

# [POWER COMMANDER V]

## **2017 KTM 450/500 EXC-F**

### **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!**

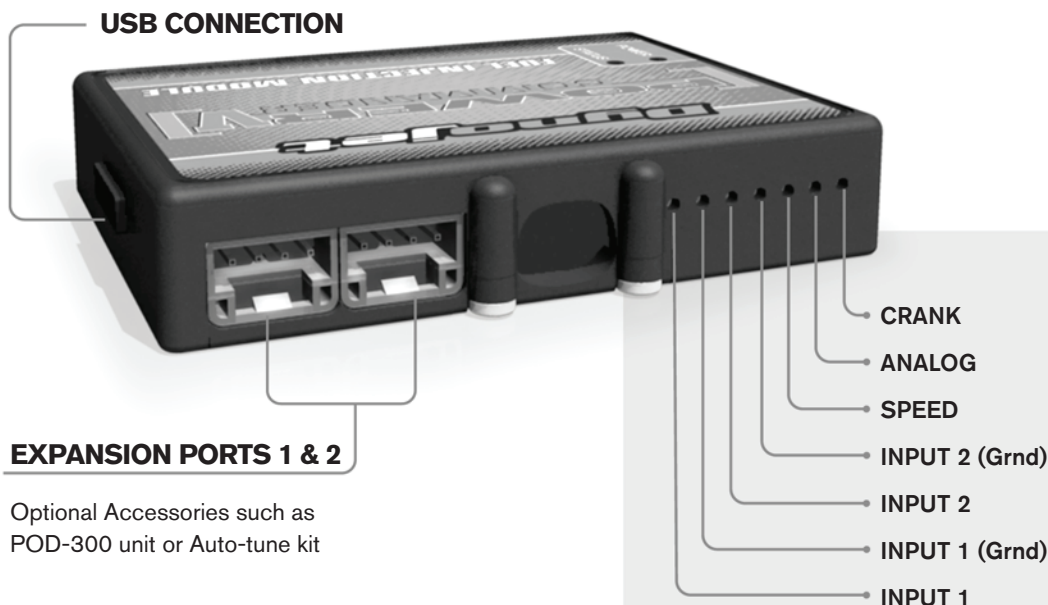
THE LATEST POWER COMMANDER  
SOFTWARE AND MAP FILES CAN BE  
DOWNLOADED FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**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



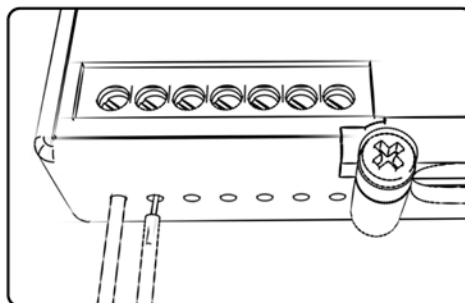
## EXPANSION PORTS 1 & 2

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-

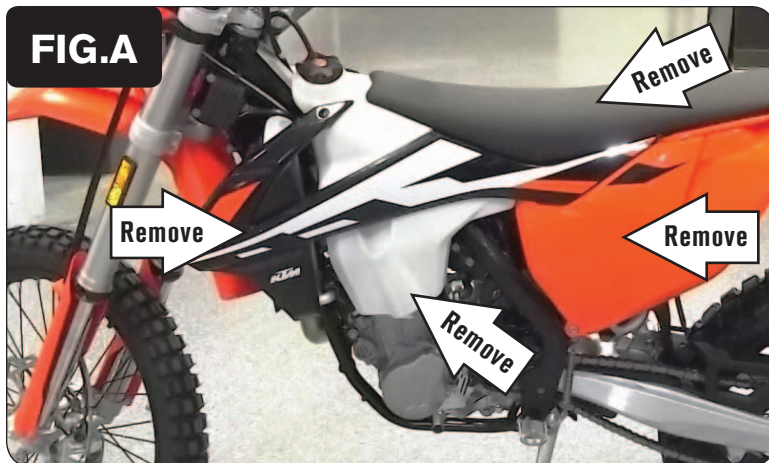
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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



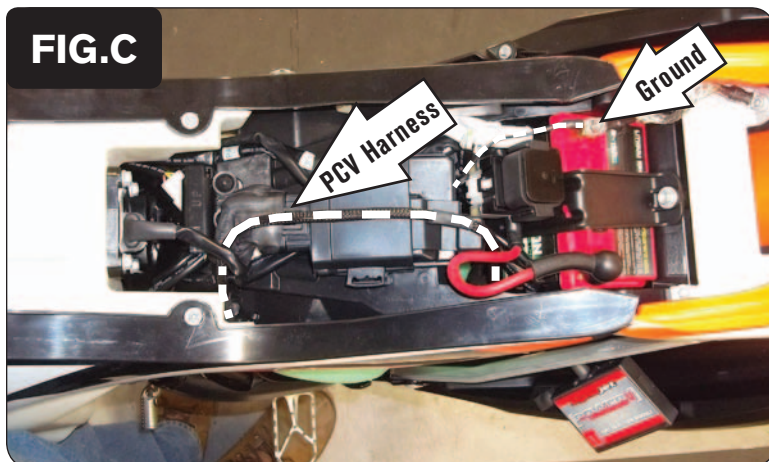
- 1 Remove the seat.
- 2 Remove the left and right side radiator shrouds.
- 3 Remove the fuel tank.
- 4 Remove the airbox cover on the left side (Fig. A).



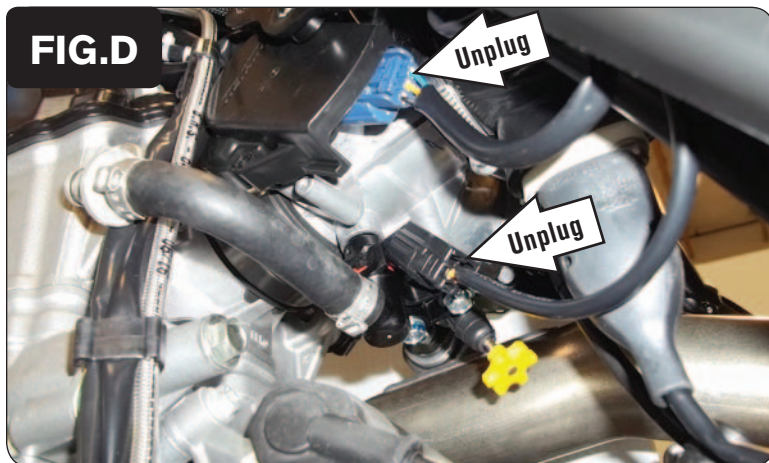
- 5 Use the supplied Velcro strips to secure the PCV module to the left side of the rear fender (Fig. B).

*Clean surfaces with the alcohol swab before attaching the Velcro.*

- 6 Route the PCV wiring harness upwards towards the battery staying inside of the frame rails.



- 7 Secure the PCV ground wire with the small ring terminal to the negative (-) side of the bike's battery (Fig. C).
- 8 Continue routing the PCV wiring harness towards the left side of the engine. The harness branch with four connectors will need to go to the left side of the throttle body. The branch with only two connectors will go to the top of the cylinder head.



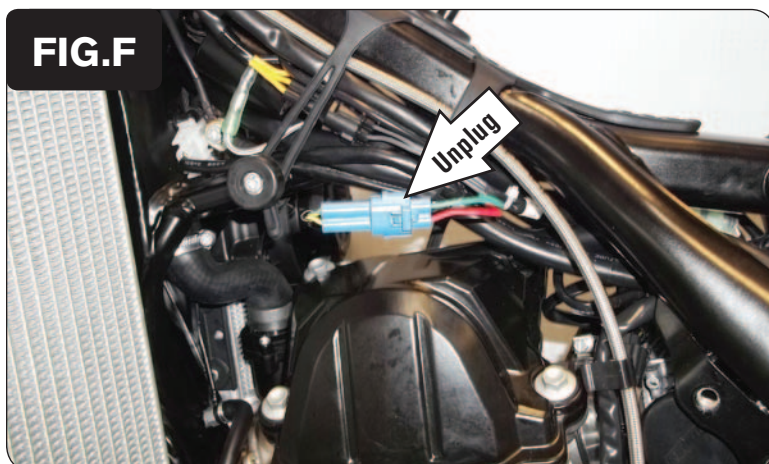
- 9 Unplug the Fuel Injector and the Throttle Position Sensor.

*There is a plastic cover over the TPS. If you remove the bottom screw on this cover it will help.*



- 10 Plug the pair of 3-pin connectors of the PCV wiring harness in-line of the TPS.
- 11 Plug the pair of 2-pin connectors of the PCV wiring harness in-line of the Fuel Injector (Fig. E).

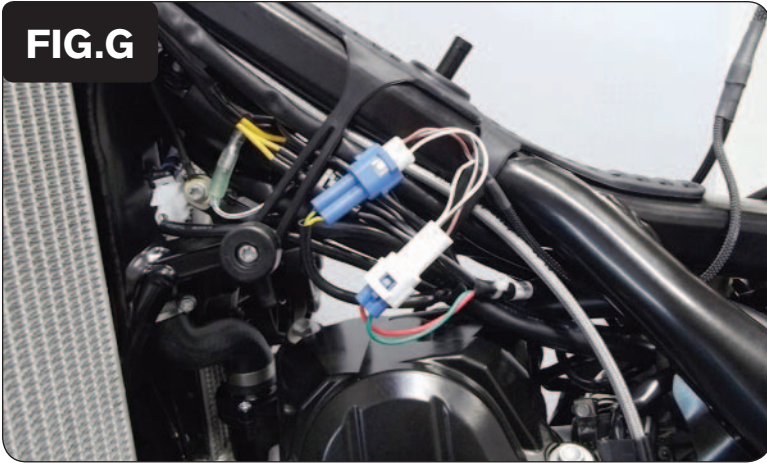
*Replace the TPS cover.*



- 12 Unplug the stock Crank Position Sensor connectors (Fig. F).

*This is a BLUE 2-pin connector pair located above the cylinder head.*

**FIG.G**



- 13 Plug the PCV wiring harness in-line of the stock Crank Position Sensor connectors (Fig. G).
- 14 Reinstall the fuel tank, bodywork, and the seat.