

[POWER COMMANDER V]

2009 BMW G450X

Installation Instructions



Parts List

- 1 Power Commander
- 1 USB Cable
- 1 CD-ROM
- 1 Installation Guide
- 2 Power Commander Decals
- 2 Dynojet Decals
- 3 Zip ties

The ignition MUST be turned OFF before installation!

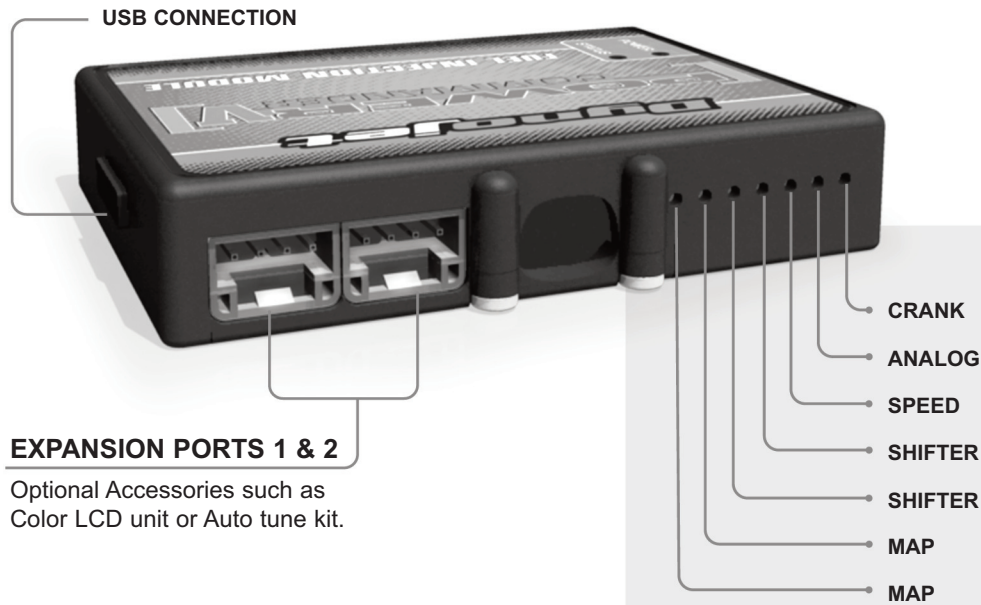
YOU CAN ALSO DOWNLOAD THE
POWER COMMANDER SOFTWARE AND
LATEST MAPS FROM OUR WEB SITE AT:
WWW.POWERCOMMANDER.COM

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



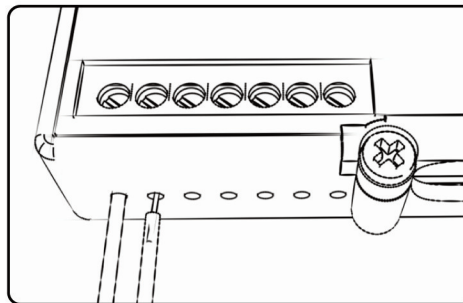
EXPANSION PORTS 1 & 2

Optional Accessories such as Color LCD 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 -

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.

Shifter-

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.

Speed-

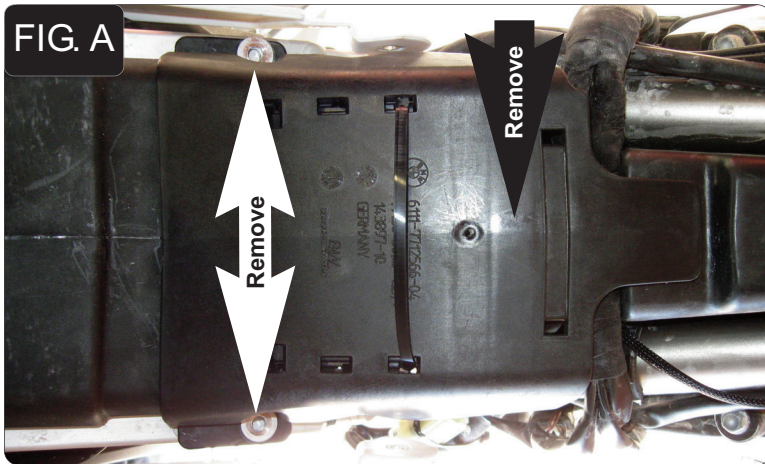
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

Analog-

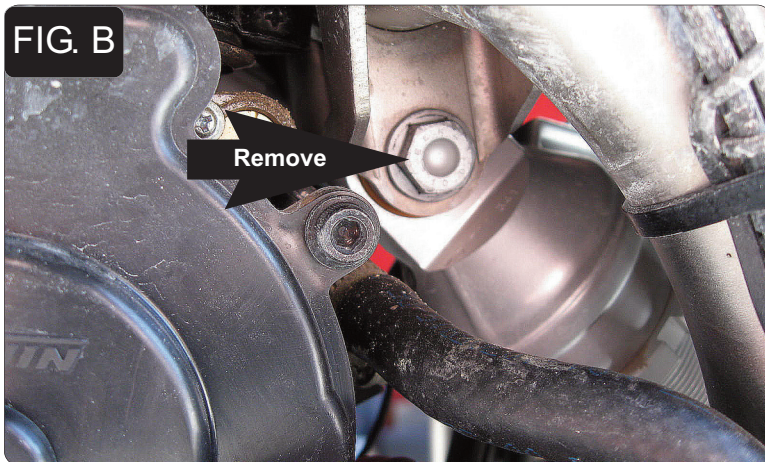
This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the control center software.

Crank-

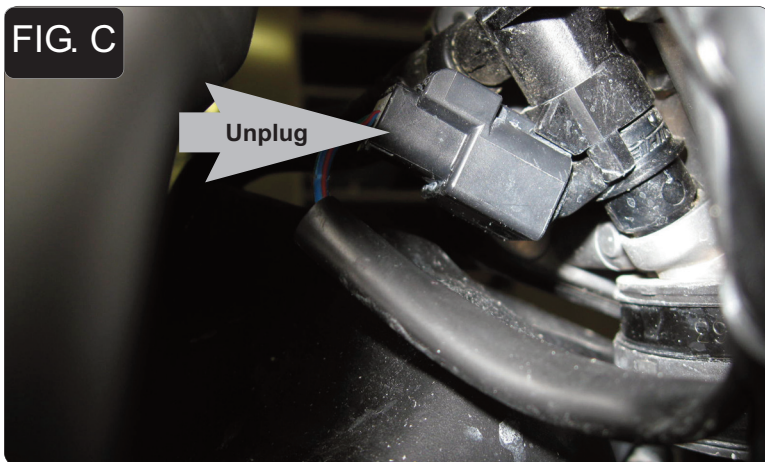
Do **NOT** connect anything to this port unless instructed to do so by Dynojet. It is used to transfer crank trigger data from one module to another.



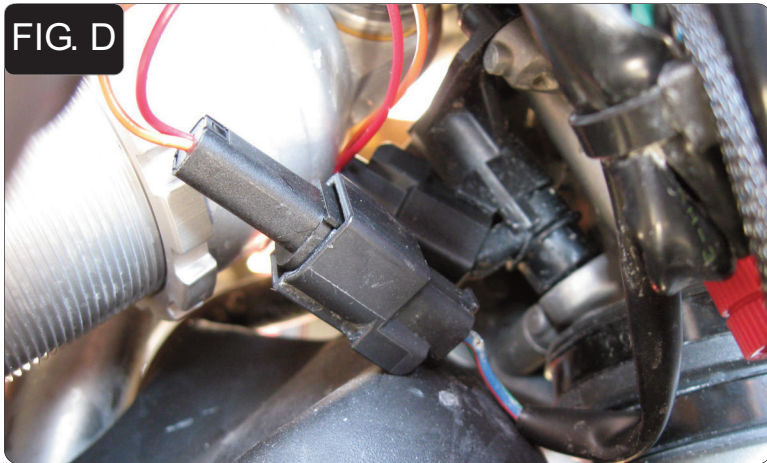
- 1 Remove the seat.
- 2 Remove the radiator shrouds
- 3 Remove the plastic cover that holds the ECM (Fig. A).



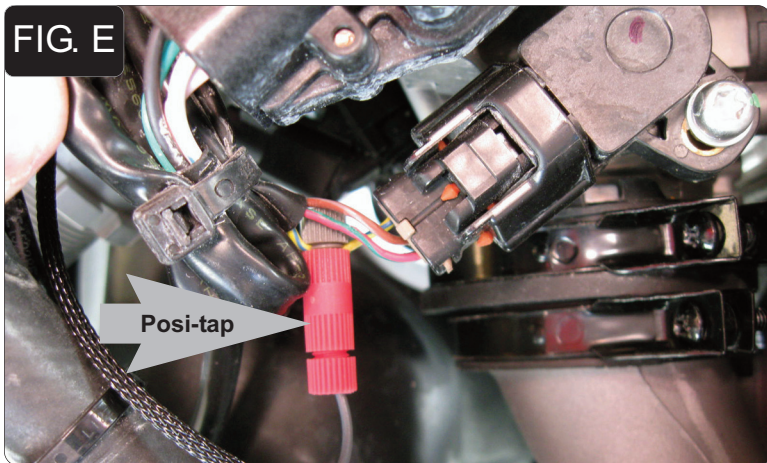
- 4 Place the motorcycle on a stand that supports the rear wheel off of the ground.
- 5 Remove the rear shock upper mount bolt (Fig. B).
This allows access to the fuel injector harness



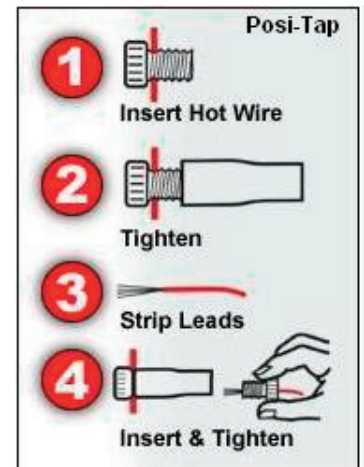
- 6 Unplug the stock wiring harness from the injector (Fig. C).



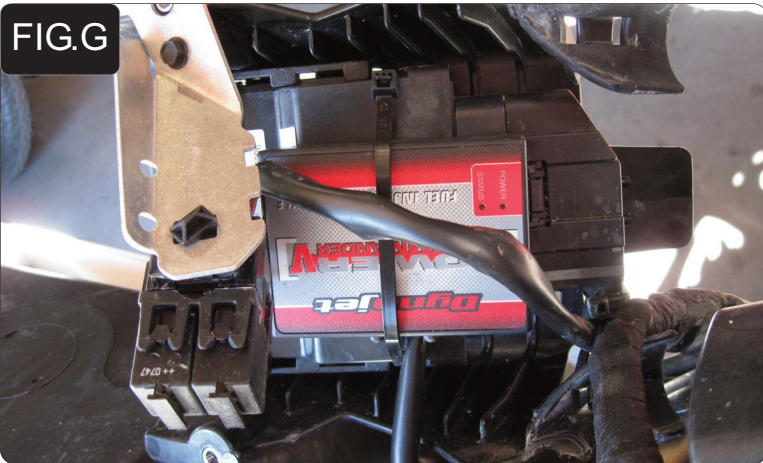
- 7 Plug the PCV harness in-line of the stock wiring harness and fuel injector (Fig. D).



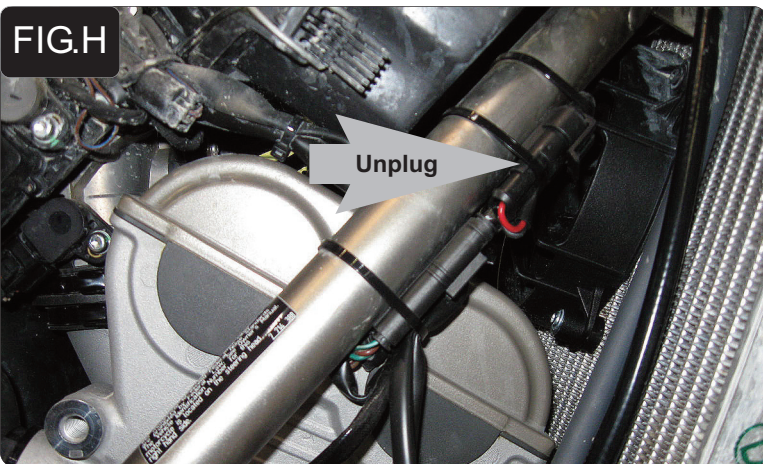
- 8 Locate the Throttle Position Sensor on the right hand side of the bike.
- 9 Use the supplied Posi-tap to secure the GRAY wire of the PCV to the YELLOW/BLUE wire of the stock TPS harness (Fig. E).



- 10 Route the ground wire of the PCV along the right side of the bike following the frame tube (Fig. F). Secure the PCV harness to the stock harness using the supplied zip tie.
- 11 Attach the PCV harness to the negative side of the battery.



- 12 Secure the PCV to the face of the stock ECU using the supplied zip tie (Fig. G)
- 13 Reinstall the ECU mounting bracket in place.



- 13 Locate the O2 sensor and unplug it from the main wiring harness (Fig.H)
*This connector is located on the right side of the bike near the radiator fan.
The stock O2 sensor will no longer be connected to anything.*