

POWER COMMANDER FC

2009-2014 Yamaha FZ1

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

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Position	Note
Position 1	2009 Yamaha FZ1 Stock exhaust Stock or aftermarket air filter
Position 2	2010 Yamaha FZ1 Stock exhaust Stock or aftermarket air filter
Position 3	2011-2014 Yamaha FZ1 Stock exhaust Stock or aftermarket 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.

FIG.A



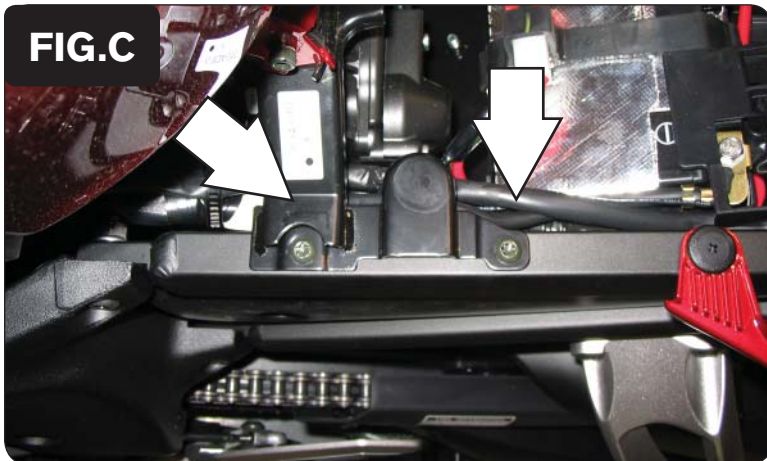
- 1 Remove the main seat and the passenger seat.
- 2 Prop the front of the fuel tank in the up position.
- 3 Temporarily lay the PCFC in the tail section.
- 4 Route the PCFC harness under the tail section and go towards the front of the bike.
- 5 Locate the grey connector from the main wiring harness to the injector rail and unplug this connector as shown in Figure A.

FIG.B

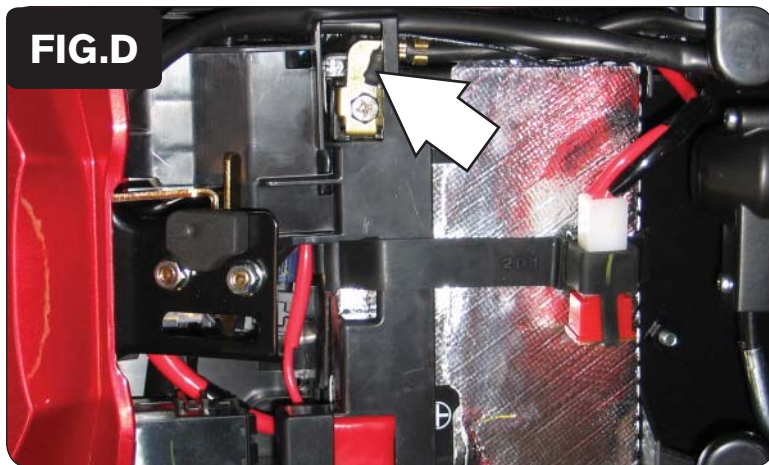


- 6 Attach the connectors from the PCFC to the stock wiring harness as shown in Figure B.

FIG.C



- 7 Remove the bolt on the left hand side of the fuel tank bracket.
- 8 Loosen the bolt on the right hand side of the fuel tank bracket enough to route the PCFC harness underneath it as shown in Figure C.
- 9 Re-tighten the bracket.



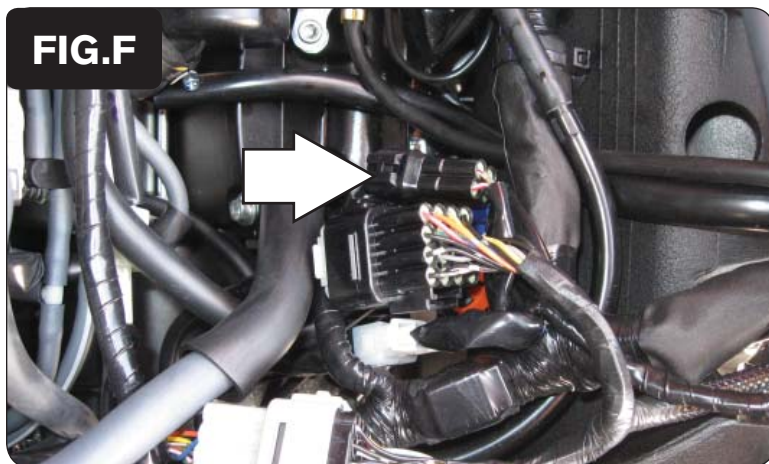
- 10 Attach the ground wire from the PCFC to the negative side of the battery as shown in Figure D.



- 11 Using the supplied velcro, secure the PCFC in the rear section of the trunk as shown in Figure E.

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

- 12 Verify the wires are routed properly.



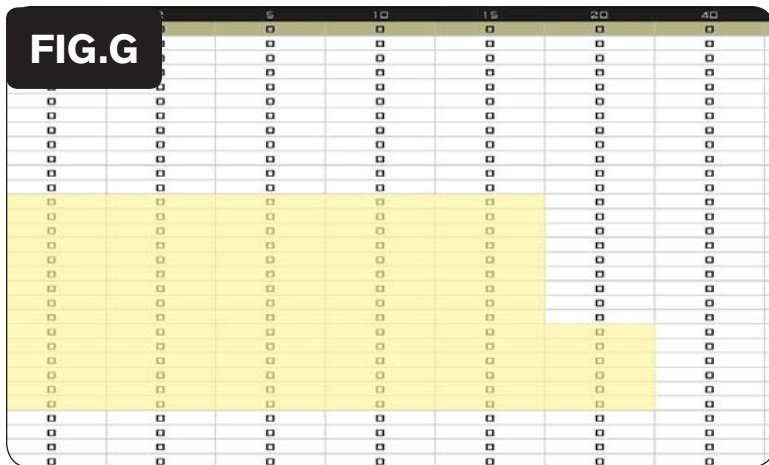
- 13 Locate the stock O2 sensor in the exhaust. Follow the O2 sensor harness and unplug it from the stock wiring harness.

This is a black 4-pin connector next to the main throttle body connector.

- 14 Attach the connectors from the PCFC to the O2 sensor harness and the stock wiring harness as shown in Figure F.

- 15 Lower the fuel tank and verify the connectors and harness do not interfere with or get pinched by the fuel tank.

- 16 Reinstall the main seat and the passenger seat.



The PCFC for this model controls the stock closed loop area. This area is represented by the highlighted cells shown in Figure G. The PCFC is designed to achieve a target AFR of 13.6:1. To use this PCFC you must retain your stock O2 sensors.

It is not necessary to input values in the highlighted area.