

Items Supplied >

- 1 – Fi2000CL-ARB Fuel Injection Module
- 1 – Zip Tie, (1): 3/16" x 8"
- 2 – Zip Tie, (2): 3/16" x 6"
- 1 – Velcro Strip

Application(s) >

Yamaha V-Star 950/Tourer 09-13

Instruction Manual >

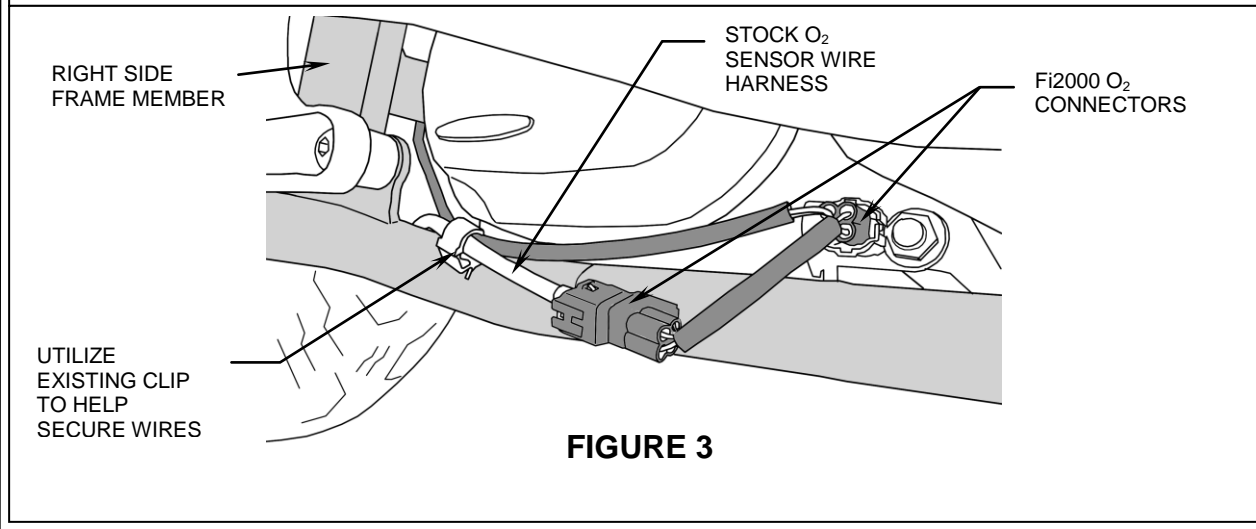
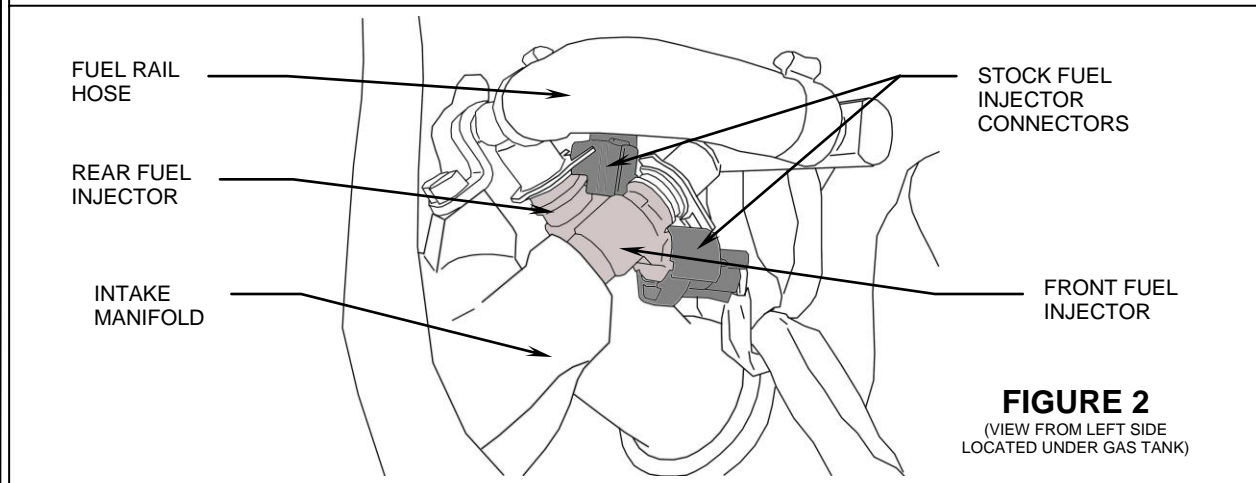
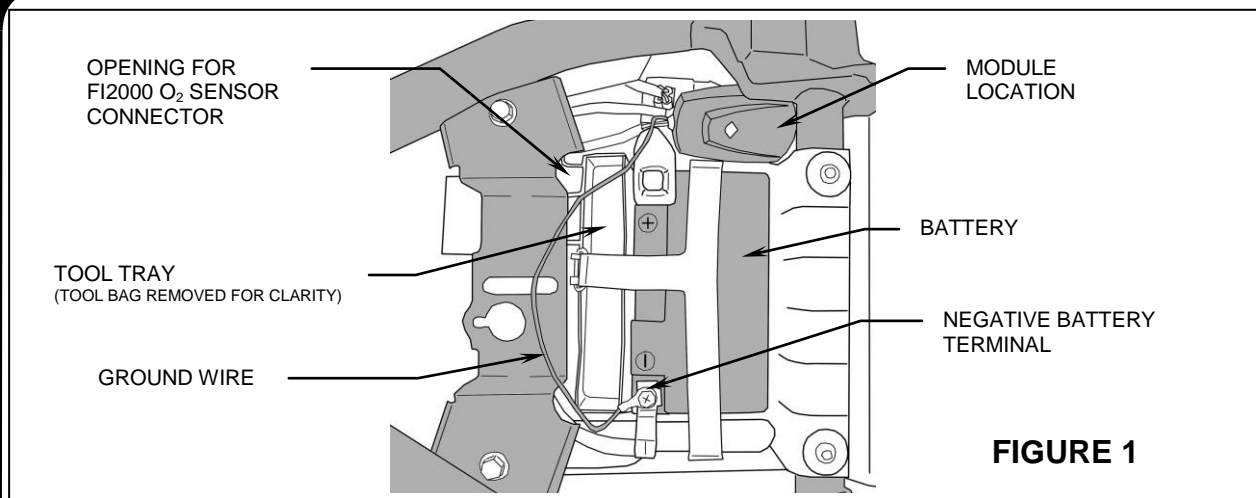
92-1775CL-50

Page 1 of 3

Read all instructions carefully and completely before installing your new Fi2000® module. It is recommended that a qualified mechanic or technician install this product. Before installing the Fi2000 it is recommended that the gas tank be low on fuel.

1. Remove the seat. Remove the allen bolts securing the rear of the fuel tank, prop the tank up securely to allow access to the fuel injector connectors.
2. Position the Fi2000 module in the designated area under the seat, see Figure 1. Then feed the Fi2000 harness with the injector connectors forward until reaching the intake manifold area.
3. Locate the stock fuel injector for the front cylinder under the fuel tank on the left side of the motorcycle, see Figure 2. Unplug the stock connector and using the forward pair of Fi2000 injector connectors plug each male and female connector into the corresponding stock connectors. Repeat for rear fuel injector using the rear pair of Fi2000 injector connectors. Tuck the connectors and harness wires out of the way and lower the fuel tank.
4. Route the second harness with the O₂ connector through the designated space/hole next to the battery tray until the connector ends appear out of the bottom of the motorcycle, See Figure 1. Unplug the stock O₂ connector that is mounted above the right side lower frame rail. Replace this connection with the corresponding Fi2000 O₂ male and female connectors into the stock connectors, see Figure 3. Zip tie loose wiring to the frame away from the exhaust pipes.
5. Velcro the Fi2000 module to the top of the white fuse box, see Figure 1. Attach the ground wire from the Fi2000 to the negative post. Before reinstalling the seat, verify connections.
6. Remove the door from the Fi2000 module to expose the LED's. Verify the wire connections by, (1), turning the ignition on while watching the 3 LED's. They will all light up for a few seconds, and then go off. This is correct. If there are no lights visible, make sure the side stand is up, bike is in neutral, clutch is in and handlebar engine switch is set to run. If there are still no lights visible, re-check that all connectors are fully engaged and the ground wire is connected correctly. (2), after achieving a steady light from all three LED's, start the motorcycle; the green light should now be the only LED on. If all three LED's are still on after start up, verify the injector connectors are correctly attached. Reattach the access door when finished and install the remaining components. **NOTE:** Make sure the ignition is turned off before changing any connections.

*** It is recommended that you always wear a helmet while riding. Please never operate your motorcycle while under the influence of alcohol and/or drugs. Enjoy the new power of your motorcycle and please ride safely.**



ADVANCED TUNING

The Fi2000CL-ARB works differently than previous Fi2000 products in that it uses the existing oxygen sensors that the motorcycle comes equipped with to monitor the air fuel ratio at all times and simply adds the proper amount of fuel in the acceleration and high load areas of operation (compared with the stock closed loop system from these motorcycles does not), to prevent harmful lean fuel conditions and maintain stock emissions quantities. With the utilization of the stock oxygen sensor monitoring system in combination with the Fi2000CL-ARB, the brand or style of exhaust systems and / or high flow air filter does not affect proper air-fuel ratio resulting in consistent emissions content. For example, a greater leanness created by better air volume flowing products will be fuel compensated to maintain proper air-fuel ratio than a lower air volume flowing combination of products.

In the standard cruise mode or closed loop operational mode, the motorcycle will dispense fuel and maintain the proper air-fuel ratio just as it was designed from the original equipment manufacture, because in this range of operation, the stock fuel management system will adjust the air-fuel ratio for optimized emissions content. For this reason, be sure that the motorcycle has all of the latest factory engine control management software updates and warranty approvals.

TROUBLE SHOOTING

If you have any problems refer to: Step 6, in the installation body of these instructions.