POWER COMMANDER 6

Installation Guide for: PC6-20049

Model Coverage: 2017-2022 Suzuki SV650

PARTS LIST

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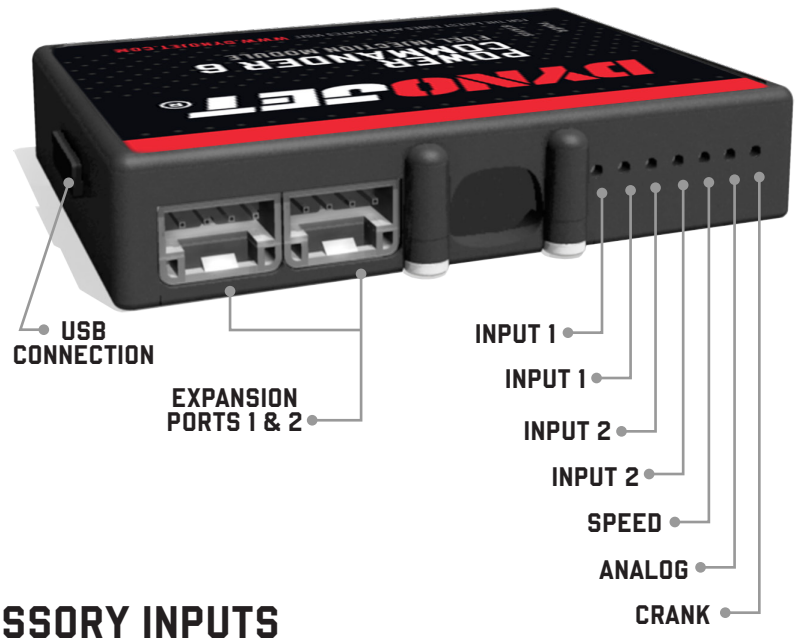
1 INSTALLATION GUIDE	2 VELCRO STRIPS
1 USB CABLE	1 ALCOHOL SWAB
2 DYNOJET DECALS	

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION.
THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION.

IPC6-20049.01

INPUT ACCESSORY GUIDE



OPTIONAL ACCESSORY INPUTS

Map (Input 1 or 2) The PC6 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.

Shifter (Input 1 or 2) Used for clutch-less full throttle upshifts. Insert the wires from the Dynojet quick shifter into either Input 1 or Input 2. The polarity of the wires is not important. Set to 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 quick shifter.

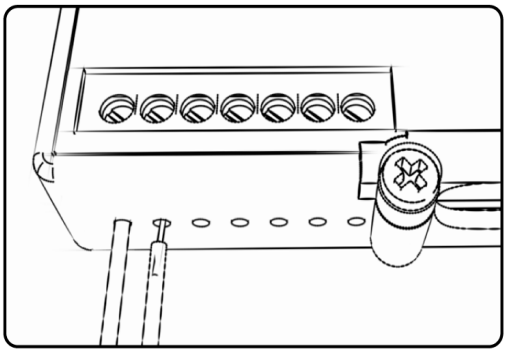
Analog This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the Power Core software.

Launch You can connect a wire to either Input 1 or Input 2 and then the other end to a switch. This switch when engaged (continuity) will only allow the RPM to be raised to a certain limit (set in the software). When released, you will have full RPM.

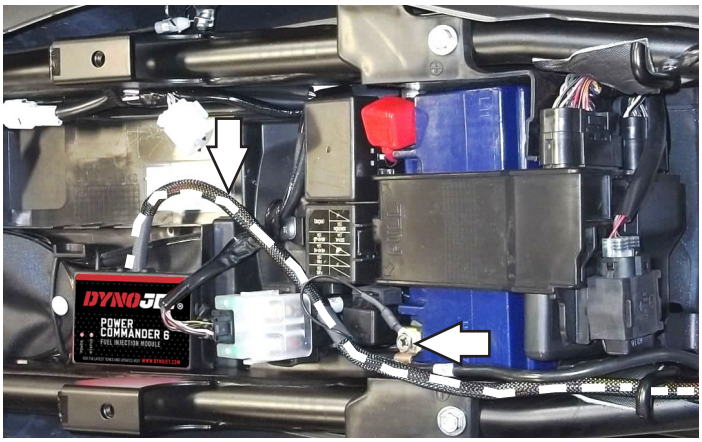
WIRE CONNECTIONS

To input wires into the PC6 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 PC6 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.



INSTALLING THE POWER COMMANDER 6



1 Remove the seat, the plastics below the seat and fuel tank on both sides of the bike, and the fuel tank.

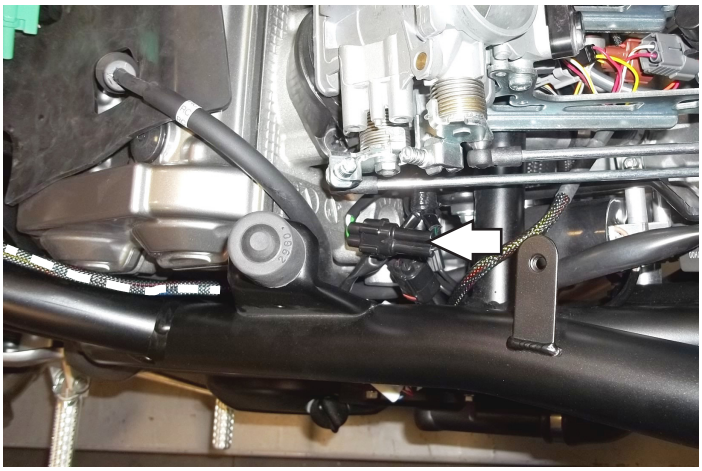
2 Remove the air box.

3 Store the PC6 module in the tail section below the seat.

Use the supplied Velcro to secure the module. Clean both surfaces with the supplied alcohol swab prior to applying the Velcro.

4 Route the PC6 harness from the tail section towards the engine following along the right side frame rail.

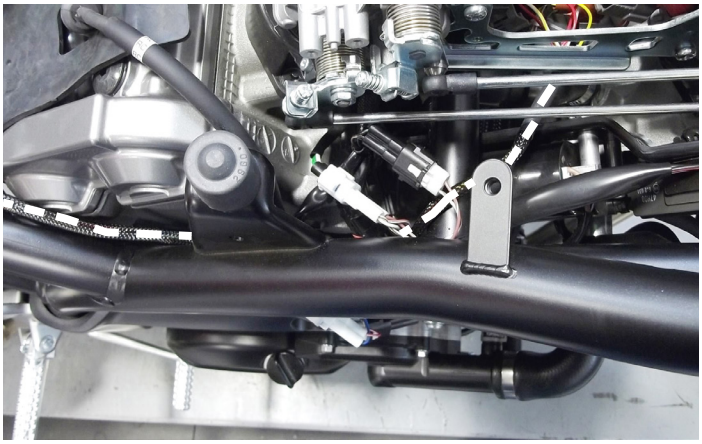
5 Secure the ground (BLACK) wire with the small ring lug to the negative (-)terminal of the bike's battery.



6 Unplug the stock Crank Position Sensor connectors.

This is a BLACK 2-pin connector pair. It is located to the right of the rear cylinder throttle body.

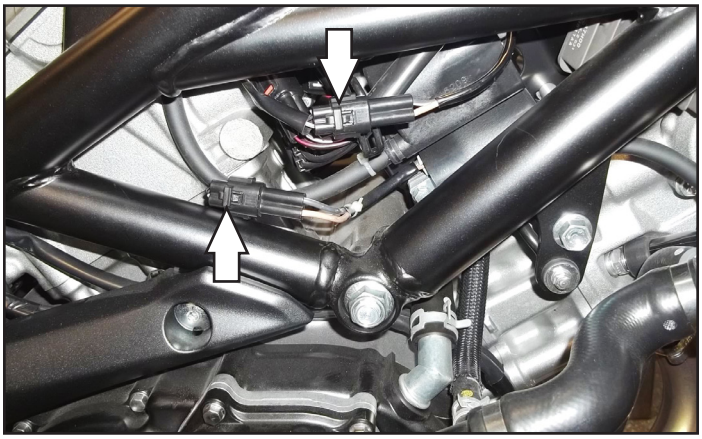
The stock wire colors in this pair of stock connectors is solid GREEN and solid WHITE on one connector, and BLACK/BLUE and BLACK/BROWN on the other connector.



7 Plug the pair of PC6 connectors with BROWN colored wires in-line of the stock Crank Position Sensor connectors.

8 Locate and unplug both of the stock connector pairs for both of the bike's Ignition Coils.

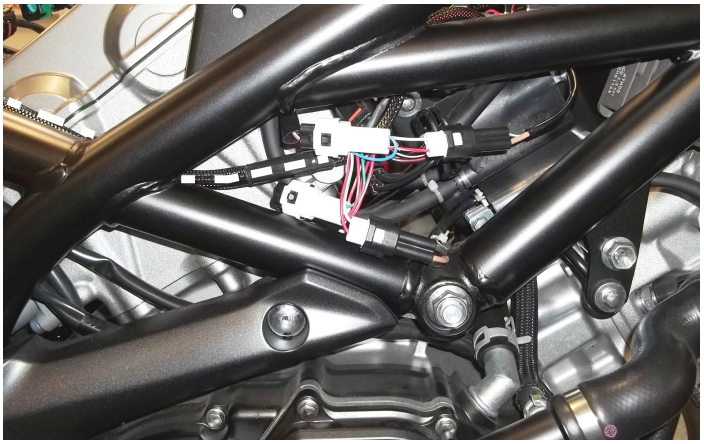
These are both BLACK 2-pin connector pairs. They are both located on the right side of the engine. You can trace the wires from the ignition coils to these connectors.



9 Plug the pair of PC6 connectors with GREEN colored wires in-line of the stock Ignition Coil connectors for the front cylinder.

10 Plug the pair of PC6 connectors with BLUE colored wires in-line of the stock Ignition Coil connectors for the rear cylinder.

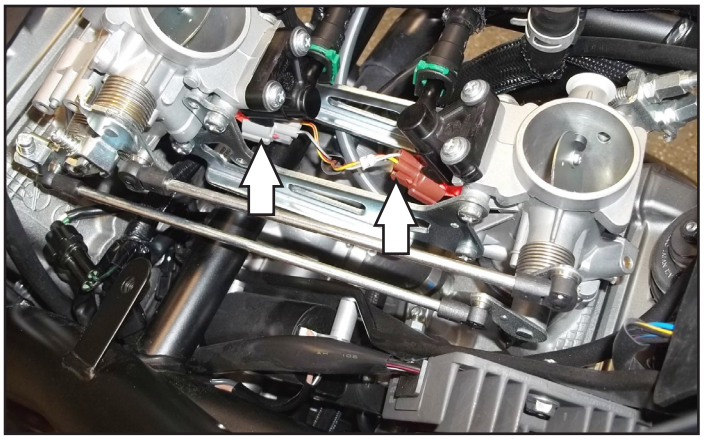
11 Continue routing the rest of the PC6 wiring harness towards the left side of the bike. Go between the cylinders and beneath the throttle linkage of the two throttle bodies. Make sure the PC6 wiring harness does not interfere with throttle linkage movement.



12 Unplug the stock wiring harness from both of the bike's Fuel Injectors.

The front cylinder fuel injector has a BROWN connector.

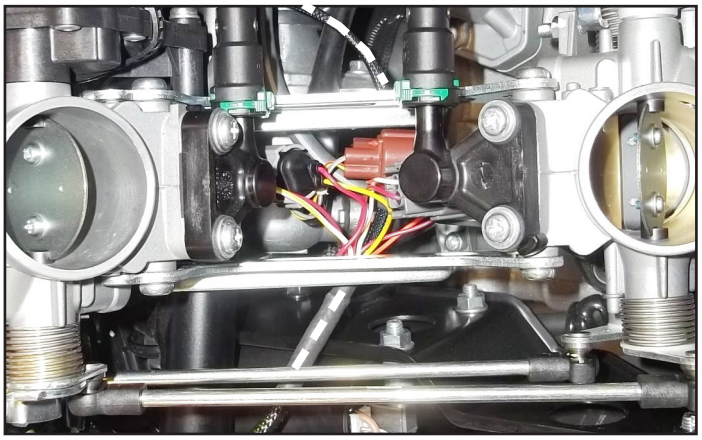
The rear cylinder fuel injector has a GREY connector.

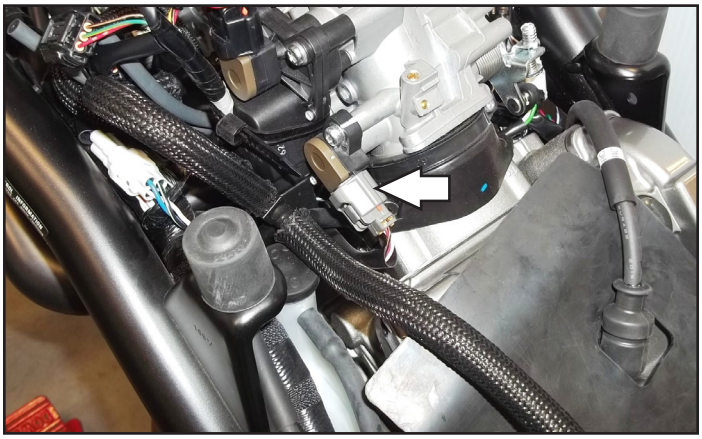


13 Plug the pair of PC6 wiring harness connectors with ORANGE colored wires in-line of the FRONT cylinder fuel injector and the stock wiring harness.

14 Plug the pair of PC6 wiring harness connectors with YELLOW colored wires in-line of the REAR cylinder fuel injector and the stock wiring harness.

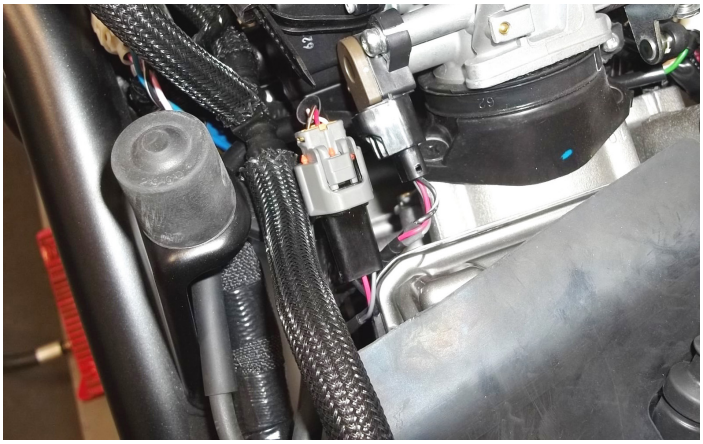
15 Continue routing the PC6 wiring harness branch with the pair of 3-pin connectors rearward and towards the left side of the rear throttle body.





16 On the left side of the rear throttle body, locate and unplug the lower primary Throttle Position Sensor.

This is the one with the GREY connector. Do NOT unplug the upper secondary TPS with the stock BLACK connector.



17 Plug the pair of 3-pin PC6 connectors in-line of the lower primary Throttle Position Sensor and the stock wiring harness.

18 Reinstall the air box, the fuel tank, bodywork, and the seat.

Download the latest map files from our web site at dynojet.com/tunes.

Optional inputs:

Gear Voltage - PINK wire of the Gear Position Sensor. This sensor is located on the left side of the bike below the front sprocket.

PUSH THE LIMIT

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