

POWER COMMANDER FC

2006-2014 Yamaha Stratoliner/Roadliner
2008-2013 Yamaha Raider

Installation Instructions



Parts List

- 1 Power Commander FC
- 1 USB Cable
- 1 Installation Guide
- 2 Dynojet Decals
- 2 Velcro
- 1 Alcohol swab
- 1 O2 Optimizer

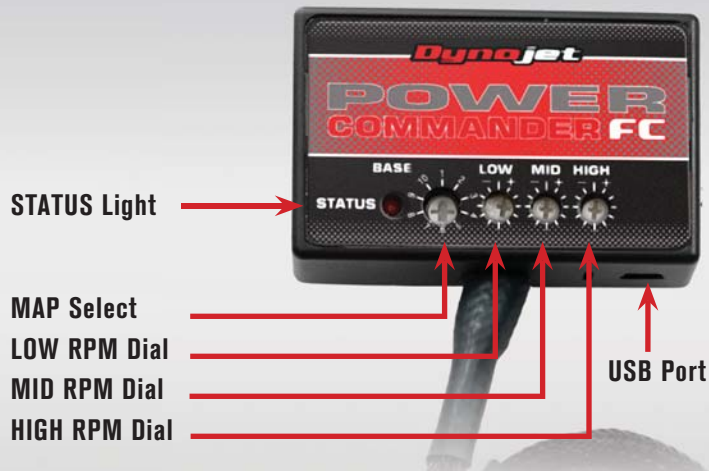
**THE IGNITION MUST BE TURNED
OFF BEFORE INSTALLATION!**

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	2006-2008 Yamaha Roadliner/Stratoliner Stock exhaust Stock or aftermarket air filter Stock O2 sensor disconnected
Position 2	2009-2014 Yamaha Roadliner/Stratoliner Stock exhaust Stock or aftermarket air filter
Position 3	2008-2013 Yamaha Raider 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.



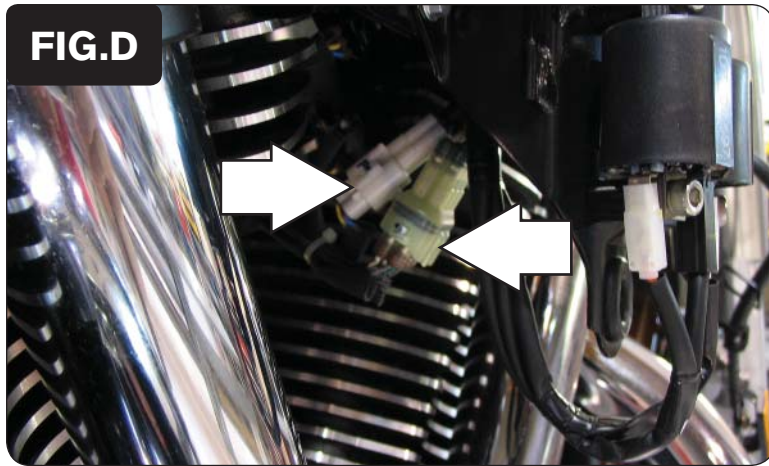
- 1 Remove the main seat.
- 2 Remove the right hand cosmetic engine cover as shown in Figure A. There is a bolt at the front and rear of this cover.



- 3 Lay the PCFC in the area of the ECU.
- 4 Route the PCFC harness underneath the seat latch plate and under the right hand side of the frame as shown in Figure B.



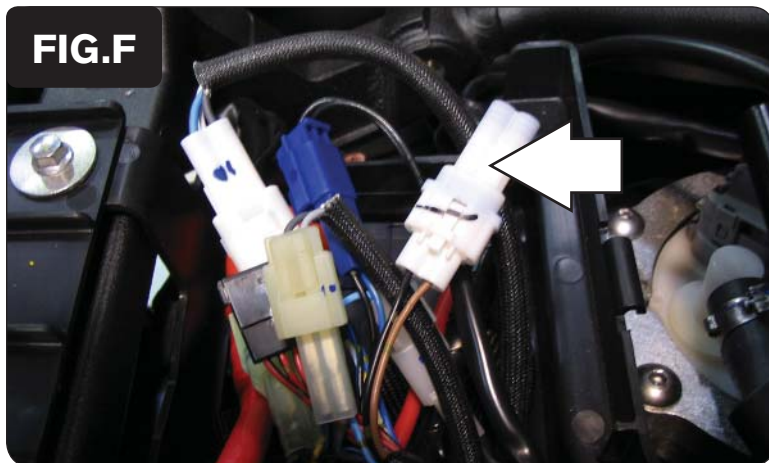
- 5 Route the PCFC harness above the cylinder head following the frame.
- 6 Route the PCFC harness behind the engine mount bracket as shown in Figure C.



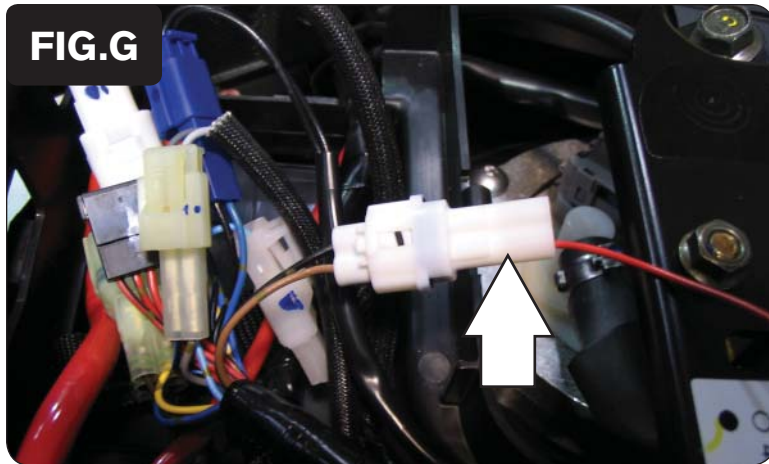
- 7 Unplug the white 3-pin connector and the clear 6-pin connector as shown in Figure D.
These connectors are located behind the ignition coils and lead to the throttle body.



- 8 Attach the PCFC connectors to the throttle bodies and stock wiring harness as shown in Figure E.



- 9 Remove the strap from the ECU and move the ECU out of the way to access the wires underneath.
- 10 Locate the white 2-pin connector that has a brown and black wire.
- 11 Remove the blank end of this connection as shown in Figure F.



- 12 Attach the red wire from the PCFC to the stock wiring harness as shown in Figure G.
- 13 Reinstall the ECU back into its stock position.

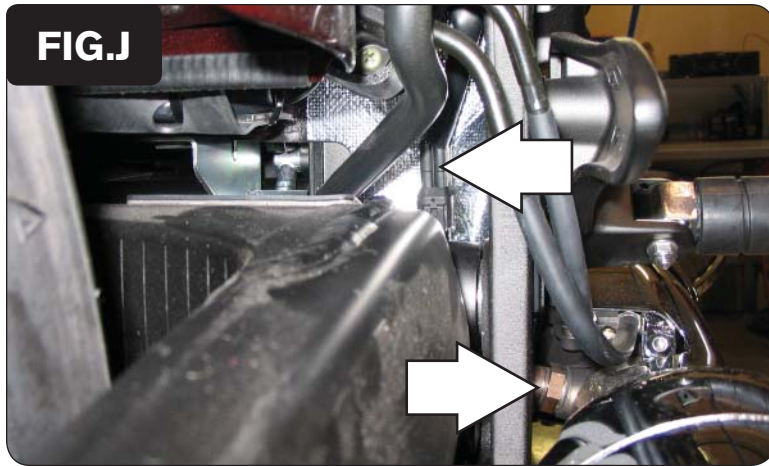


- 14 Locate the stock ground. Follow the negative battery cable to the frame.
- 15 Remove the allen bolt securing the ground cable to the frame.
- 16 Reinstall the allen bolt through the stock ground cable then through the ground wire from the PCFC into the frame as shown in Figure H.



- 17 Using the supplied velcro, secure the PCFC on top of the ECU as shown in Figure I.

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



- 18 Follow the wire harness from the O2 sensor to the connection behind the frame and disconnect it as shown in Figure J.
- 19 Connect the Dynojet O2 optimizer to the stock wiring harness.
The O2 sensor does not need to be connected to anything at this time.
- 20 Reinstall the cover and the seat.