

Items Supplied >

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

Application(s) >

Yamaha C/L V-Star 1300/Tourer
CLOSED LOOP
07-18

Instruction Manual >

92-1774CL

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Read all instructions carefully and completely before installing your new Fi2000RCL module. It is recommended that a qualified mechanic or technician install this product. Before installing the Fi2000R it is recommended that the gas tank be low on fuel.

1. Remove the seat. Remove the two 12 mm headed bolts securing the rear of the fuel tank, prop the tank up securely to allow access to the fuel injector connector.
2. Position the Fi2000R module in the area under the seat, then feed the Fi2000 harness with the white connector forward under the seat latch bracket and route it forward between the two large fuel hoses, see Figure 1.
3. Locate the four prong white connector up under the fuel tank on the left side of the frame. Unplug this connector then plug each male and female connector into the corresponding stock connectors, see Figure 2. Tuck these connectors out of the way and lower the fuel tank.
4. Route the second harness with the clear connectors forward under the right side frame rail and forward of the right side panel. Next slide the harness back between the right frame rail and top of the side panel until you can route the harness down and behind the rear edge of the side panel in the cutout for the fuel lines and clutch cable, the panel may need to be removed. Remove the three allen screws from the triangular cover to access the O₂ sensor connection. Unplug this connection and then plug in the corresponding Fi2000 connectors into the stock connectors. Replace the triangular cover to hide these connectors.
5. Velcro the Fi2000R module to the black fuel pump tank, see Figure 1. Lift up the tool tray / battery cover to access the negative post of the battery. Attach the ground wire from the Fi2000R to the negative post. Reinstall the cover. Before reinstalling the seat, verify connections.
6. Remove the door from the Fi2000R module to expose the LED's. **NOTE:** The Fi2000R base pot settings come preset from the factory for the V-Star 1300, shown in (Figure. 3.) 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.

*** For California riders we offer Air Resources Board approved Fi2000 ARB units with Executive Order number D-633-2. All other Fi2000 models are not legal for street use in California.**

ADVANCED TUNING

Your Fi2000 fuel injection module has been tested and preset for best function and rideability on a motorcycle with aftermarket aircleaner and a performance aftermarket exhaust. The Fi2000 does however, have 3 important adjustments that allow you to tune the module for optimum performance, especially if you have performed other changes to your motorcycle. These adjustments also allow you to resolve drivability issues if our stock settings are not exactly right for your bike. Make sure your motorcycle is up to normal operating temperature (15 minutes of riding should be sufficient) before making any adjustments. Remove the door to expose the pots shown in Figure 4.

GREEN LED POT (left pot) – With the Closed Loop function of this module you do not need to adjust this setting, leave it at 1.0. Without a closed loop system this adjustment would affect idle and cruise fuel. If you had cruising issues, this is where you would try a different setting. Generally, surging and uneven running while cruising is a lean fuel condition, so adding a small increase in fuel by turning this adjustment clockwise with a small flat blade screwdriver a 1/2 of a position would help. The bike would need to be Test-driven to feel an improvement and only the setting would need to be increased until the surge went away. Also, backfiring or popping on trailing throttle is generally a lean symptom (or an exhaust gasket leak). The same small increases as above would be tried just until the backfiring would disappear.

YELLOW LED POT (middle pot) - this adjustment affects acceleration and power fuel. If you have a hesitation or bogging on acceleration, this is where you would try a different setting. Aftermarket air cleaner assemblies generally lean out fuel mixtures, so try small clockwise increases until a smooth acceleration returns. Starting with the base setting, test ride the motorcycle in 4th or 5th gear and perform moderately fast roll-on throttle from a repeating standard R.P.M. or speed. Increase the pot one position at a time and stop as soon as you don't feel any improvement.

RED LED POT (right pot) - the right hand or red pot is for the fuel setting required when the engine is maximizing its R.P.M. and power delivery. This pot is similar to the main jet in a carburetor. It will take a combination of a minimum R.P.M. and a predetermined amount of engine load to initiate this fuel. The straightaway on a racetrack or an inertia dyno are the best places to set this pot. Full exhaust systems of high quality construction increase flow characteristics and will increase fuel demands over our base settings. Also, air filters specifically designed for higher than stock airflow can create need for higher fuel setting. Try an additional one-position pot setting at a time.

TUNING NOTES

Typically 2 into 1 exhaust systems require one additional position, on the yellow and red pots, over slip-ons or staggered duals. On high performance motors, slip-on mufflers do not flow well enough and create fuel setting problems and detonation. The installation of a complete exhaust system is recommended.

TROUBLE SHOOTING

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

Tech Support <https://fi2000.com>

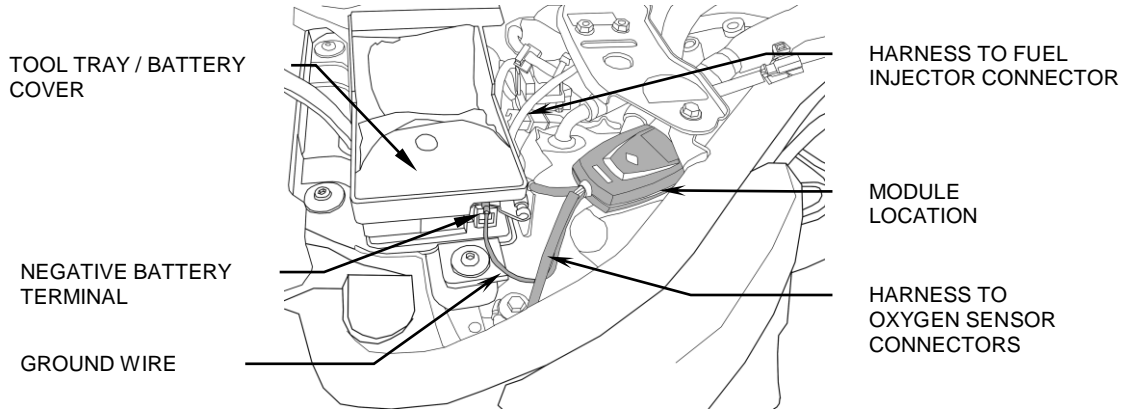


FIGURE 1

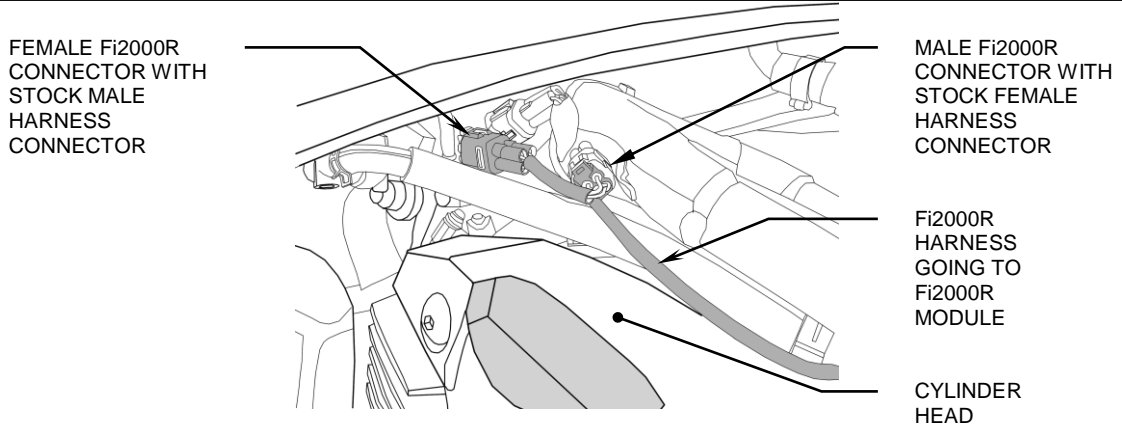


FIGURE 2

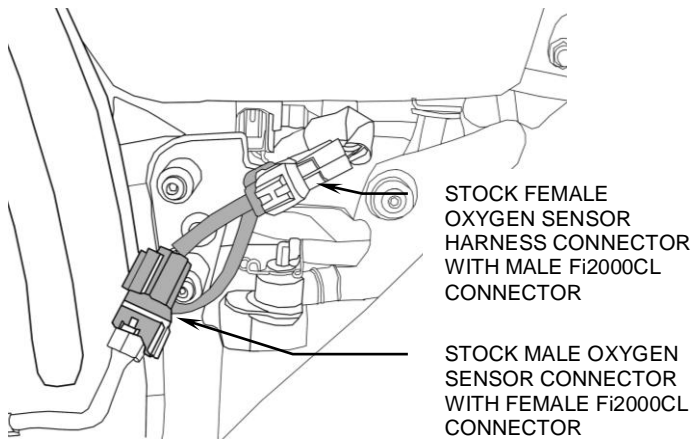


FIGURE 3

Default Pot Settings:

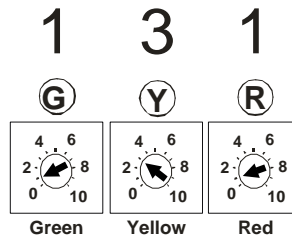


FIGURE 4