

Items Supplied >

- 1 – POWRPRO Fuel Injection Module
- 4 – Zip Ties 6"
- 1 – Zip Tie 4"

Application(s) >

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2016 - 2017

Instruction Manual >

92-1630B

Page 1 of 4

Read all instructions carefully and completely before installing your new POWRPRO module. It is recommended that a qualified mechanic or technician install this product.

1. Remove the seat and rear fuel tank mounting bolts. Loosen front mounting bolt and prop the rear of the fuel tank up approximately 4 inches with a small block.
2. Remove left side cover by pressing plastic tab upward and pulling bottom of steel cover outward and up to release from upper retaining tabs. Pull engine ECU outward by releasing from retaining tab, see Figure 1. Loosen torx button head screw securing top of fuse box to frame. Leave the screw engaged by a few threads. Remove sockethead screw from side of fuse box, see Figure 1. Gently allow entire plastic fuse box to drop downward resting on upper screws, to allow for Powrpro wire harness to fit between frame and top of fuse box.
3. Remove cover over ABS control module under battery box cover on left side of motorcycle. Remove cover over battery and remove battery by taking off strap and wire leads. Make sure to disconnect negative first. Remove torx button head screws securing top of battery box to frame and torx screw through center of box. See Figure 2. Then remove battery box taking care not to scratch frame paint!
4. Pull existing wire harnesses out from under the seat frame area. Place the Powrpro and harnesses in the area which is under the seat, see Figure 3.
5. Route the injector harness between the left upper frame rail and fuse/ECU box which is lowered and hanging on screws. Continue routing this harness under main tank frame tube along right side of the tube. Tuck into harness channel with other wires and tubes until connectors are in between cylinder heads. See Figure 5. Locate the factory connector on each fuel injector. Depress the clip on the connector and pull the connector free and move it out of the way. **Note:** A pair of needle nose pliers and a long flat blade screwdriver helps with this job. Attach the pair of Powrpro module's injector plugs labeled "FRONT" to the front injector. Take the original HD connector and insert the corresponding Powrpro connector into it. Refer to Figure 4.
6. Attach the Powrpro module's remaining injector plugs labeled "REAR" onto the rear injector. Then take the original HD connector and insert the corresponding Powrpro connector into it. Refer to Figure 4. Secure the Powrpro injector harness to the existing HD harnesses under the tank at the front of the plastic harness tray, and again at rear area of tank using (2) supplied 6" zip ties. See Figure 5.
8. Route the longest Powrpro oxygen sensor harness from under the seat to the area behind removed battery box and towards ground lugs on right rear frame area above swingarm. Route connectors between rear of frame/transmission case and harness sheath in front of swingarm. See Figure 6.
9. Continue routing connectors and harness forward along lower right frame rail. Be sure to keep clear of brake rod and linkage. See Figure 7. Route it forward toward voltage regulator. If motorcycle is equipped with charcoal canister remove two torx screws securing it and slide out of mount bracket to left of motorcycle. See Figure 8. Locate the front oxygen sensor connection, free tabs of folding panel, and slide off retaining clip. Unplug the connector and plug the Powrpro O₂ sensor harness male connector into the O₂ sensor female connector and slide them back onto stock plastic panel location. **Continued to next page!**

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9. **Cont.:** Mate the stock male harness connector with the female Powrpro connector. Place this set of connectors between connectors attached to plastic panel. Be sure Powrpro harness exits on the right side between panel and frame. Secure with (2) 14" supplied zipties and trim off excess. See Figure 9 and 10. Reinstall the panel and the voltage regulator. Leave a small amount of slack in harness at connector and use 6" zip ties along lower right frame rail with existing harness. See Figure 7.
10. In the under seat area between frame rails locate and unplug the female connector that comes from the rear oxygen sensor, and mate it with the male connector from the shorter Powrpro O₂ sensor harness. See Figure 3. Mate the stock male connector with the female Powrpro connector. Be sure connectors are fully seated.
11. Reinstall the battery box making sure there are no pinched wire harnesses or tubes. Be sure to properly tighten the (3) torx screws. See Figure 2. Reinstall battery and strap. Connect black Powrpro ground wire to negative battery terminal. Reinstall battery box cover and make sure Phillips screw is properly tightened.
12. Position Fuse/ECU box back into position and snug upper torx screws. See Figure 1. Reinstall side allen bolt and tighten fully. Take care wire harnesses or tubes are not pinched and fully tighten upper screws. Reinstall ECU and cover into place. Be sure that it is properly secured by the tab which keeps it in place. Remove the block propping up the fuel tank and lower fuel tank back into proper position. Install rear mount bolts and securely tighten. Also tighten front bolts.
13. Verify that the module has power and connections have been made correctly. Watch the clear window on the FI housing. Make sure key fob is near bike and set the handlebar run switch to "ON". Confirm that the Red LED turns on. On some models the Red light will turn off after 4-5 seconds as the fuel pump cycles off. This is OK. If you do not see a Red light 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, and clutch is in. Start the bike and confirm the LED remains on solid Red. **NOTE:** Make sure ignition is turned off before attempting to change any Fi2000 harness connections if no Red light is seen. For access to the Blue Tooth Tuning App on the module, please download the Fi2000 App to your smart device with Android 4.3 & later or Apple iOS 5.0 & later operating systems. Once the app is installed, make sure the motorcycle is in neutral and start the engine. Open the app and select the connect button. The Blue light on the Fi module window will light up during pairing connection and remain solid Blue while paired and connected. Once the app has been used and settings saved, select the disconnect button through the app to disconnect pairing. The Blue light will turn off, and the PowrPro Black will be ready for continued service on the motorcycle.
14. Tuck the Powrpro housing down between frame underneath the seat. Be sure no wires are pinched or bound.
15. Verify all fasteners have been tightened and reinstall seat.

TROUBLE SHOOTING: If you have any problems refer to Step 13 in the main body of the instructions.



FIGURE 1

LOOSEN TORX SCREWS.
REMOVE TORX SCREWS TO REMOVE BATTERY BOX
PRESS TAB UPWARD TO REMOVE ENGINE ECU FROM SIDE COVER HOUSING
REMOVE ALLEN SCREW TO ALLOW FUSE BOX TO DROP DOWN

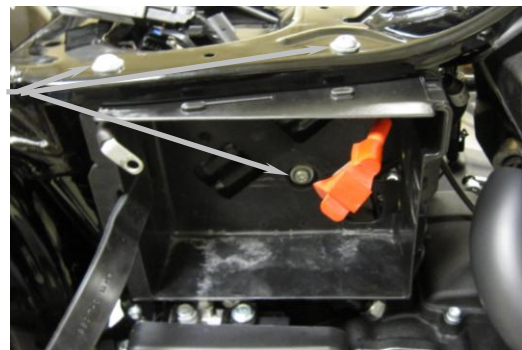


FIGURE 2



FIGURE 3

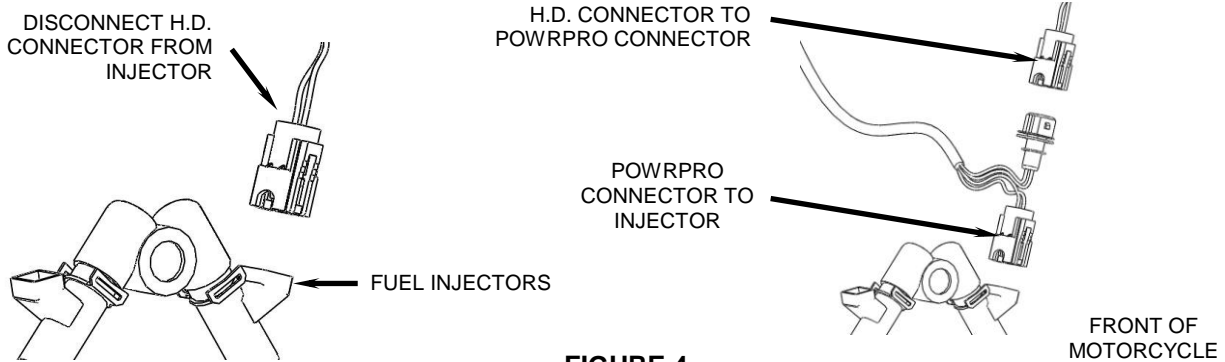


FIGURE 4

(REAR INJECTOR CONNECTORS NOT SHOWN)
(ACTUAL INJECTORS MAY VARY FROM PICTURE)



FIGURE 5

ROUTE FRONT O₂ HARNESS ALONG RIGHT REAR FRAME RAIL BEHIND ABS MODULE AND NEXT TO EXISTING GROUND WIRES BETWEEN FRAME GUSSET AND SWINGARM

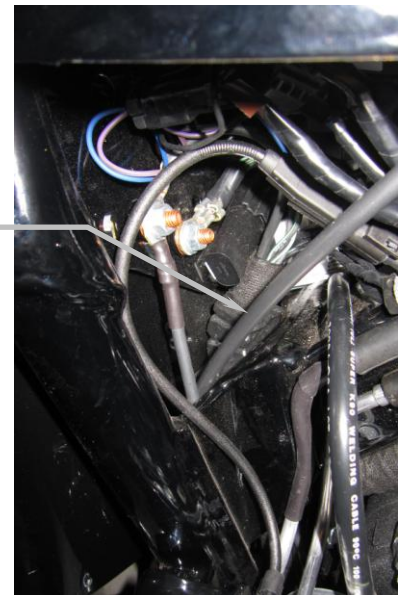


FIGURE 6



ROUTE FRONT O₂ HARNESS ALONG EXISTING WIRE HARNESS

ZIPTIE HARNESS TO EXISTING HARNESS WITH 6" ZIPTIES

FIGURE 7

CARBON CANISTER REMOVED FOR ACCESS TO FRONT O₂ SENSOR CONNECTORS

FRONT O₂ SENSOR CONNECTOR, PANEL FOLDED FORWARD FOR ACCESS



FIGURE 8

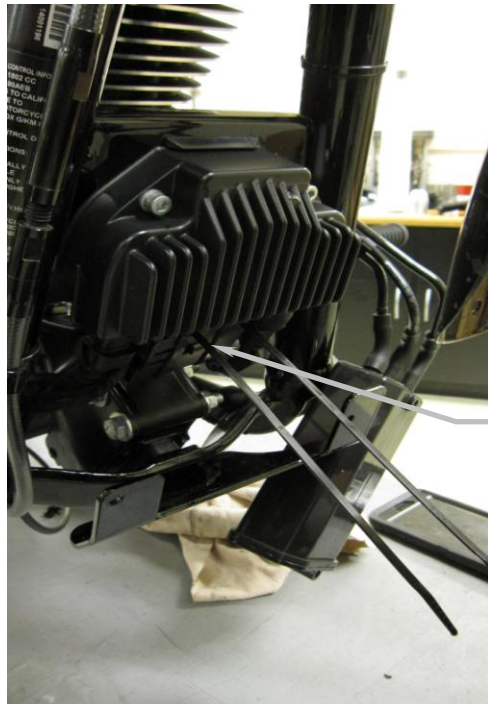


FIGURE 9

FRONT O₂ CONNECTORS SECURED WITH TWO 8" ZIPTIES, VIEW FROM

FRONT O₂ CONNECTORS SECURED WITH TWO 8" ZIPTIES. TRIM ZIPTIES ONCE SECURE



FIGURE 10

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