

POWER COMMANDER FC

2006-2014 Suzuki M109R/C109R

Installation Instructions



Parts List

- | | |
|---|--------------------|
| 1 | Power Commander FC |
| 1 | USB Cable |
| 1 | Installation Guide |
| 2 | Dynojet Decals |
| 2 | Velcro |
| 1 | Alcohol swab |

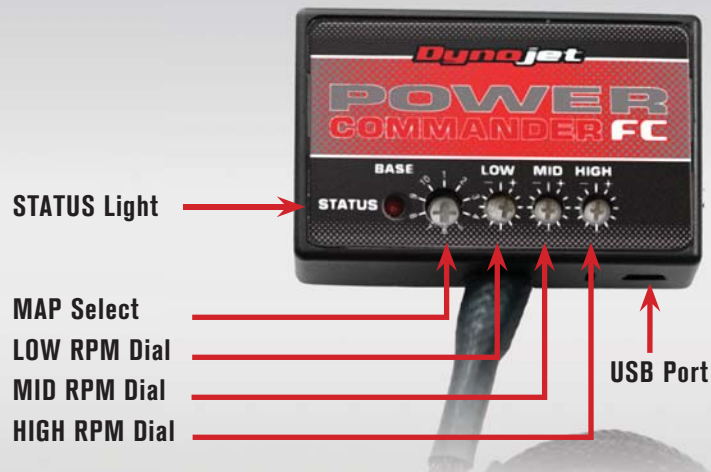
**THE IGNITION MUST BE TURNED
OFF BEFORE INSTALLATION!**

YOU CAN ALSO DOWNLOAD THE PCFC
CONTROL CENTER 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



Position	Note
Position 1	2006-2014 Suzuki M109R/C109R Stock exhaust Stock air filter

SELECTING THE MAP POSITION

The Dynojet Power Commander Fuel Controller (PCFC) comes loaded with up to ten maps. Using a #1 Phillips screwdriver, turn the map select dial to toggle between the loaded maps. Refer to the map position table for the maps included in your PCFC.

USING THE RPM RANGE DIALS

The Low, Mid, and High RPM Dials refer to the RPM range, in thirds, of your vehicle. Each dial allows +/- 10% fuel adjustment on top of what fuel changes are done in the map. With the dial facing straight up, there is no additional fuel change.

For example, if your vehicle revs to 6000 RPM:

- The low RPM dial will adjust 0-2000 RPM
- The mid RPM dial will adjust 2001-4000 RPM
- The high RPM dial will adjust 4001-6000 RPM

USING PCFC CONTROL CENTER

Take your tuning to the next level with the PCFC Control Center software.

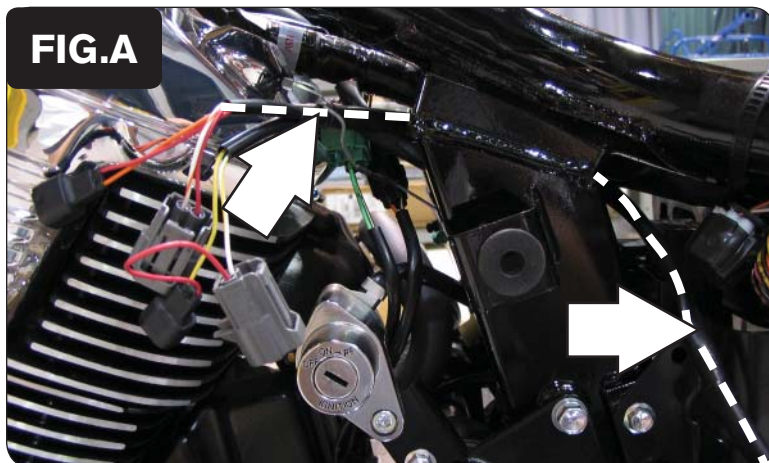
- 1 Using your web browser, navigate to www.powercommander.com.
- 2 Click Enter Race Ready.
- 3 Click Downloads.
- 4 Click Access Downloads for Power Commander FC.
- 5 Click the PCFC software Download button.
- 6 Open the zip folder.
- 7 Double-click the install file and follow the on-screen instructions to install the PCFC Control Center software. The PCFC Control Center software and maps will be stored in C:\Program Files\PCFC Control Center.
- 8 Return to the Downloads or Home page where you can enter the make, model, and year of your bike to check for and download additional maps.

LOADING ADDITIONAL MAPS

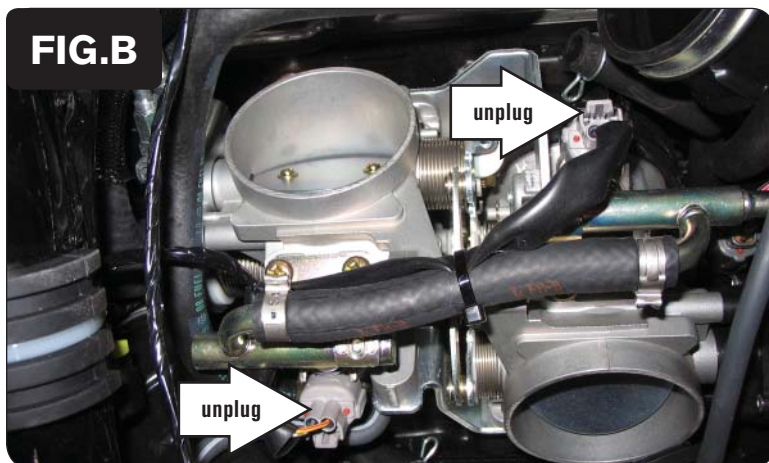
- 1 Connect the USB cable from the computer to the PCFC. Verify the cable is fully seated in the PCFC.
- 2 Run the Control Center software by double-clicking the program icon installed on your desktop or on your start menu.
- 3 Click Open Map File and select a map file.
- 4 Click Send Map. You can send the map to any of the ten map positions.

ALTERING MAPS USING SOFTWARE

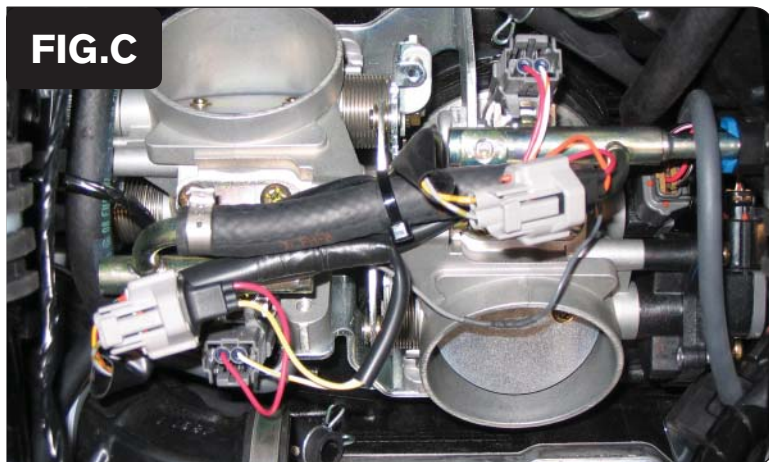
The values in the map represent a percentage of fuel change over stock. A value of 10 in the map indicates at that throttle position and RPM range the vehicle will be 10% richer than stock. If the value is -10, then it would be 10% leaner than stock. You have the ability to fine tune your fuel curve by altering these values. The Control Center software allows a value of +250 to -100 in each cell.



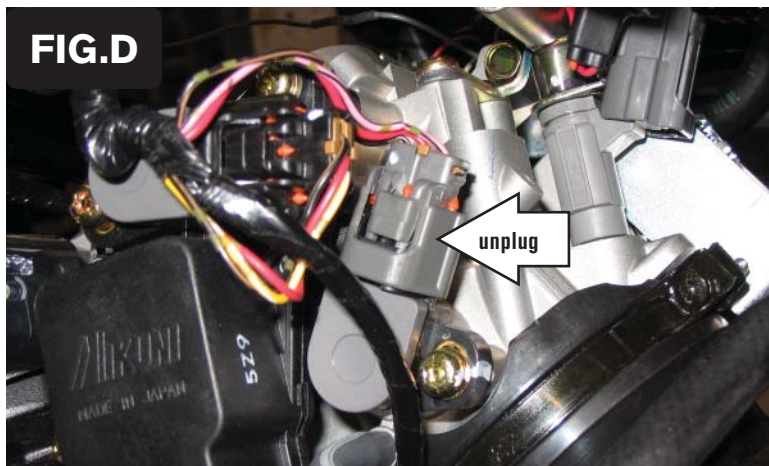
- 1 Remove the main seat and both side covers.
- 2 Remove the fuel tank.
- 3 Remove the air box.
There are several hoses going into the air box. We recommend referring to the service manual for proper removal and installation.
- 4 Route the wiring harness from the PCFC behind the left hand side of the frame and go towards the throttle bodies as shown in Figure A.



- 5 Unplug the stock wiring harness from each injector as shown in Figure B.



- 6 Attach the connectors from the PCFC to the stock injectors and the stock wiring harness as shown in Figure C.
Attach the orange wires to cylinder 1 (front).
Attach the yellow wires to cylinder 2 (rear)



- 7 Unplug the Throttle Position Sensor (TPS) connector as shown in Figure D.
This connector is located on the right hand side of the throttle bodies and is grey in color.
- 8 Attach the connectors from the PCFC to the stock TPS and wiring harness.



- 9 Route the ground wire from the PCFC through the front hole in the battery box.
- 10 Attach the ground wire from the PCFC to the negative side of the battery as shown in Figure E.



For the M109R

- 11 Using the supplied velcro, secure the PCFC to the face of the metal bracket under the left hand side cover as shown in Figure F.

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

FIG.G



For the C109R

- 12 Using the supplied velcro, secure the PCFC to the face of the ECU as shown in Figure G.

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

- 13 Reinstall the air box, fuel tank, side covers, and seat.