

# [POWER COMMANDER V]

## FUEL AND IGNITION

**2012-2016 KTM  
250/350/450/500 XCW**

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
- 3 Zip Ties

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

YOU CAN ALSO DOWNLOAD THE  
POWER COMMANDER SOFTWARE AND  
LATEST MAPS FROM OUR WEB SITE AT:  
[www.powercommander.com](http://www.powercommander.com)

**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**

**Dynojet**

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# POWER COMMANDER V INPUT ACCESSORY GUIDE

## ACCESSORY INPUTS

### Switch Input 1

The PCV has the ability to hold two different base maps. You can switch on the fly between these two base maps when you connect a switch to switch input 1. 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.

### Switch Input 2

The function of the switch input is configurable in the Control Center Software. You can use any open/close type switch. The polarity of the wires is not important.

### Speed

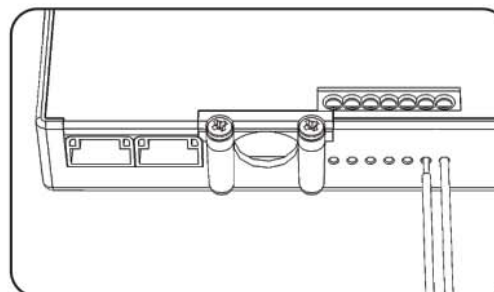
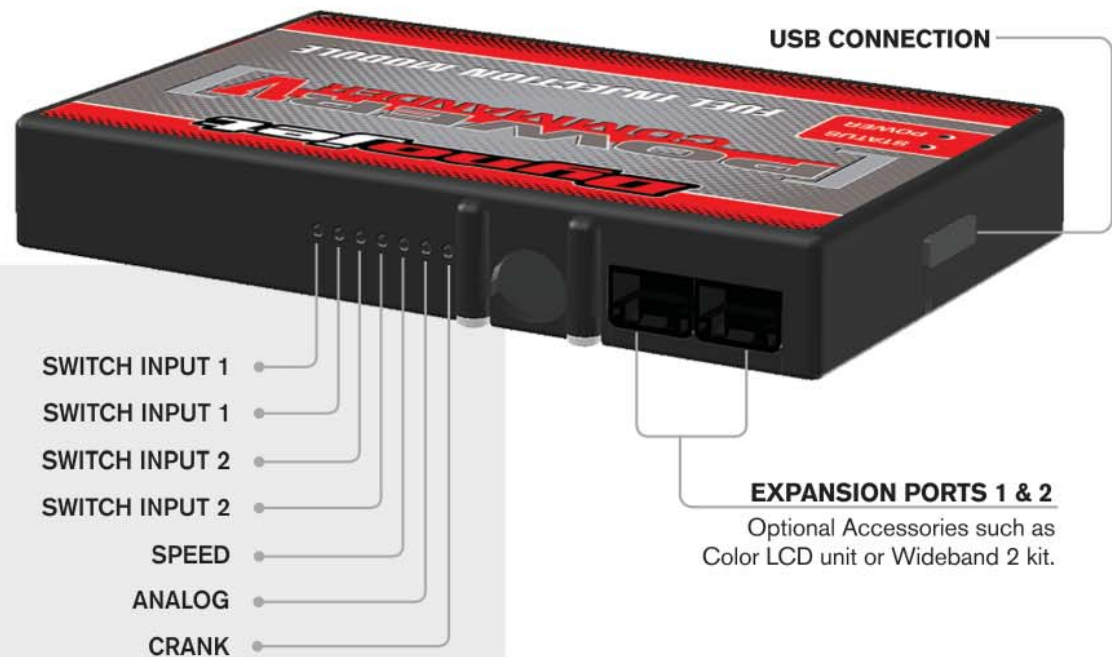
If your application has a speed sensor, you can tap into the signal side of the sensor and run a wire into this input.

### Analog

This input is for a 0-5v signals 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

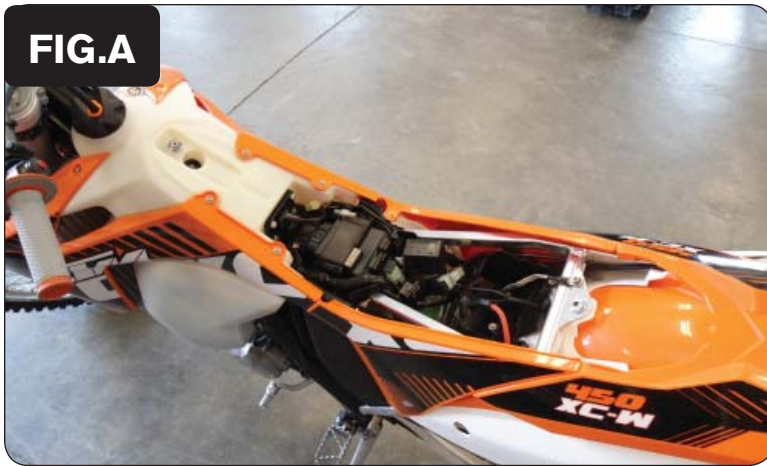
Do NOT connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



### PCV Wire Connections

1. Remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input.
2. Using a 22-24 gauge wire, strip about 10mm from its end.
3. Push the wire into the hole of the PCV until it stops and then tighten the screw.
4. Make sure to reinstall the rubber plug.

**Note:** If you tin the wires with solder it will make inserting them easier.



- 1 Remove the seat as shown in Figure A.



- 2 Remove the left side panel covering the air filter as shown in Figure B.



- 3 Temporarily position the PCV module in the battery box compartment while routing the PCV wiring harness down the left side of the bike, following along the underside of the left frame rail as shown in Figure C.
- 4 Using the supplied velcro, secure the PCV to the inside of the rear fender as shown in Figure C.

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

- 5 Using the supplied zip ties, secure the PCV harness to the factory cables.
- 6 Attach the ground wire ring lug from the PCV harness to the negative (-) terminal on the battery.





- 7 Remove the left and right side radiator shrouds.
- 8 Loosen the fuel tank by removing the bolt at the location shown in Figure D.
- 9 Prop the fuel tank upward so you can access the throttle body.

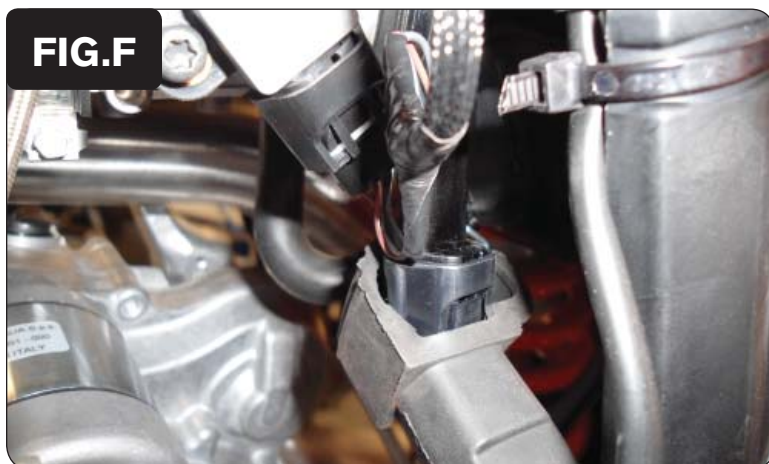
**WARNING:** Be very careful not to over stretch the fuel line.



- 10 Locate and unplug the stock wiring harness from the fuel injector as shown in Figure E.

The fuel injector is located at the front of the throttle body. This connector is difficult to reach and is not clearly visible in Figure E. Using a curved pair of needle-nose pliers may help to unplug it from the fuel injector.

- 11 Attach the PCV connectors to the fuel injector and the stock wiring harness.



- 12 Locate and unplug the stock wiring harness from the Throttle Position Sensor (TPS).

The TPS is located on the left side of the throttle body. This connector has a rubber boot covering it that will need to be peeled back to unplug the connector.

- 13 Attach the PCV connectors to the bike's TPS and the stock wiring harness as shown in Figure F.



- 14 Locate and unplug the stock Crank Position Sensor (CPS) connectors as shown in Figure G.

This is a blue 2-pin connector pair located inside the left frame rail near the hydraulic clutch line.



- 15 Attach the PCV connectors to the stock CPS connectors as shown in Figure H.



- 16 Locate the Ignition Coil Spade connection under the tank near the front of the frame as shown in Figure I.
- 17 Attach the PCV wiring harness spades in between the stock connectors as shown in Figure I.
- 18 Using the supplied zip ties, secure the PCV wiring harness so it is free and clear of any hot or moving parts.
- 19 Reinstall the fuel tank, the radiator shrouds on both sides, the left side panel, and the seat.