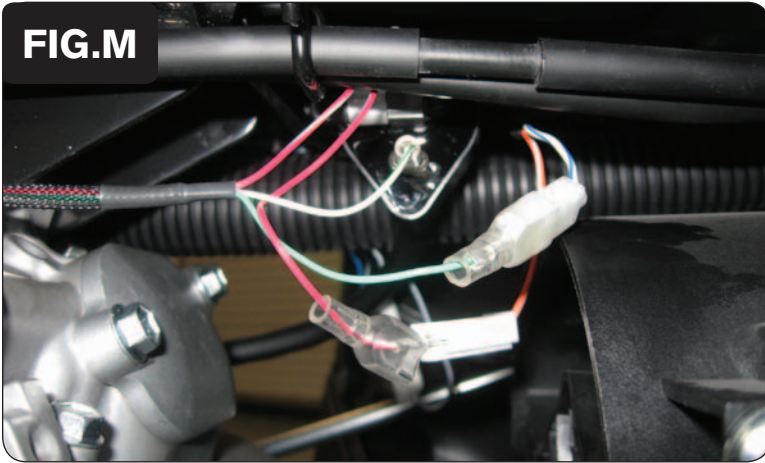
- 19 Locate the ATV's ignition coil (Fig. L).

*The ignition coil is located in front of the engine, on the right hand side of the ATV.*

- 20 Route the branch of the PCV wiring harness with male and female spade connectors up towards the coil.

- 21 Unplug the stock wires from the ignition coil.

**FIG.M**



- 22 Plug the PCV wiring harness in-line of the ignition coil and the stock coil wires.  
*Plug the RED/WHITE wires of the PCV harness in-line of the UPPER coil terminal and the stock ORANGE/WHITE wire.*  
*Plug the GREEN & WHITE/GREEN colored wires of the PCV harness in-line of the LOWER coil terminal and the stock WHITE/BLUE wire.*
- 23 Zip tie the PCV wire harness where desired, so as to avoid contact with any hot or moving parts.
- 24 Reinstall the fuel tank shroud, fuel tank bolts, fuel cap, air box snorkel and clamps, both of the side panels, and the seat.