

[POWER COMMANDER V]

2008-2013 Arctic Cat Thundercat 1000/XT

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!**

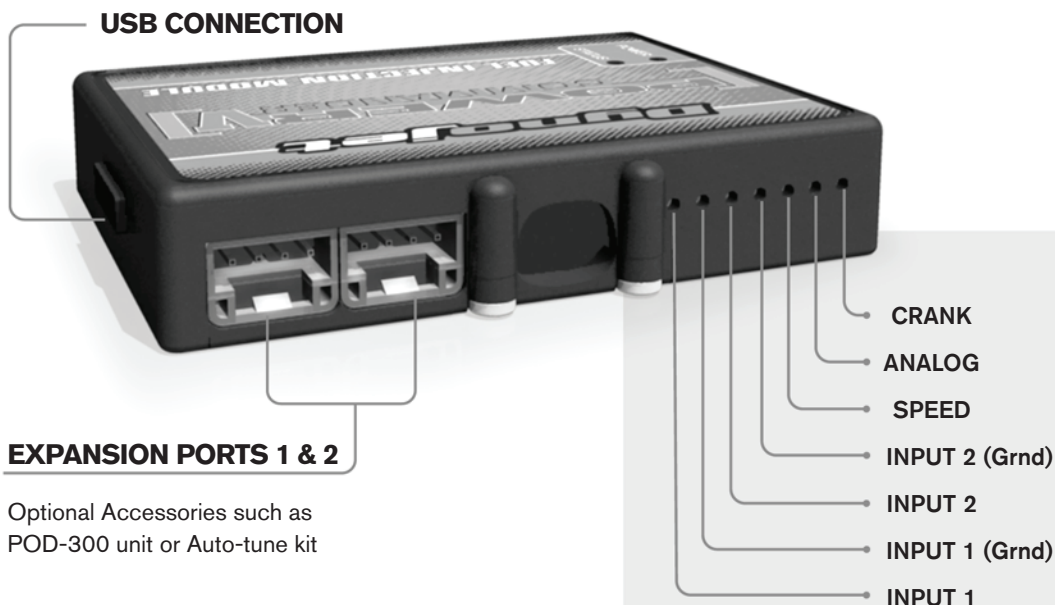
THE LATEST POWER COMMANDER
SOFTWARE AND MAP FILES CAN BE
DOWNLOADED FROM OUR WEB SITE AT:
www.powercommander.com

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-

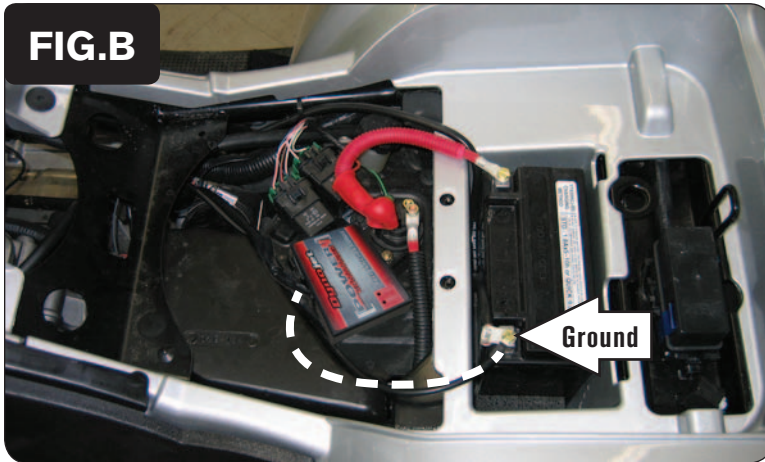
Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.

FIG.A



- 1 Remove the seat.
- 2 Remove the right hand side panel.
- 3 Remove the tool kit.

FIG.B



- 4 Using the supplied Velcro, secure the PCV module to the top of the airbox at the location shown in Figure B.

Make sure to clean both surfaces with the supplied alcohol swab before attaching the Velcro.

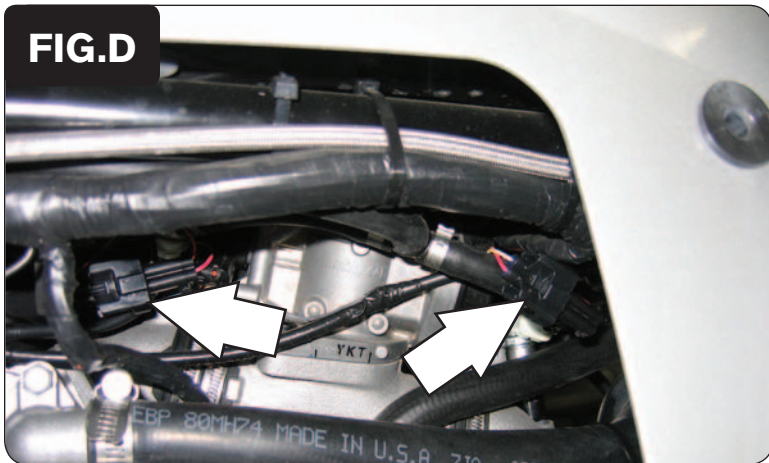
- 5 Attach the ground wire from the PCV wiring harness to the negative (-) terminal of the battery as shown in Figure B.

FIG.C



- 6 Route the PCV harness down the left side of the quad going towards the engine.
- 7 Unplug the stock wiring harness from both of the fuel injectors (Fig. C).

FIG.D

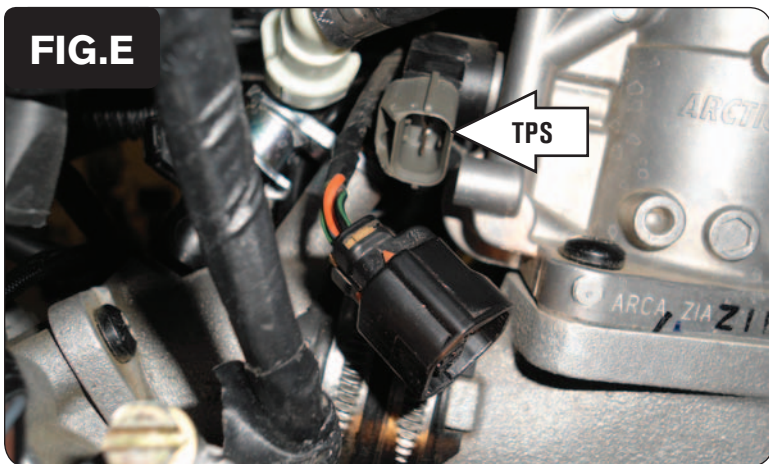


- 8 Plug the connectors from the PCV wiring harness in-line of both fuel injectors and the stock wiring harness connector for both fuel injectors as shown in Figure D.

The pair of PCV wiring harness leads with ORANGE colored wires are to go in-line of the FRONT cylinder fuel injector.

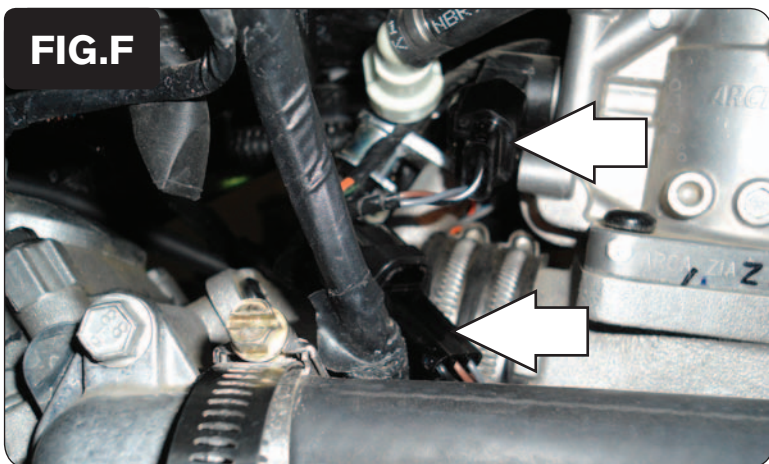
The other pair with YELLOW colored wires are to go in-line of the REAR cylinder fuel injector.

FIG.E



- 9 Locate the Throttle Position Sensor (TPS) connector.
The TPS connector is located on the right hand side of the throttle body.
- 10 Unplug the TPS connector as shown in Figure E.

FIG.F



- 11 Plug the pair of 3-pin PCV connectors in-line of the TPS and the stock wiring harness as shown in Figure F.
- 12 Reinstall the tool kit, right hand side panel, and the seat.