[POWER COMMANDER V]

2009-2010 Suzuki M109R / C109R

Installation Instructions

PARTS LIST

1	Power Commander
1	USB Cable
1	CD-ROM
1	Installation Guide
2	Power Commander Decals
2	Dynojet Decals
2	Velcro
1	Alcohol swab

THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!

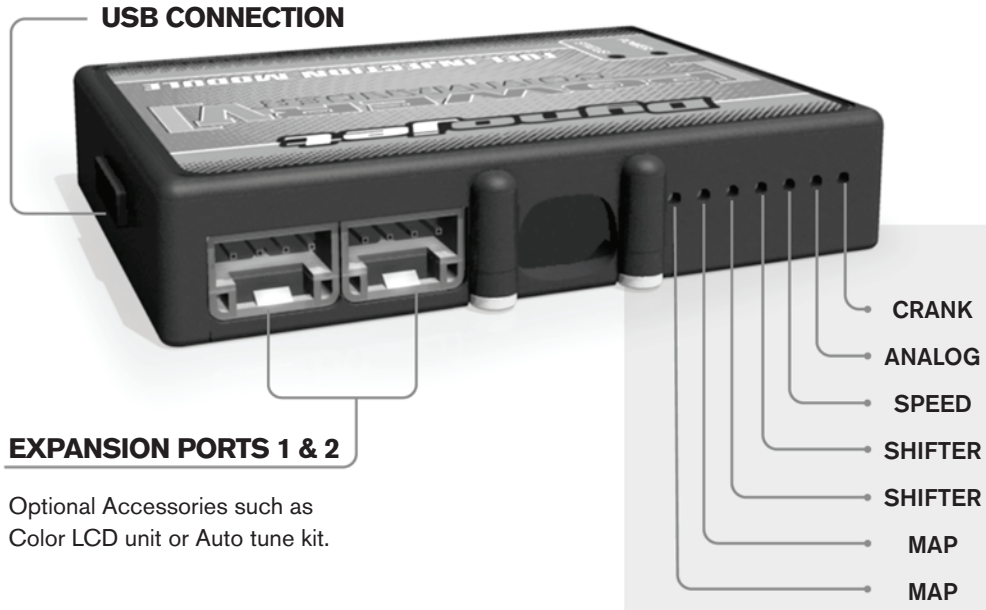
YOU CAN ALSO DOWNLOAD THE POWER COMMANDER SOFTWARE AND LATEST MAPS FROM OUR WEB SITE AT: www.powercommander.com

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

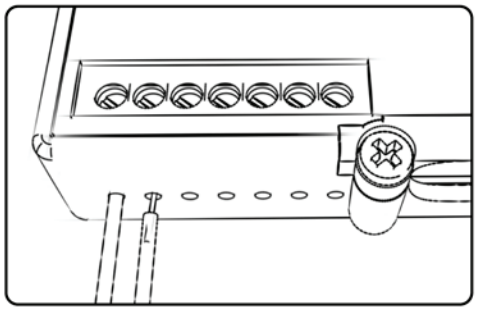


Optional Accessories such as
Color LCD unit or Auto tune kit.

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 is 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

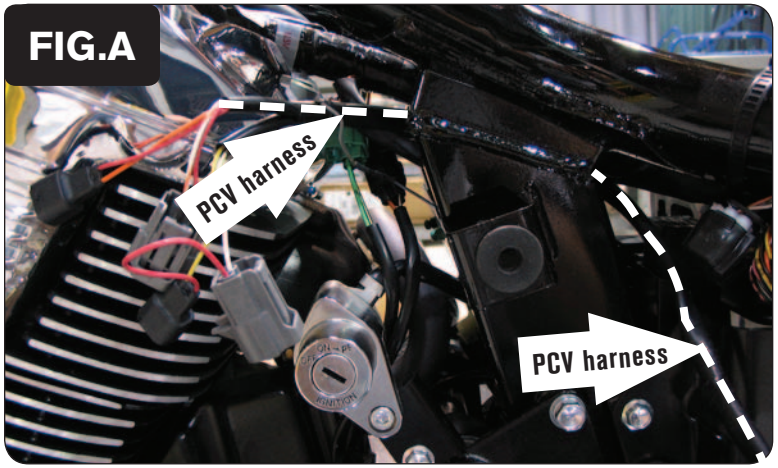
Map - The PCV has the ability to hold 2 different base maps. You can switch on the fly between these two base maps when you hook up a switch to the MAP inputs. You can use any open/close type switch. The polarity of the wires is not important. When using the Autotune kit one position will hold a base map and the other position will let you activate the learning mode. When the switch is "CLOSED" Autotune will be activated.

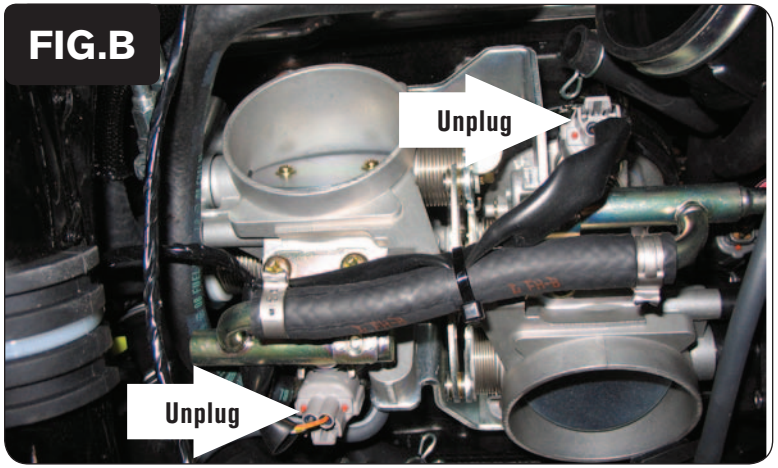
Shifter- These inputs are for use with the Dynojet quickshifter. Insert the wires from the Dynojet quickshifter into the SHIFTER inputs. The polarity of the wires is not important.

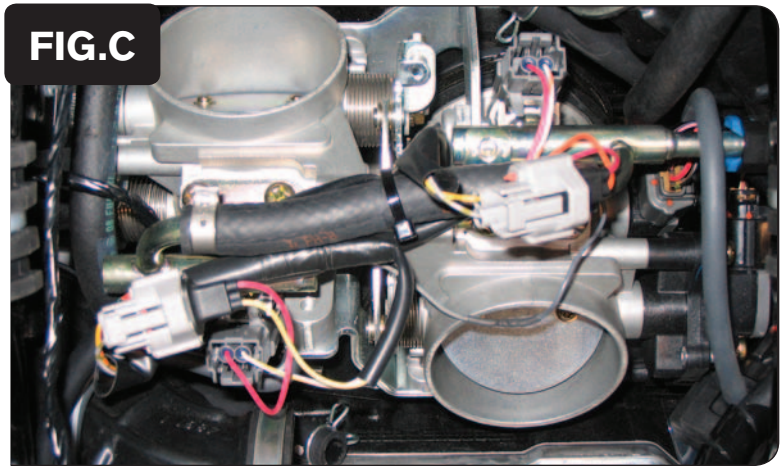
Speed- If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent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

2 Remove the fuel tank.

3 Remove the air box.

There are several hoses going into the air box. We recommend referring to the service manual for proper removal and installation.

4 Route the wiring harness from the PCV behind the left hand side of the frame and go towards the throttle bodies (Fig. A).

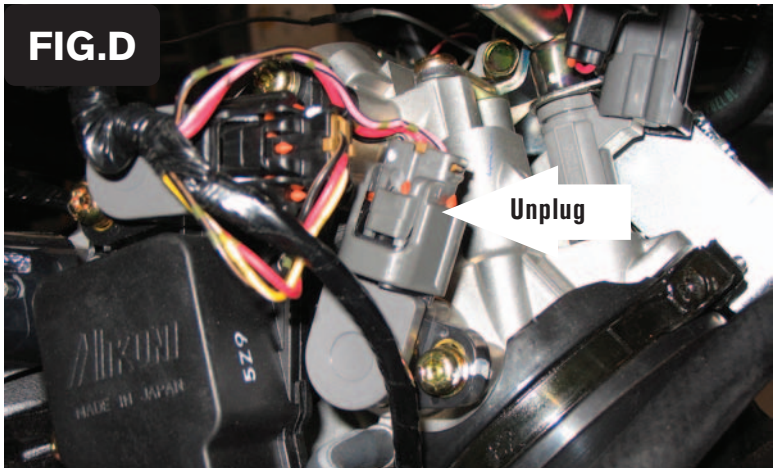
5 Unplug the stock wiring harness from each injector (Fig. B).

6 Plug the connectors from the PCV inline of the stock injectors and the stock wiring harness (Fig.C).

Orange - cylinder 1- front

Yellow - cylinder 2 - rear

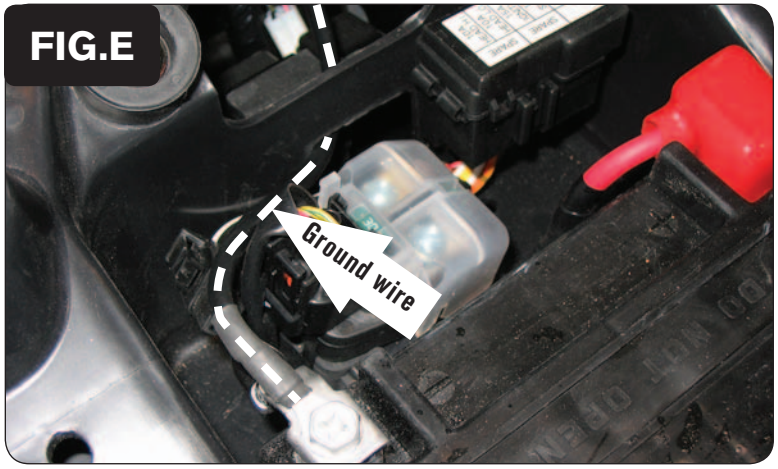
FIG.D



7 Unplug the Throttle Position Sensor connector (Fig. D). This connector is located on the right hand side of the throttle bodies and is GREY in color.

8 Plug the connectors from the PCV in-line of the stock TPS and wiring harness.

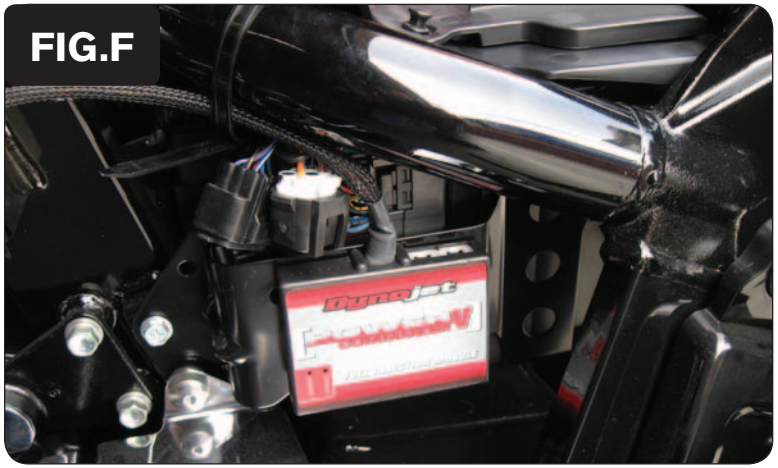
FIG.E



9 Route the ground wire from the PCV thru the front hole in the battery box.

10 Attach the ground wire from the PCV to the negative side of the battery (Fig. E).

FIG.F



11 **FOR THE M109R**

Install the PCV to the face of the metal bracket under the left hand sidecover using the supplied velcro.

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


FIG.G

12 **FOR THE C109R**

Install the PCV to the face of the ECU using the supplied velcro.

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

Speed input - PINK wire of BLACK 3 pin connector. Sensor is located behind the left sidecover near the ignition switch.

Temperature input - BLU/BLK wire from temp sensor behind right side dummy air box cover.

12v source for Auto tune - BROWN wire in 6 pin connector for tail light. Located under the driver seat.