

Installing a Bulkhead Fitting

This procedure is for the 2nd generation FJR1300 (2006 to ?).

First off, thanks to H. Marc Lewis for his excellent write up on the [FJR1300 Info](http://www.fjr1300.info/index.html) [http://www.fjr1300.info/index.html] web site.

The procedures at that web site are written for the first generation FJR, for the most part, the instructions at that page are transferable to the second generation FJR. Due to this similarity only those items that are different or where clarification was needed. You are strongly encouraged to visit this site and familiarize yourself with the process before proceeding.

Tools Required

- Felt tip pen or sharpie
- Phillips screwdriver
- 4mm Allen wrench for the side covers,
- 10mm socket,
- 12mm socket,
- Needle nose pliers
- siphon hose

Stock Fuel Tank Removal Procedure

Removing the FJR1300's gas tank is remarkably straight forward. While it is not necessary to drain the fuel to remove it, doing so makes it much easier to handle the tank and it will have to be removed sooner or later. As with any job be careful and take your time. The paint is easily scratched, and rushing this job makes that all the more likely. Additionally, improper reassembly could result in a fuel leak which is not a good thing.

The fuel tank is mounted at the rear with a long bolt which extends through the frame. This bolt is accessible once you remove the trim, which has bolts and snaps into rubber grommets.

Step 1 Remove lower trim skirt on fuel tank.

- a) Remove the bolts from the trim panel.



- b) Gently pull the trim to remove it.



- Step 2** Mark the location of the bulkhead fitting. Ideally the bulkhead fitting would be installed on the kickstand side in order to keep it at the same level as the aux tank drain but, regrettably there isn't enough room on the left side. On the bottom right side of the tank there is a small flat space where the bulkhead fitting will go. Use a marker to highlight this area. This will give you a better feel for positioning the fitting in the right place.



Step 3 Remove front tank mounting bolts.



Step 4 Remove nut from rear mounting bolt.
You do not need to remove the bolt just yet.



Step 5 Raise the front of the tank to gain access to the hose fittings and electrical connections.



Step 6 Remove the two vent lines on the left underside of the tank.

Step 7 Remove main fuel line connection.

Step 8 Remove electrical connectors.

Step 9 Remove rear bolt.

Step 10 Remove fuel tank.

Step 11 Drain off the fuel.



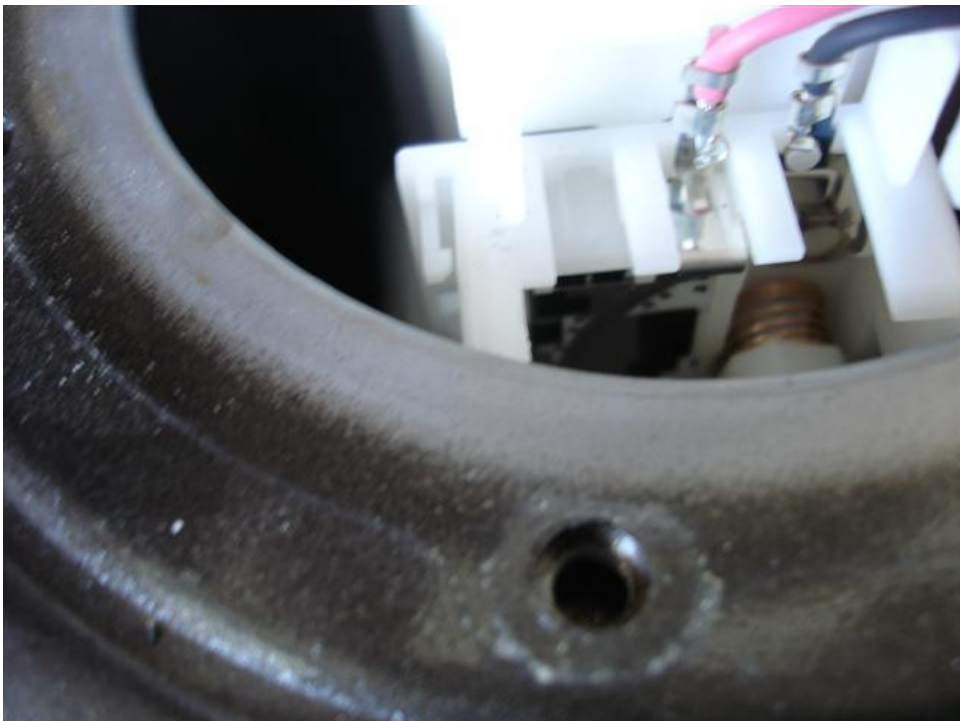
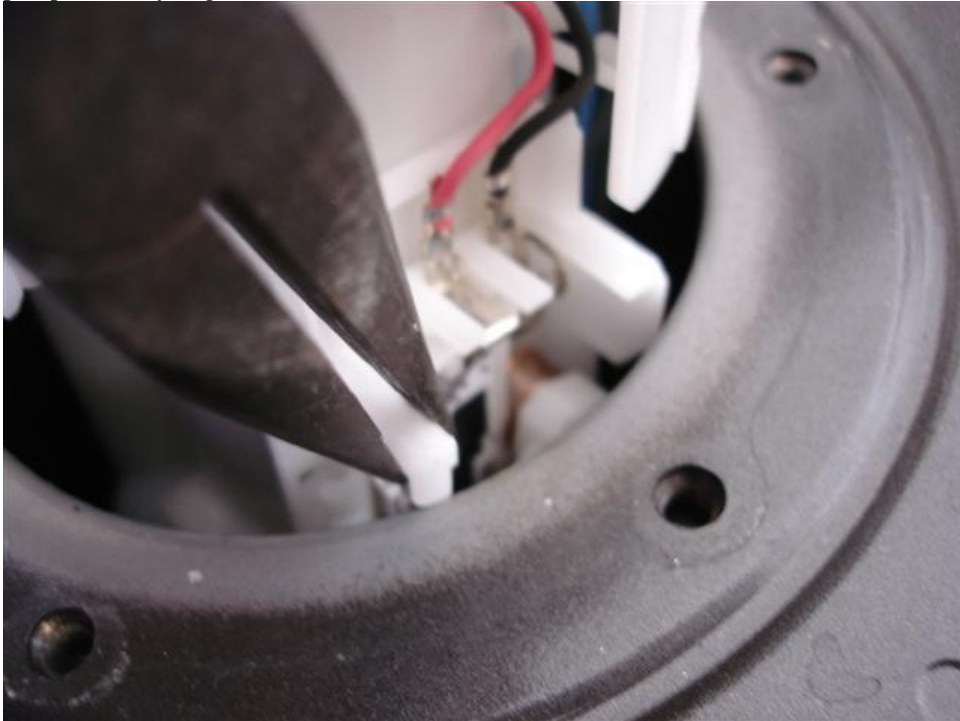
This completes the Stock Fuel Tank Removal Procedure.

Bulkhead Fitting Installation Procedure

Step 1 Remove the fuel pump assembly.

Step 2 Remove the six bolts from the retaining ring.

Step 3 Remove the fuel pump assembly. BE GENTLE and take your time. You will need to gently twist the small nylon tab a bit to get it to clear the tank and then manipulate the rotation of the pump assembly to get the float arm toward the rear for removal.



Step 4 Finish draining off and drying up any remaining fuel.

Step 5 Position the bulkhead fitting and mark where the hole is to be drilled.



Step 6 Drill hole and install bulkhead fittings per instructions at <http://www.fjr1300.info/howto/bulkhead.html>

Note: If you ordered a bulkhead fitting with the tank it has been machined for the O-ring. Only one O-ring is required. It should be placed on the outside of the tank.

Step 7 Reinstall the fuel pump assembly. Directions are the reverse of removal.

Step 8 Position the tank on the motorcycle.

Step 9 Install and route the hose.

Note: Pictured is a straight hose barb with the fuel line routed along the right side of the motorcycle. Alternatively, a 90° hose barb may be used to route the fuel line to the left side of the motorcycle.



This completes Bulkhead Fitting Installation Procedure.

Stock Fuel Tank Installation Procedure

Step 1 Position the tank to provide access to the hose fittings and electrical connections.



Step 2 Reconnect the two vent lines on the left underside of the tank.

Step 3 Reconnect the main fuel line connection.

Step 4 Reconnect the electrical connectors.

Step 5 Install rear bolt.

Step 6 Lower tank into position, making sure there is no binding, chafing, or pinching of the electrical, vacuum, or fuel lines.

Step 7 Install the front mounting plate and secure front and rear mounting bolts.

Step 8

This completes the Stock Fuel Tank Installation Procedure.

