

[POWER COMMANDER V]

FUEL AND IGNITION

2003-2006 Suzuki SV650

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!**

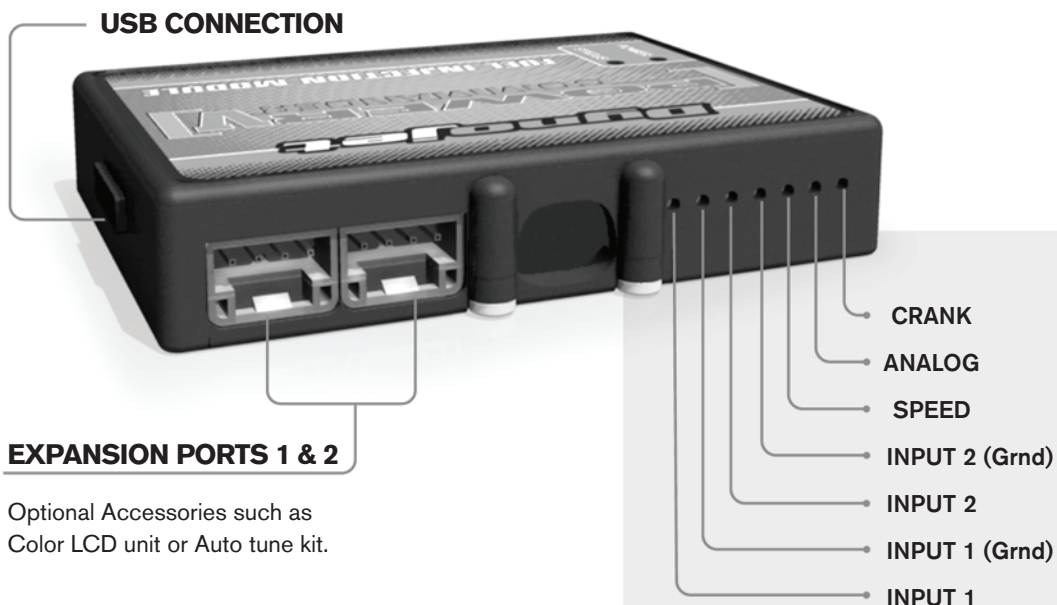
YOU CAN ALSO DOWNLOAD THE
POWER COMMANDER SOFTWARE AND
LATEST MAPS FROM OUR WEB SITE AT:
www.powercommander.com

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

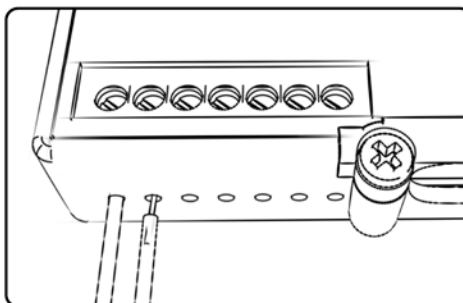


Optional Accessories such as
Color LCD unit or Auto tune kit.

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 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-

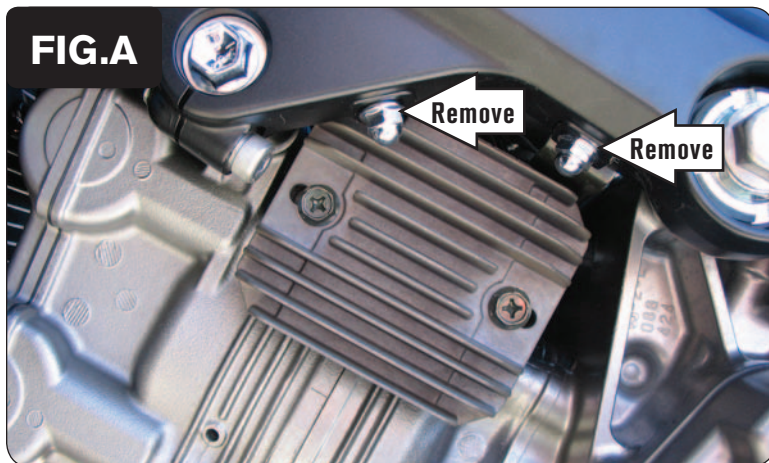
If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent 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 both seats.
- 2 Unbolt and prop the front of the fuel tank using the Suzuki prop rod stored in the tail.
- 3 Remove the regulator/rectifier bracket from the frame (Fig. A).
- 4 Place the PCV module in the tail section and route the harness forward following inside the left side frame rail.

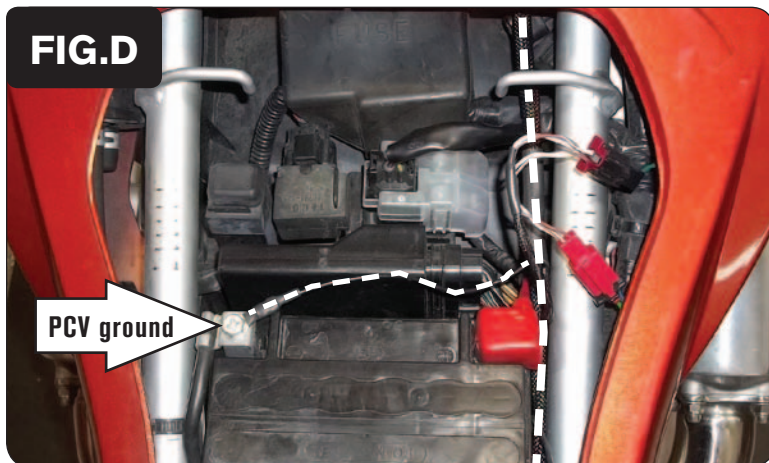
To connect the PCV wiring harness to the Ignition Coils we have found that it is easiest to unbolt the coils from the frame which the installation guide pictures will reflect.



- 5 Locate and unplug the stock Crank Position Sensor connectors (Fig. B).
This is a BLACK 2-pin connector pair located just left of the bike's battery.



- 6 Plug the pair of RED 2-pin connectors on the PCV wiring harness in-line of the stock Crank Position Sensor connectors (Fig. C).

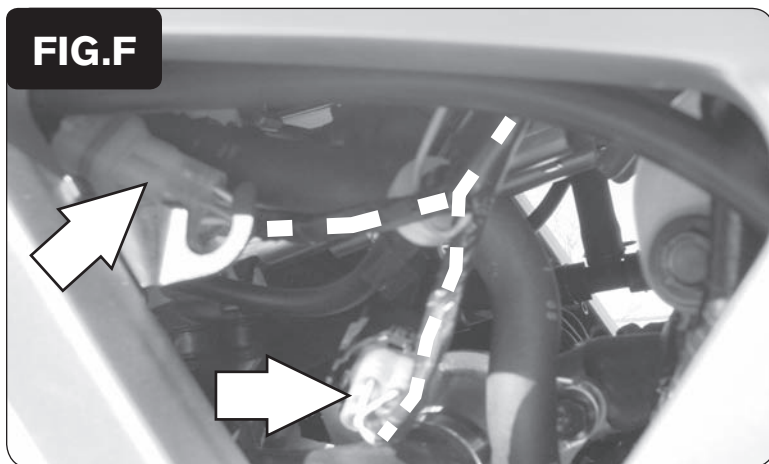


- 7 Secure the PCV ground wire with the small ring lug to the negative (-) terminal of the bike's battery (Fig. D).



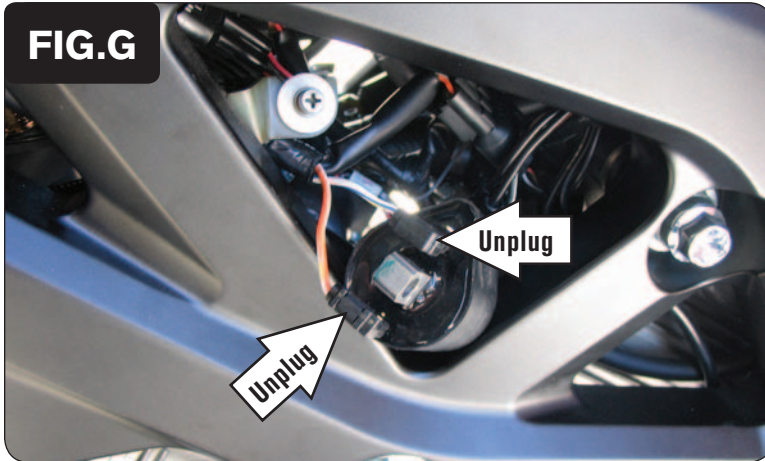
- 8 Locate and unplug the stock sub-harness connector for the bike's Fuel Injectors (Fig. E).

This is a BLACK 6-pin connector located to the left side of the engine, just inside of the frame rail.



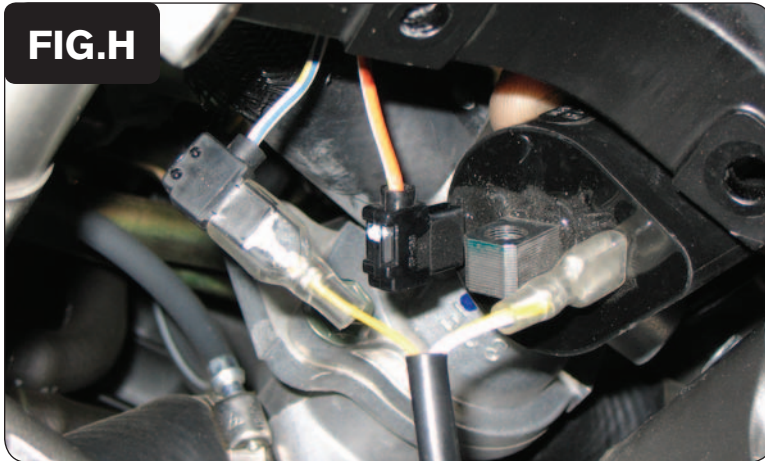
- 9 Plug the pair of 6-pin connectors of the PCV wiring harness in-line of the stock Fuel Injector sub-harness connectors (Fig. F).

FIG.G



- 10 Route the PCV wiring harness branch that has RED/WHITE, BLUE, and WHITE/BLUE wires with spade connectors towards the rear cylinder Ignition Coil on the left hand side of the bike.
- 11 Unplug both of the stock wires from this Ignition Coil (Fig. G).

FIG.H

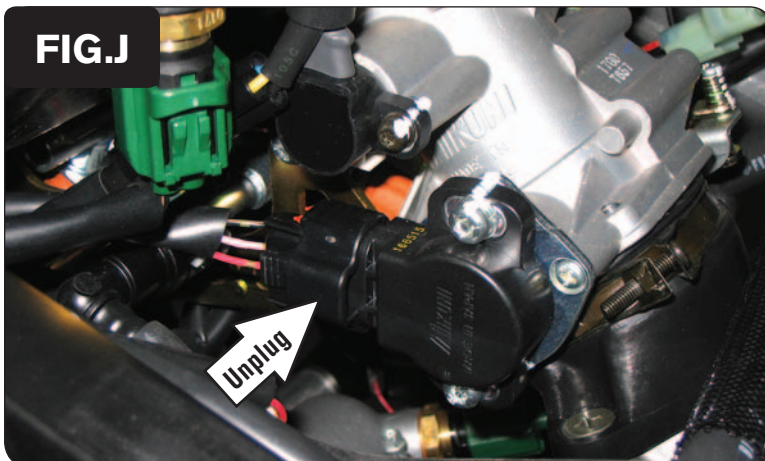


- 12 Plug the pair of RED/WHITE wires on the PCV wiring harness in-line of the Ignition Coil and the stock ORANGE/WHITE wire.
- 13 Plug the BLUE PCV wire directly to the stock WHITE/BLUE wire and the WHITE/BLUE PCV wire to the Ignition Coil (Fig. H).

Slide the insulators on these spade connections over any exposed metal.

Bolt this Ignition Coil back to the frame after making the connections if it has been loosened.

FIG.J



- 14 Locate and unplug the Throttle Position Sensor (Fig. J).

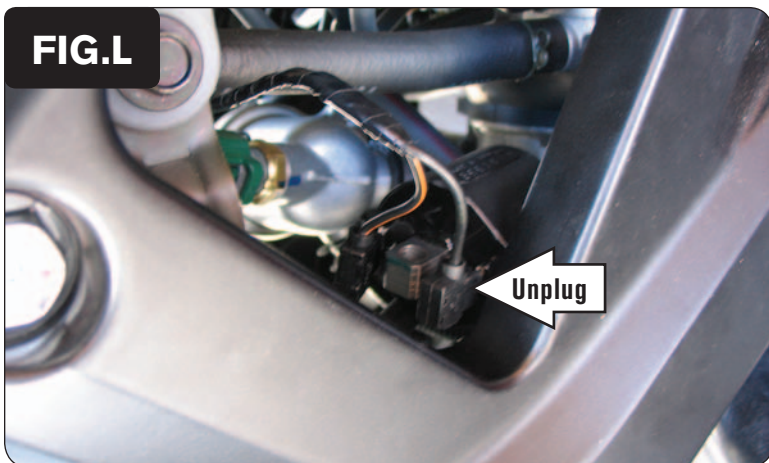
This is a BLACK 3-pin connector. The TPS is located on the left side of the throttle body.

FIG.K



- 15 Plug the pair of 3-pin connectors on the PCV wiring harness in-line of the Throttle Position Sensor and the stock wiring harness (Fig. K).

FIG.L



- 16 Locate and unplug the stock BLACK wire from the front cylinder Ignition Coil on the right hand side of the bike (Fig. L).

FIG.M

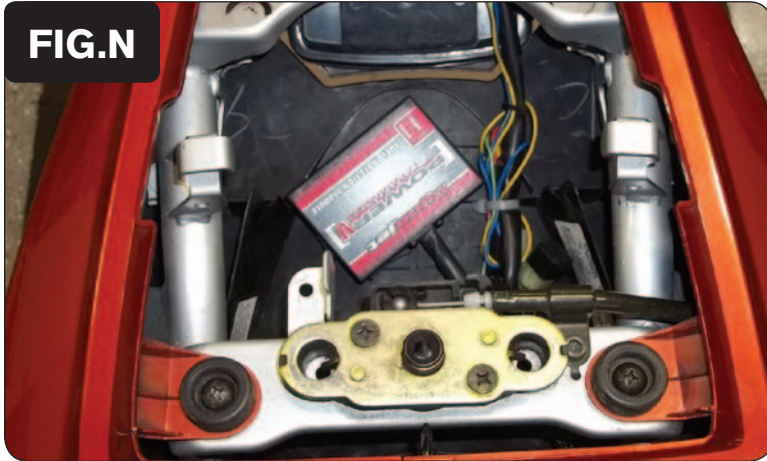


- 17 Plug the PCV GREEN wire directly to the stock BLACK Ignition Coil wire.
18 Plug the PCV WHITE/GREEN wire directly to the Ignition Coil.

Slide the insulators on these spade connections over any exposed metal.

Bolt this Ignition Coil back to the frame after making the connections if it has been loosened.

FIG.N



- 19 Using the supplied Velcro, secure the PCV module in the tail section (Fig. N).
Clean both surfaces with the supplied alcohol swab prior to applying the Velcro adhesive.
- 20 Reinstall the regulator/rectifier and bracket. Lower and resecure the fuel tank. Reinstall the seats.