

POWER COMMANDER 6

Installation Guide for: PC6-20016

Model coverage: 2006-2020 Suzuki M109R / C109R

PARTS LIST

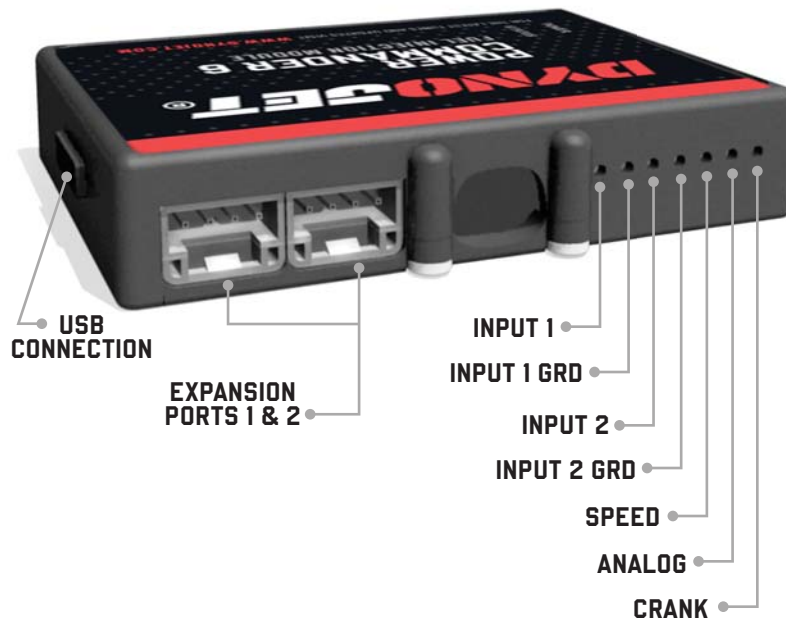


- | | |
|----------------------|--------------------------|
| 1 POWER COMMANDER 6 | 2 POWER COMMANDER DECALS |
| 1 INSTALLATION GUIDE | 2 VELCRO STRIPS |
| 1 USB CABLE | 1 ALCOHOL SWAB |
| 2 DYNOJET DECALS | 1 ZIP TIE |

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



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** Not needed on Harley applications as the speed signal wire is built into the main wiring harness of the PC6.
- 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.

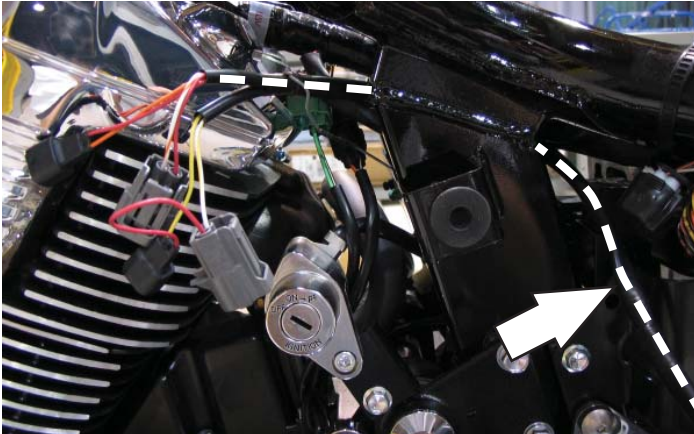
WIRE CONNECTIONS

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

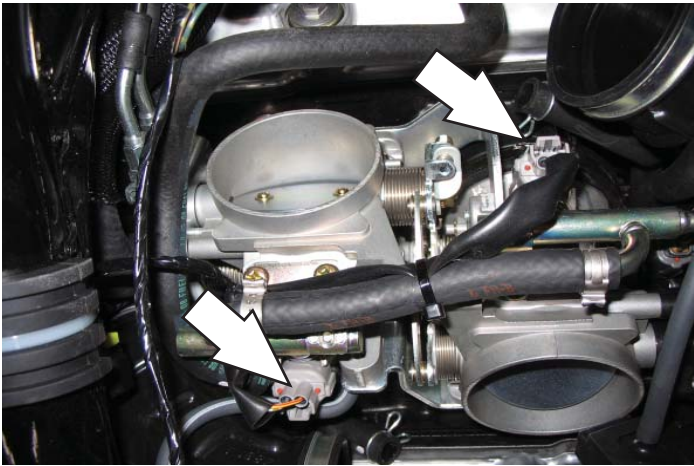


ROUTE HARNESS

- 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 PC6 behind the left hand side of the frame and go towards the throttle bodies.



UNPLUG INJECTORS

- 5 Unplug the stock wiring harness from each fuel injector.



CONNECT TO INJECTORS

- 6 Plug the connectors from the PC6 in-line of the fuel injectors and the stock wiring harness connectors.

ORANGE - cylinder 1- front

YELLOW- cylinder 2 - rear

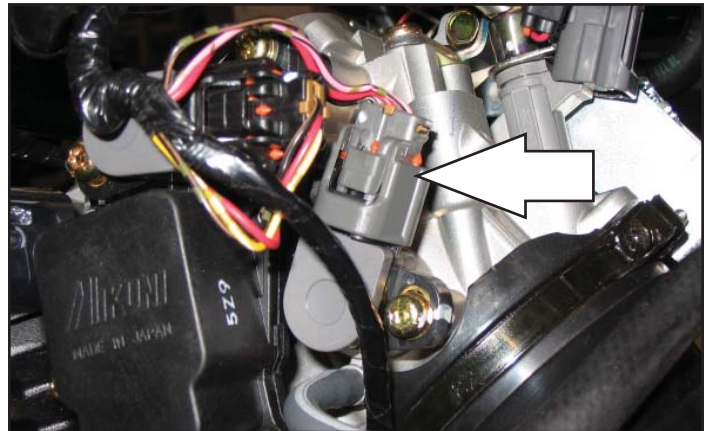
- 7 Using the supplied zip-tie, secure the PC6 wiring harness to the high pressure fuel tube between the throttle bodies such that the PC6 harness will not interfere with reinstalling the intake plenum or interfere with throttle blade movement.

INSTALLING THE POWER COMMANDER 6

- 8 Unplug the Throttle Position Sensor connector.

This connector is located on the right hand side of the throttle bodies and is GREY in color. Do NOT unplug the BLACK 3-pin connector for the upper secondary throttle plates.

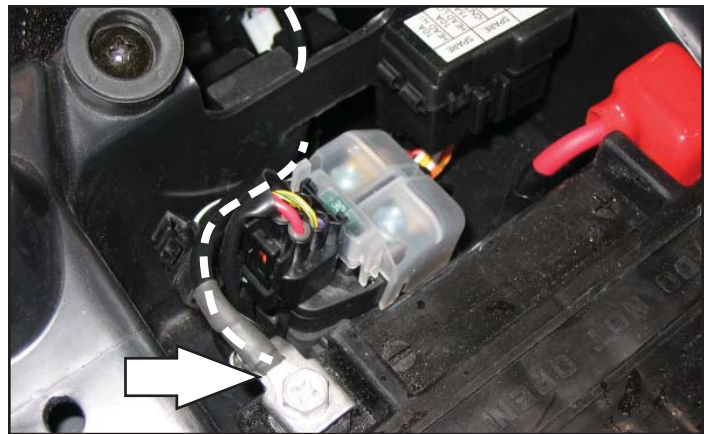
- 9 Plug the connectors from the PC6 in-line of the TPS and the stock wiring harness.



CONNECT TO TPS

- 10 Route the ground wire from the PC6 thru the front hole in the battery box.

- 11 Secure the ground wire from the PC6 wiring harness with the small ring lug to the negative (-) terminal of the bike's battery.



ATTACH TO GROUND

FOR THE M109R

- 12 Install the PC6 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 the Velcro.



INSTALL PC6

INSTALLING THE POWER COMMANDER 6



INSTALL PC6

FOR THE C109R

- 12 Install the PC6 to the face of the ECU using the supplied Velcro.

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

- 13 Reassemble the bike.

When reinstalling the intake plenum, be sure the rubber boots are completely over and around the top of the throttle bodies. This piece can be very difficult going back on.

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

Optional inputs:

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

Temperature input - BLUE/BLACK 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.



**PUSH
THE
LIMIT**

2191 MENDENHALL DRIVE, NORTH LAS VEGAS, NV 89081 - 800-992-4993 - DYNOJET.COM
© 2006-2022 DYNOJET RESEARCH ALL RIGHTS RESERVED