

# POWER COMMANDER FC

2008-2014 Yamaha Road Star

Installation Instructions



## Parts List

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

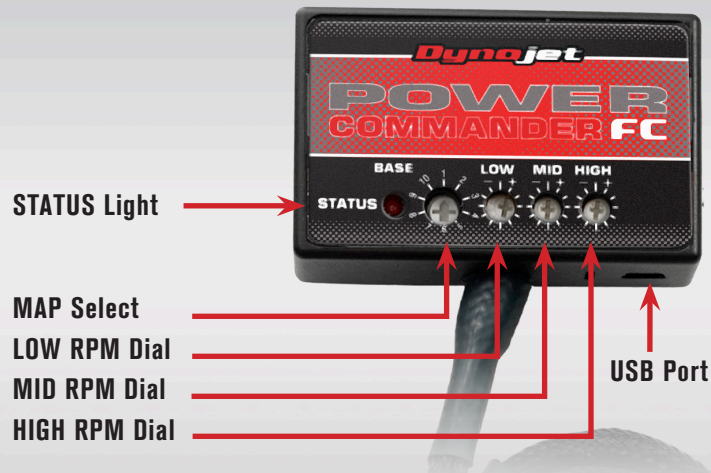
**THE IGNITION MUST BE TURNED  
OFF BEFORE INSTALLATION!**

YOU CAN ALSO DOWNLOAD THE PCFC  
CONTROL CENTER SOFTWARE AND  
LATEST MAPS FROM OUR WEB SITE AT:  
[www.powercommander.com](http://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](http://www.powercommander.com)



Position	Note
Position 1	2008-2014 Yamaha Road Star 1700 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.

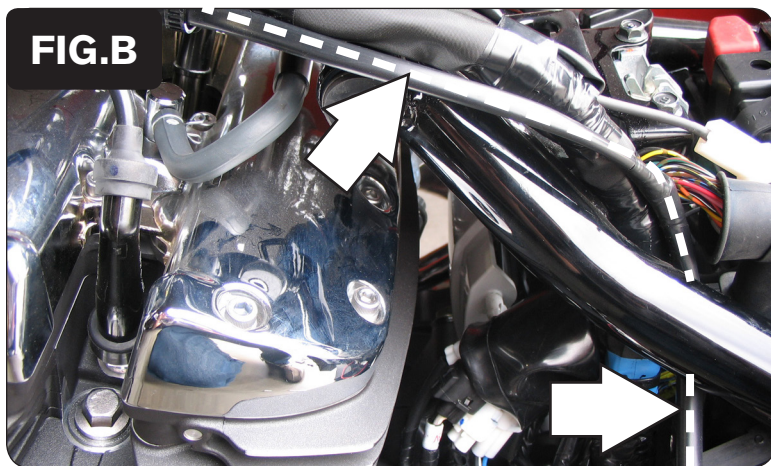
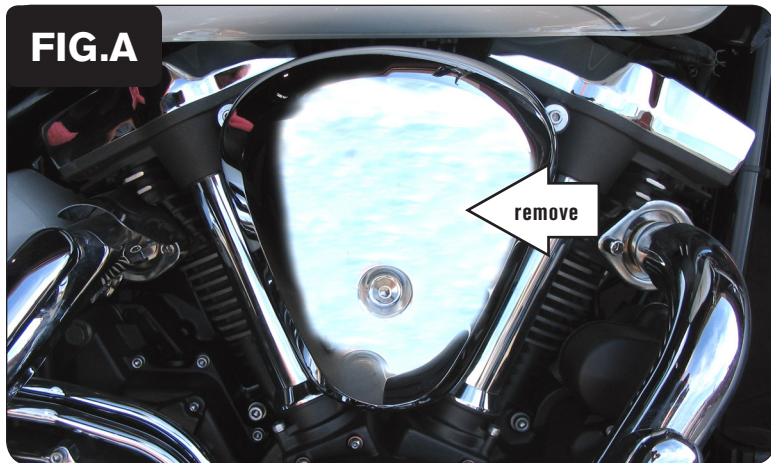
- 1 Using your web browser, navigate to [www.powercommander.com](http://www.powercommander.com).
- 2 Click Enter Race Ready.
- 3 Click Downloads.
- 4 Click Access Downloads for Power Commander FC.
- 5 Click the PCFC software Download button.
- 6 Open the zip folder.
- 7 Double-click the install file 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.

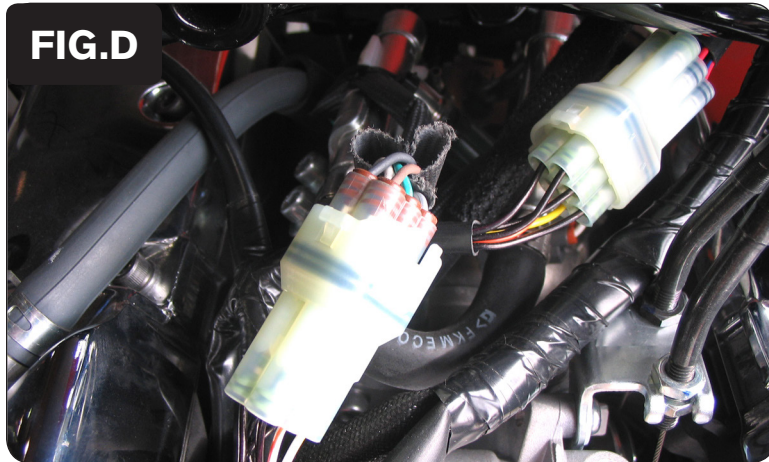
### ALTERING MAPS USING SOFTWARE

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.

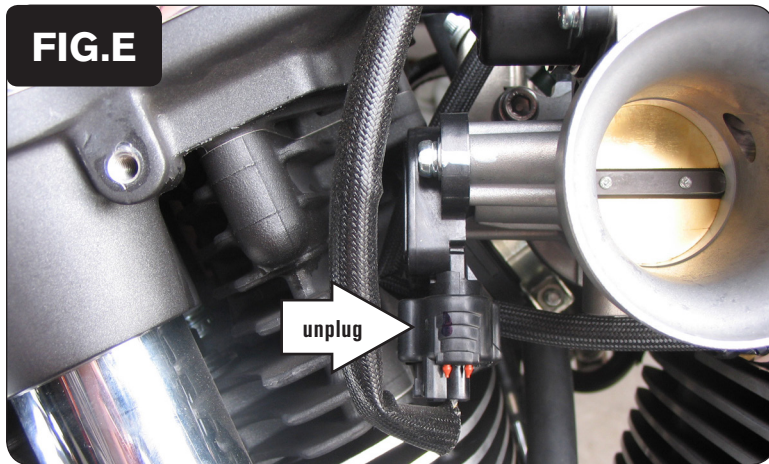


- 1 Remove the seat.
- 2 Remove the fuel tank.
- 3 Remove the right hand side air box as shown in Figure A.
- 4 Remove the left hand side cover.
  
- 5 Lay the PCFC under the left hand side cover next to the fuse box.
- 6 Route the PCFC harness behind the left hand frame tube and follow the main wiring harness towards the front of the bike as shown in Figure B.  
  
Use the stock wire tie to secure the PCFC harness in place.
  
- 7 Locate and unplug the clear 6-pin connector under the main frame spar from the bike's throttle bodies as shown in Figure C.

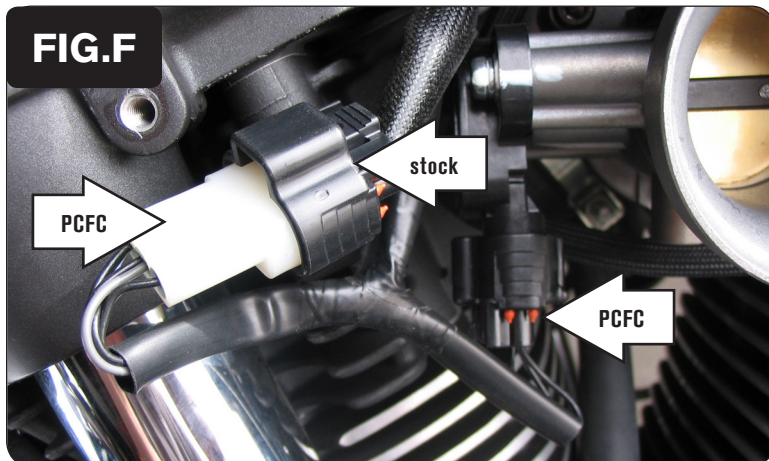




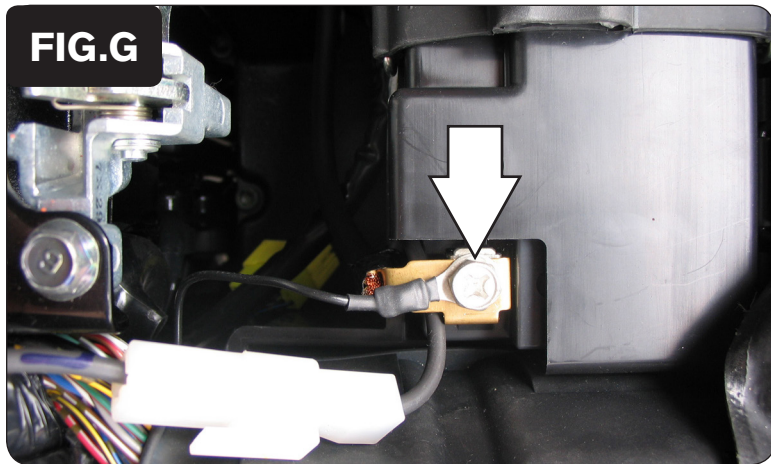
- 8 Attach the connectors from the PCFC to the stock wiring harness and the throttle bodies as shown in Figure D.



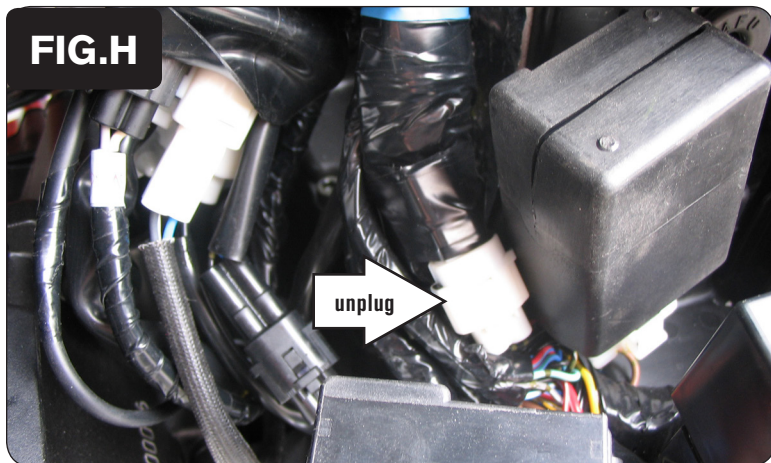
- 9 Locate and unplug the stock Throttle Position Sensor (TPS) connector as shown in Figure E.  
This connector is on the right side of the bike to the rear of the throttle body.



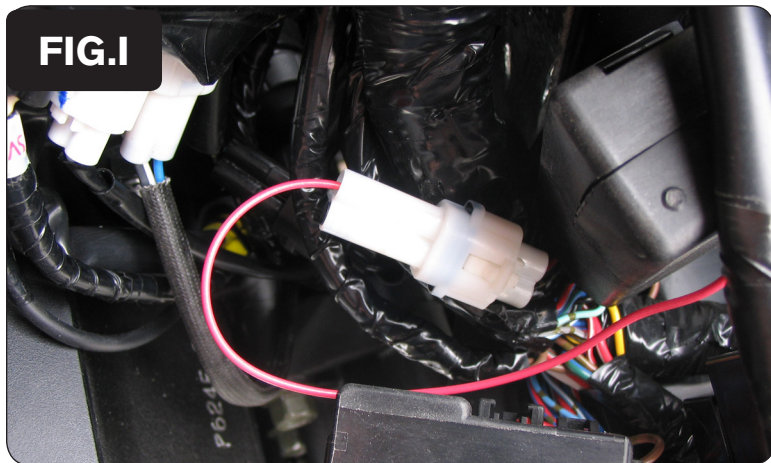
- 10 Attach the connectors from the PCFC to the stock TPS and stock wiring harness as shown in Figure F.



- 11 Attach the ground wire from the PCFC to the negative (-) terminal of the bike's battery as shown in Figure G.



- 12 Locate the white 2-pin connector that is taped to the main wiring harness behind the left hand side cover.
- 13 Untape this connector from the main wiring harness and remove the cap as shown in Figure H.



- 14 Attach the connector with the red wire from the PCFC to the stock wiring harness as shown in Figure I.

**FIG.J**



- 15 Using the supplied velcro, secure the PCFC next to the fuse box, behind the right hand side cover as shown in Figure J.

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

- 16 Reinstall the side cover, fuel tank, and airbox.