

POWER COMMANDER FC

**Suzuki: 07-10 SV650/SV650S,
07-11 DL650, 09-13 Gladius**

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	2007-2010 Suzuki SV650 Stock exhaust Stock or aftermarket air filter
Position 2	2007-2011 Suzuki DL650 Stock exhaust Stock air filter
Position 3	2009-2013 Suzuki Gladius 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.

2007-2010 Suzuki SV650/SV650S and 2007-2011 Suzuki DL650

Use the following instructions for the 2007-2010 Suzuki SV650/SV650S and 2007-2011 Suzuki DL650.

- 1 Remove the main seat and the passenger seat.
- 2 Prop the front of the fuel tank up using the Suzuki prop rod.
- 3 Remove the air box.

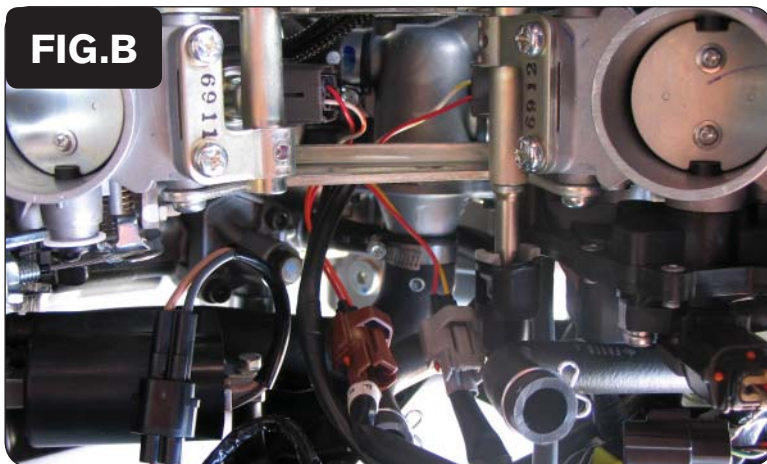
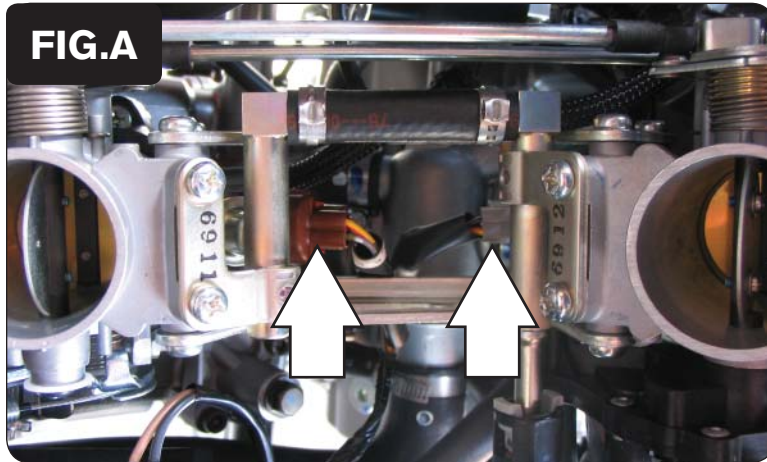
Note: The air box does not need to be removed to perform this installation, but removing the air box may make it easier as the stock injector connectors can be very difficult to remove.

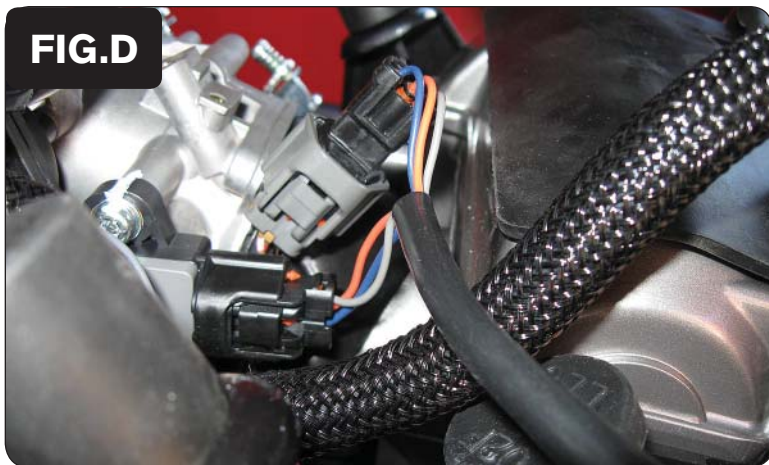
- 4 Route the PCFC harness from the tail section towards the engine.
- 5 Locate the stock injector connectors. The front cylinder connector is brown and the rear cylinder connector is grey.
- 6 Unplug these connectors from the injectors as shown in Figure A.
- 7 Attach the connectors from the PCFC to the stock wiring harness and the injectors as shown in Figure B.

Connect the orange wires from the PCFC to the front cylinder and stock brown connector.

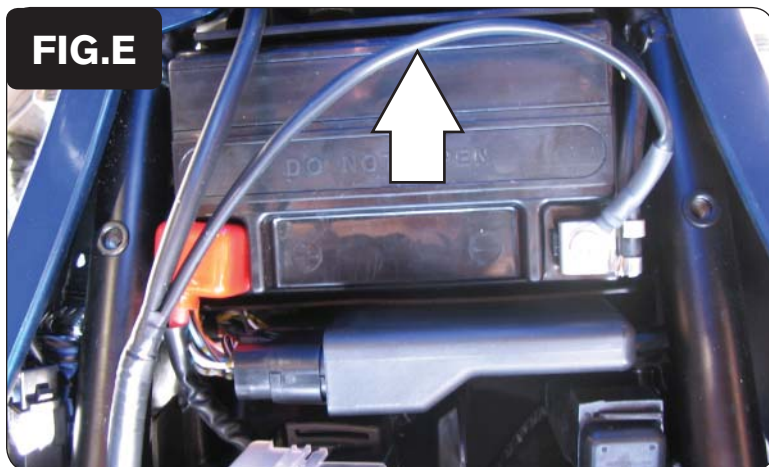
Connect the yellow wires from the PCFC to the rear cylinder and stock grey connector.

- 8 Locate the throttle position sensor (TPS) connector.
The TPS connector is located on the left side of the throttle body.
- 9 Unplug the connector from the TPS as shown in Figure C.





- 10 Attach the 3-pin connectors from the PCFC to the TPS and stock wiring harness as shown in Figure D.



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



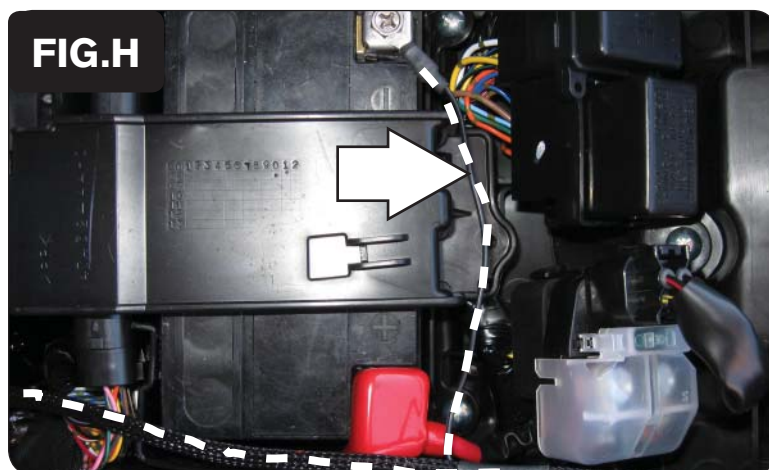
- 12 Using the supplied velcro, secure the PCFC in the tail section as shown in Figure F.
Make sure to clean both surfaces with the alcohol swab before attaching.
- 13 Reinstall the air box if it was removed.
- 14 Lower the fuel tank back into place and bolt it down.
- 15 Reinstall the passenger seat and the main seat.



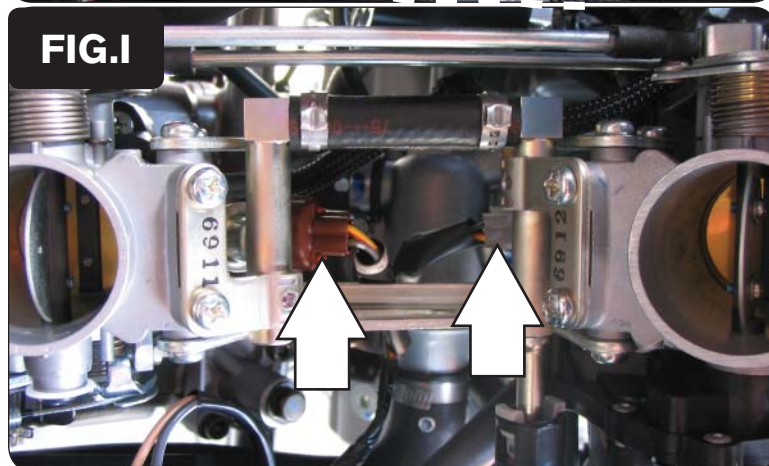
2009-2013 Suzuki Gladius

Use the following instructions for the 2009-2013 Suzuki Gladius.

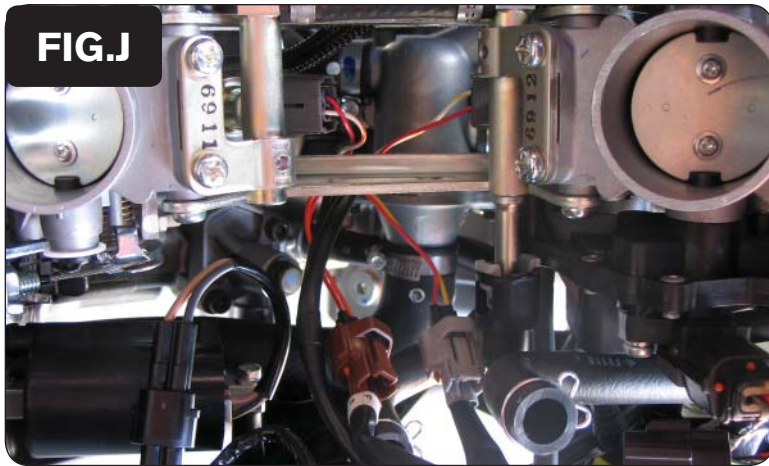
- 1 Remove the main seat and the passenger seat.
- 2 Install the PCFC in the tail of the bike on top of the tool kit as shown in Figure G.



- 3 Route the wires from the PCFC down the left side of the bike and towards the engine.
- 4 Attach the ground wire from the PCFC to the negative side of the battery as shown in Figure H.



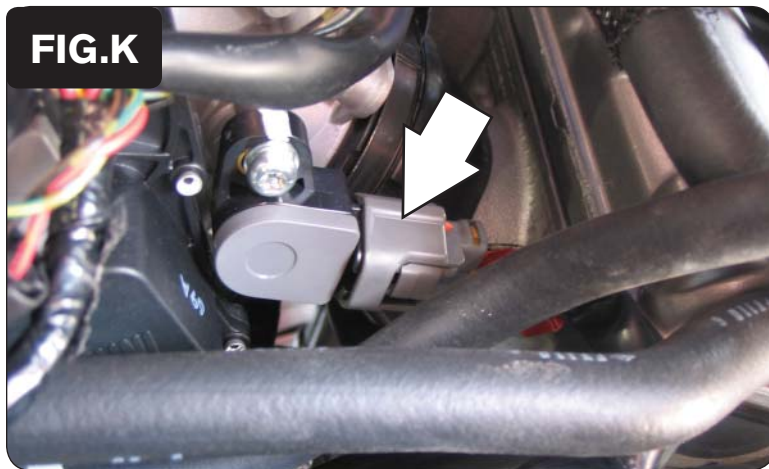
- 5 Prop the front of the fuel tank up using the Suzuki prop rod.
- 6 Remove the air box.
The air box does not need to be removed to perform this installation but may make it easier as the stock injector connectors can be very difficult to remove.
- 7 Locate the stock injector connectors.
The front cylinder connector is brown and the rear cylinder is grey.
- 8 Unplug these connectors from the injectors.



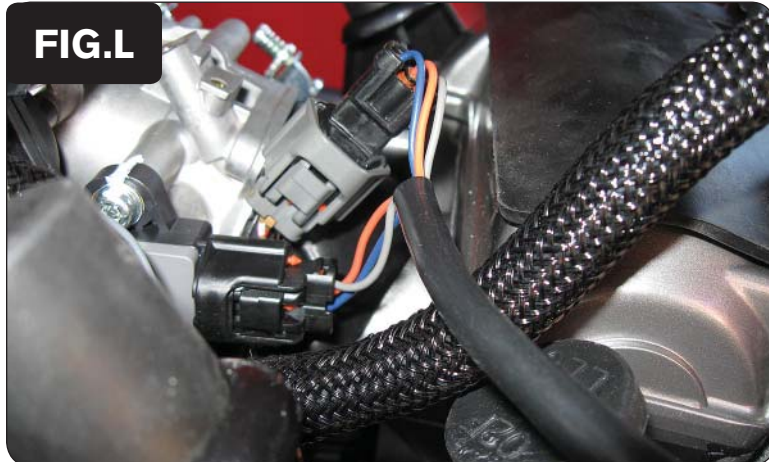
- 9 Attach the PCFC connectors to the stock wiring harness and the injectors as shown in Figure J.

Connect the orange wires from the PCFC to the front cylinder and stock brown connector.

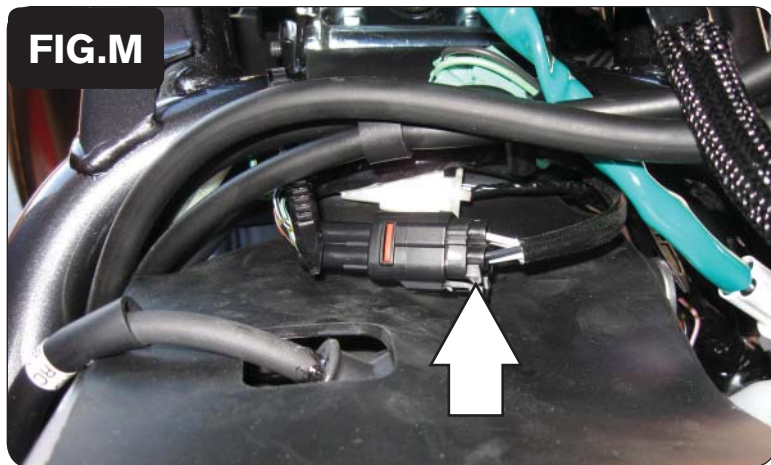
Connect the yellow wires from the PCFC to the rear cylinder and stock grey connector.



- 10 Locate the throttle position sensor (TPS) connector.
The TPS connector is located on the left side of the throttle body.
- 11 Unplug the connector from the TPS as shown in Figure K.



- 12 Attach the PCFC connectors to the TPS connector and stock wiring harness as shown in Figure L.

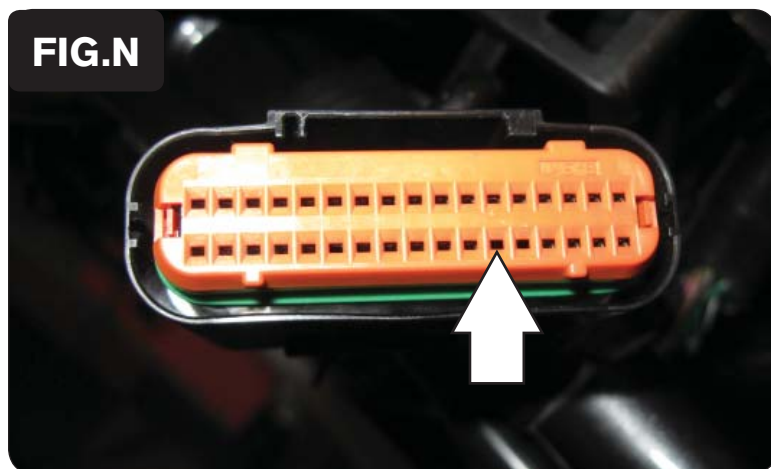


- 13 Locate the stock O2 sensor connection.

The O2 sensor connection is located under the fuel tank as shown in Figure M.

- 14 Unplug this connection.

The stock O2 sensor will not be connected to anything at this time. It can be removed from the exhaust if you have a way to cap the bung.



- 15 To disable the FI light when the O2 sensor is unplugged, remove the black/brown wire of the ECU. This is pin #23 from the black connector.

Remove the orange retainer and then use a pick or very small screwdriver to release the tab inside the connector while pulling on the wire from the back side.

- 16 Reinstall the air box if it was removed.
- 17 Reinstall the fuel tank.
- 18 Reinstall the passenger seat and main seat.