Fi2000®
23801 E. La Palma Ave., Yorba Linda, Ca 92887 Ph. 714.692.8180, Fax. 714.692.5016
www.fi2000r.com

Items Supplied >

1 – Fi2000R Fuel Injection Module
1 – Zip Tie, (1): 3/16" x 8"
1 – Velcro Strip

Application(s) >

YAMAHA ROADLINER	2006-2013
YAMAHA STRATOLINER	2006-2013

Instruction Manual > **92-1773CL-50**

Read all instructions carefully and completely before installing your new Fi2000CL-ARB module.
It is recommended that a qualified mechanic or technician install this product.
Before installing the Fi2000CL-ARB it is recommended that the fuel tank be low on fuel.

1. Remove the seat, and the chrome right hand cover from the engine. Remove the two dome head nuts holding the rear of the fuel tank on. If the motorcycle is being worked on in a motorcycle stand, it will be necessary to gain extra clearance when lifting the rear of the fuel tank for installation of the Fi2000 wire harness. To do this, remove the decorative trim from the front of the fuel tank, to prevent from damaging it. It may also be necessary to remove the button head socket screws securing the instrument bezel / gauge cluster, so it maybe removed for clearance at the front.
2. Position the Fi2000 on top of the ECU (under the seat) and feed the fuel injector wire harness under the front seat bracket, then feed the harness forward underneath the rear fuel tank mounting bracket. Lift up the fuel tank just enough to slip the wire harness under the rear of the fuel tank, make sure the harness does not get pinched between the fuel tank and the frame as the tank is lowered down, see Figure 1. Zip-tie the harness to the other harnesses under the tank.
3. Feed the remaining portion of the wire harness forward and down through the coil bracket opening, see Figure 2. Locate the white Roadliner 6-pin connector behind the coil-mounting bracket; disconnect this connector.
4. Plug the Fi2000 connectors into the corresponding 6 pin connectors that were previously unplugged in Step 3. Reinstall the chrome right side cover.
5. Remove the socket head screw securing the O_2 sensor harness and bracket to engine case on the right side of the motorcycle, see Figure 3, unplug the stock male and female connectors, and route the Fi2000 O_2 connectors to this location and insert into corresponding connectors. The routing of the harness will need to be from the under seat area, to behind the oil tank and down to this area where the connectors are. It may be necessary to pull the harnesses outward to assemble once routed down behind the oil tank, then reposition behind the frame rail and reattach the mounting bracket to the case and tighten to proper factory torque specification.
6. Using the supplied Velcro pads, place the module in the position shown, in Figure 4. Attach the black ground wire from the Fi2000 to the 5 mm allen head bolt securing the battery ground wire, see Figure 4. Before reinstalling the seat, verify 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.***

7. 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.

ADVANCED TUNING

The Fi2000CL-ARB works differently then previous Fi2000 products in that it uses the existing oxygen sensor 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 7, in the installation body of these instructions.

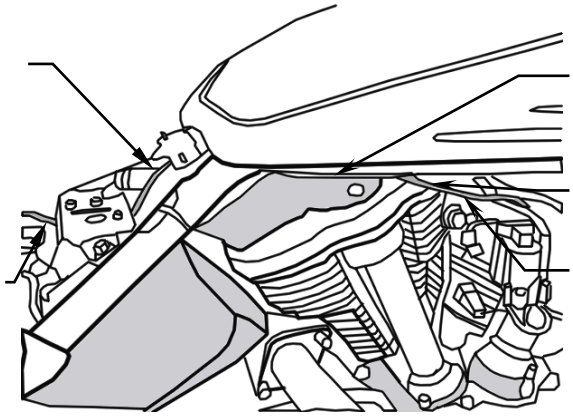

FIGURE 1

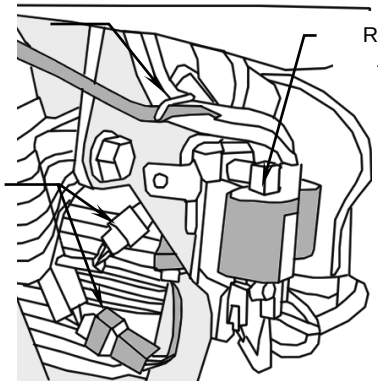

FIGURE 2

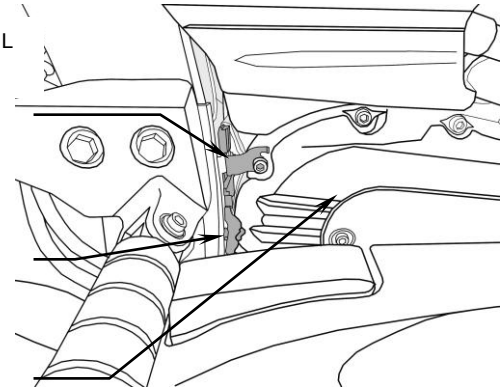

FIGURE 3

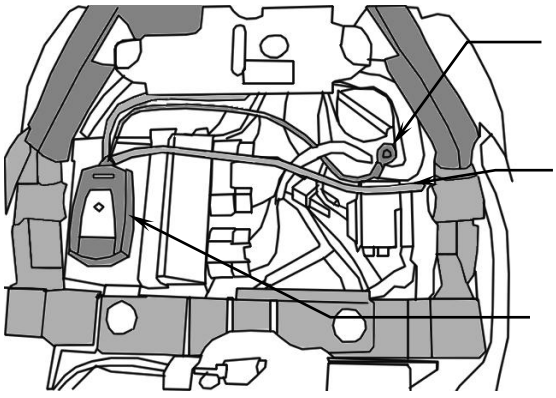

FIGURE 4