

Items Supplied >

- 1 – Fi2000AT Fuel Injection Module
- 2 – Zip Tie 6"
- 1 – Zip Tie 12"
- 1 – .75" Plastic Plug
- 1 – Velcro Strip

Application(s) >

YAMAHA ROADSTAR 2008-2013

Instruction Manual >

92-1771AT

Page 1 of 4

Read all instructions carefully and completely before installing your new Fi2000AT module. It is recommended that a qualified mechanic or technician install this product. Before installing it is recommended that the fuel tank be low on fuel.

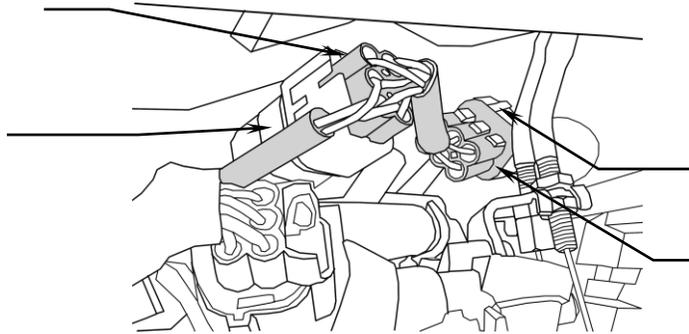
1. Remove the seat by turning the ignition key entirely to the left side. Then first remove the painted left then right hand side cover from behind the engine, secured with large button head screws on each side. There is a M6 Hex screw hidden between the covers, which must be removed before removing the right cover.
2. Remove the three buttonhead screws retaining the instrument cluster on top of the fuel tank, once the bezel is free disconnect the two harness connectors located just to the front of the fuel tank, remove the bezel entirely to prevent it from scratching the fuel tank.
3. Remove the 10mm Cap nut and bolt retaining the rear of the fuel tank. Once removed, prop the rear of the fuel tank up with a block, to gain access to the top of the engine area and six-pin fuel injector connector.
4. Position the Fi2000 to the rear of the tool kit on the flat frame member (under the seat) and feed the six pin connector harness around the right side frame rail, and up underneath the fuel tank, locate the stock six pin connector on top of the fuel injector area, disconnect it by prying up the tab on the female connector. Once disconnected, mate the corresponding male and female Fi2000 connectors with the stock connectors, be sure they seat firmly when pressed together, see Figure 1.
5. Route the two oxygen sensor harnesses along the upper right frame rail, and then underneath it directly behind the oil fill neck and ground connection, see Figure 2. Route both connectors behind the insulated relay cover; you may need to pull it outward slightly, to fit the harnesses behind it.
6. Locate the rear oxygen sensor connector mounted on the side of the relay cover. On the female connector pull the retaining tang outward to release the male connector. Insert the corresponding male and female Fi2000 connectors into the stock connectors from the shorter of the two oxygen sensor harnesses, be sure the connectors seat properly when pressed together. Tuck the excess harness beneath the relay cover; see Figure 2.
7. Route the longer Fi2000 oxygen sensor harness, along the right rear frame rail, just in front of the swing arm, continue routing it along the lower frame rail forward toward the front stock oxygen sensor connector. Disconnect the stock oxygen sensor connector, and mate the corresponding Fi2000 male and female connectors to it, be sure they seat properly when pressed together, see Figure 3.
8. On the front oxygen sensor harness, pull any extra slack out of it back towards the insulated relay cover. Install two 6" zip ties along the frame rail as indicated in Figure 4, to prevent the harness from getting too close to the exhaust.
9. On the fuel injector harness, pull any slack out of it back toward the Fi2000 housing, and install one 12" ziptie around the harness and frame neck, trim off excess zip tie, see Figure 5.
10. Locate the air injection pump and inlet hose at the front of the engine on the right side. To prevent sever trailing throttle backfiring, install the supplied 0.75" plug into the air inlet hose, see Figure 6, push plug in until flush.

*** 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.**

11. Remove the socket head screw retaining the ground wire to the oil fill neck, and attach the Fi2000 ground wire to the same location, reinstall the screw and tighten securely, see Figure 7.
12. Remove the block supporting the fuel tank, and lower it back into place, reinstall the 10mm cap nut and screw, and tighten securely.
13. Reconnect the two instrument bezel connectors and reinstall the 3-buttonhead screws securing it.
14. Verify the wire connections; turn on the ignition and watch the Fi2000 LED logo, confirm that the LED blinks several times then turns off. If you do not see any blinking, it may be necessary to wait for the alarm to reset (if applicable) and try again. Also confirm the side stand is up, bike is in neutral, clutch is in and handle bar engine switch is set to run (where applicable). Start the bike and the Fi2000 logo should remain solid red, which confirm the unit is fully functioning. If it flashes while the bike is running, turn off the bike and recheck that all harness connections (injectors, ground wire, and O2 sensors when applicable) have been properly made. Re-verify by turning ignition on while watching for flashing LED, prior to starting. Start and confirm LED remains ON solid red.
NOTE: Make sure ignition is turned off before attempting to change any Fi2000 harness connections.
15. Once it has been confirmed that the Fi2000 is functioning properly, remove the double sticky tape from the Velcro on the back of the Fi2000 Module and attach it in place on the flat frame rail, where it was previously resting, as in Figure 7. Install the side covers and tighten all screws/bolts securely, install the seat and confirm all removed or loosened components have been reinstalled properly.

MALE Fi2000
CONNECTOR

ROADSTAR
FEMALE
CONNECTOR



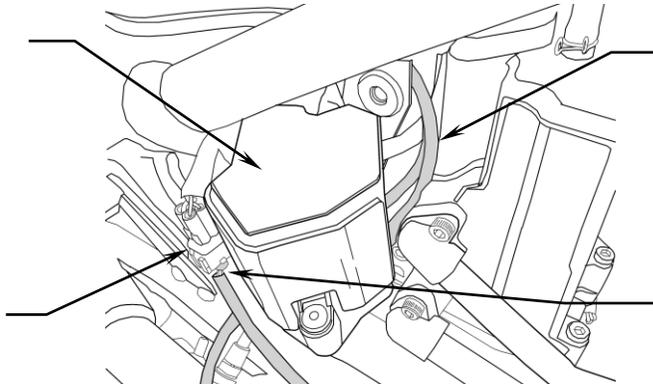
ROADSTAR
MALE
CONNECTOR

FEMALE
Fi2000
CONNECTOR

FIGURE 1

INSULATED RELAY
COVER ON RIGHT SIDE
BEHIND ENGINE, SIDE
COVER MUST BE
REMOVED TO GAIN
ACCESS

ROADSTAR REAR
FEMALE O₂ SENSOR
CONNECTOR

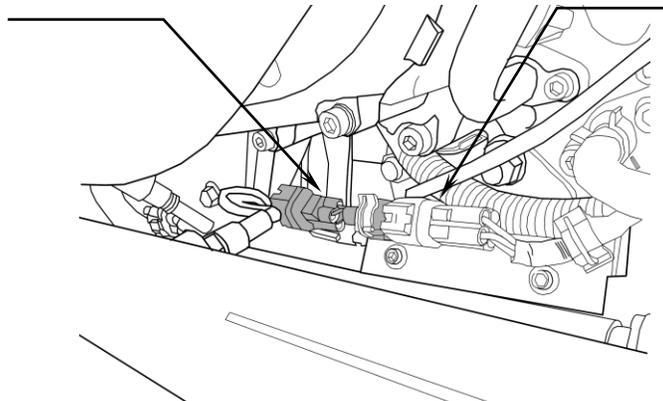


HARNESS ROUTED
BEHIND INSULATED
RELAY COVER

REAR MALE Fi2000 O₂
CONNECTOR

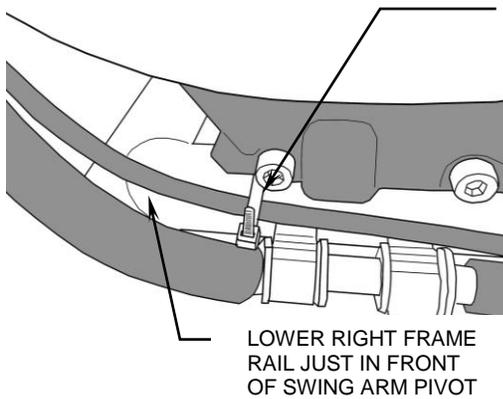
FIGURE 2

FEMALE Fi2000
O₂ CONNECTOR
WITH STOCK
MALE O₂
CONNECTOR



STOCK FEMALE
CONNECTOR WITH
MALE Fi2000
CONNECTOR

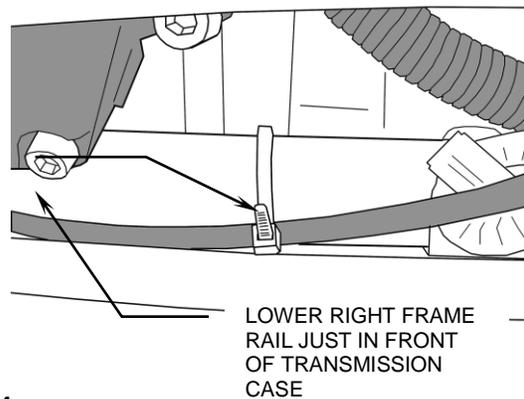
FIGURE 3



ZIP TIE SECURING FRONT O₂ FI2000 HARNESS

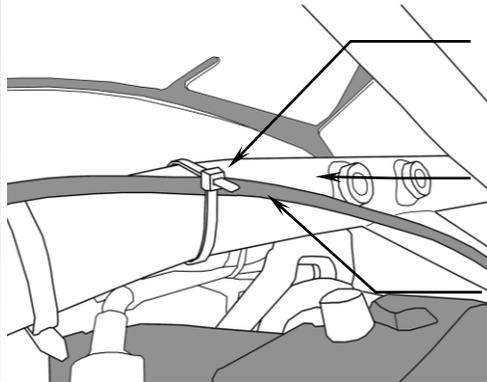
ZIP TIE SECURING FRONT O₂ SENSOR HARNESS AT FRONT

LOWER RIGHT FRAME RAIL JUST IN FRONT OF SWING ARM PIVOT



LOWER RIGHT FRAME RAIL JUST IN FRONT OF TRANSMISSION CASE

FIGURE 4

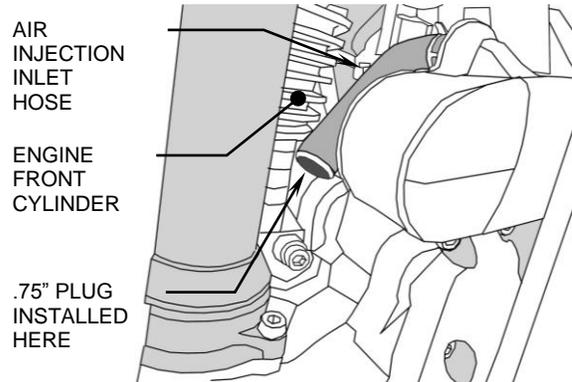


12" ZIP TIE TRIMMED AFTER INSTALLATION

TOP FRAME RAIL UNDER FUEL TANK

Fi2000 FUEL INJECTOR HARNESS

FIGURE 5

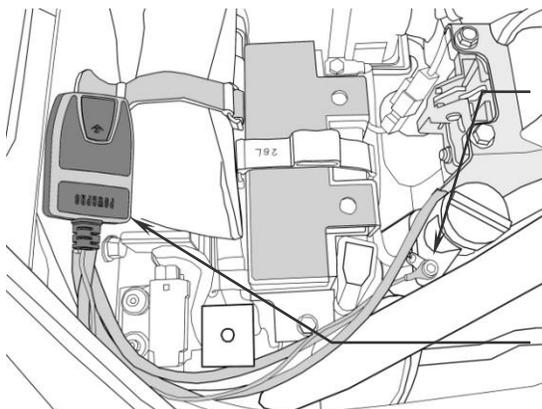


AIR INJECTION INLET HOSE

ENGINE FRONT CYLINDER

.75" PLUG INSTALLED HERE

FIGURE 6



GROUND WIRE FASTENING LOCATION

Fi2000 INSTALLATION LOCATION

FIGURE 7

NOTE: For California riders we offer Air Resources Board approved Fi2000R ARB units. (ARB E.O. No. D-633-1). All other Fi2000 models are not legal for street use in California.