Fi2000 ®

Items Supplied >

1 – Powrpro Black Fuel Injection Module
5 – Zip Ties 6"
1 – Velcro Stripe

Application(s) >

CROSS COUNTRY	2010-2014
CROSS COUNTRY TOUR	2012-2014
CORY NESS CROSS COUNTRY	2010-2013
CROSS ROADS	2010-2014
CROSS ROADS CLASSIC LE	2012-2014
HARD-BALL	2012-2013

Instruction Manual >

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 left and right side cover on motorcycle below seat. Be careful not to scratch paint on lower section of panel on both sides.

2. Underneath edge of seat, remove bolts retaining it on left and right sides. With both side bolts removed, lift front portion of seat, if equipped with a seat heater, disconnect electrical connector at rear of seat and fully remove seat.

3. Remove M8 bolts securing rear of fuel tank on each side, rotate tank up at front slightly and remove rubber grommets between tank mount and frame. This will prevent grommets from falling down inside of frame. Remove M6 bolt at rear of fuel tank and remove ground wire.

4. Prop rear of fuel tank up and disconnect quick release fuel coupling on bottom of tank, by pressing in green tabs on each side of coupler and pulling fuel coupling downward from tank, Figure 1. Be sure to place a shop rag under fuel line and perform installation in a well ventilated area. Disconnect the fuel tank electrical connector along bottom of fuel tank also, see Figure 1. Be sure to disconnect two vacuum lines from rear lower left corner of fuel tank, for tank removal, see Figure 2.

5. Assistance is recommend to carefully pull fuel tank slightly rearwards to disengage from front rubber mounting lugs. Pull tank approximately 6 to 8 inches rearward and lift front and rear of tank upward and off at same time. Fully remove tank and set in secure ventilated area.

6. Place the Powrpro Tuner™ (PPT) in the area in front of the ECU on the left side of the motorcycle under the area covered by the left side panel, see Figure 3.

7. Route all three PPT wire harnesses towards the front of the motorcycle, the shortest with male and female single pin connectors will go down towards the rear cylinder O_2 sensor connectors. The other two harnesses route alongside the left upper side of the cast frame and can be attached to other harness retaining clips. Run the injector harness to the area between the engine cylinders and the longest with another set of single pin connectors down the left front cast frame member to the front cylinder O_2 sensor connectors, see Figure 4.

8. From left side of motorcycle, locate the rear fuel injector connector between cylinder heads, see Figure 5. Pull the "RED" pull tab up towards the top portion of the connector, assistance will be needed to prevent the injector from rotating during this procedure, see Figure 6. Once the Red tab is pulled upward, push in on the black tab below it, see Figure 6 & 7. While pushing in on black tab, pull entire connector upward and remove from injector. Right angled long nose pliers and assistance with a flat blade screwdriver from left side of engine will help with this. It may be necessary to snip the zip tie from the injector wires to the fuel rail, to allow adequate wire length to free connector from injector. Pull injector connector outward towards left side of motorcycle. Install the shorter (closer to PPT module), female connector onto rear injector. Mate stock female connecter with male PPT connector. Be sure all connectors seat firmly and Red lock tab on stock female connector is locked, see Figure 8.

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9. Locate front cylinder injector connector from left side of motorcycle, Figure 5. Pull Red lock tab upward, see Figures 6 and 7, depress black tab under it and pull connector straight up and free from injector. Mate the longer PPT female connector to the front injector and seat firmly, see Figure 8. Mate the PPT male connector with stock female connector and seat firmly together. Depress red lock tab on stock connector.

10. Be sure all connectors are securely installed on injectors and snapped together and "RED" lock tabs are seated in place. Carefully tuck the connectors back towards cylinder heads and under frame rail.

11. Locate the front O_2 sensor connector under plastic shroud at front of engine, and disconnect stock male and female connectors, it may be necessary to open up wire retaining ring for proper slack to work on connectors. Mate corresponding PPT female O_2 connector with the original male O_2 connector. Connect PPT male O_2 connector to original O_2 female connector on Victory harness, see Figure 9. Be sure to secure O_2 sensor connectors to wire loop retainer and secure PPT harness along the front cast frame member to existing harness with (1) 6 inch zip tie. Install (2) 6 inch zip ties along the left upper cast frame rail to secure front O_2 and Injector harness to existing wiring harness, Figure 4.

12. Locate rear O_2 sensor connectors and disconnect. Mate each corresponding stock connector with PPT connectors as in Step 11, see Figure 10. Be sure connectors seat firmly and harness runs next to vacuum line. Zip tie harness to vacuum line to prevent it from coming in contact with exhaust, Figure 11.

13. Set fuel tank back onto frame behind front rubber mounting lugs and reinstall quick connect fuel line securely, 4 pin electrical connector and two vent lines at left rear of tank. Lower fuel tank back into position carefully slide it forward until it engages front mounting lugs. Be sure to install both M8 mounting bolts and ground wire previously removed. Be sure all fasteners are tightened to factory specifications.

14. Place the seat back on motorcycle and install ground wire for Powrpro Tuner using left seat bolt. Install right seat bolt and tighten securely.

15. Verify that the module has power and connections have been made correctly; watch the clear window on the FI housing and turn "ON" the key ignition 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, which 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 PowrPro Black App to your smart device, 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, use the connect button within the app and the Blue light on the Fi module window will light up during pairing connection and remain solid Blue while paired and connected with respective Android or Apple Device. Once the app has been used and settings saved and disconnected through the app, the Blue light will turn off, and the PowrPro Black will be ready for continued service on the motorcycle.

16. Remove the backing from the Velcro and place the PPT between the main ECU and harnesses, and tuck stock harnesses neatly back into place, see Figure 11.

17. Confirm all fasteners have been retightened to factory specifications. Reinstall left and right side covers below seat area.

18. Place left and right triangular engine side covers back into place between cylinder heads.

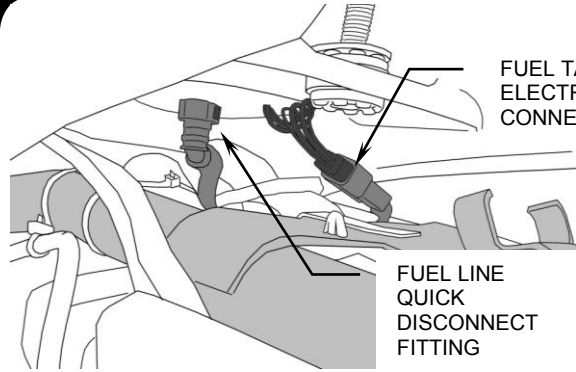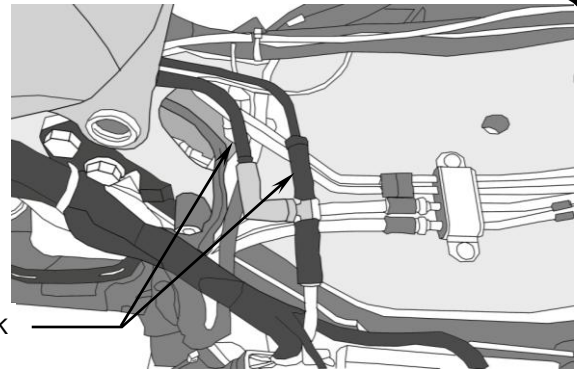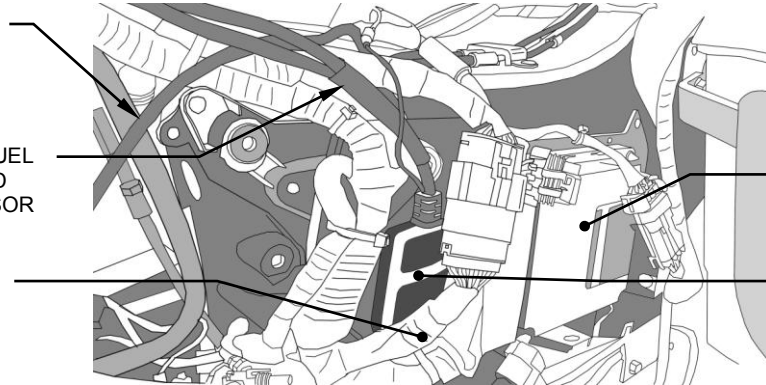**TROUBLE SHOOTING:** If you have any problems refer to Step 15 in the main body of the instructions.

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![Fi2000 logo]

FUEL TANK
ELECTRICAL
CONNECTOR

FUEL LINE
QUICK
DISCONNECT
FITTING

FUEL TANK
VACUUM
LINES

FIGURE 1   **FIGURE 2**

HARNESSES
TO REAR
OXYGEN
SENSOR

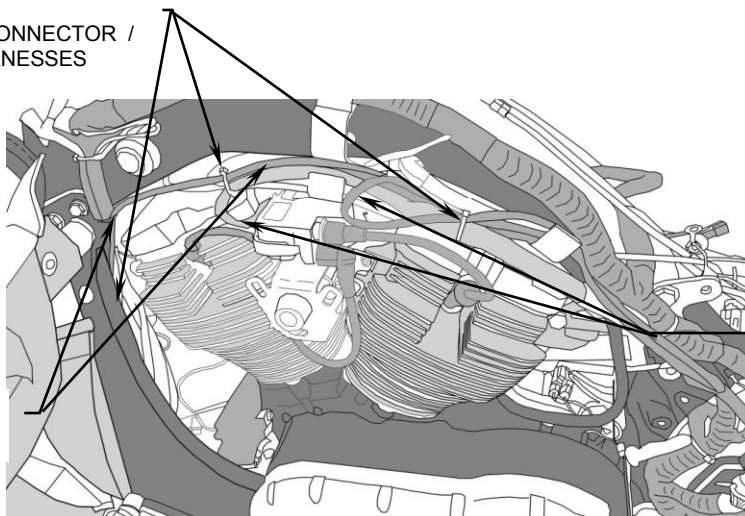HARNESS TO FUEL
INJECTORS AND
FRONT O_2 SENSOR

STOCK ECU

STOCK ECU
HARNESS

POWRPRO
INSTALLATION
LOCATION

FIGURE 3

ZIP TIE LOCATIONS
FOR P.P.T. INJECTOR CONNECTOR /
FRONT O_2 SENSOR HARNESSES

PPT, INJECTOR
HARNESS ROUTING TO
FUEL INJECTORS

HARNESS ROUTING
FOR FRONT O_2

FIGURE 4

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REAR CYLINDER
FUEL INJECTOR /
CONNECTOR

FRONT CYLINDER
FUEL INJECTOR /
CONNECTOR

PULL RED LOCK
TAB UP

PRESS BLACK
TAB IN TO
REMOVE
CONNECTOR
FROM INJECTOR

PULL
CONNECTOR IN
THIS DIRECTION
TO REMOVE
FROM INJECTOR
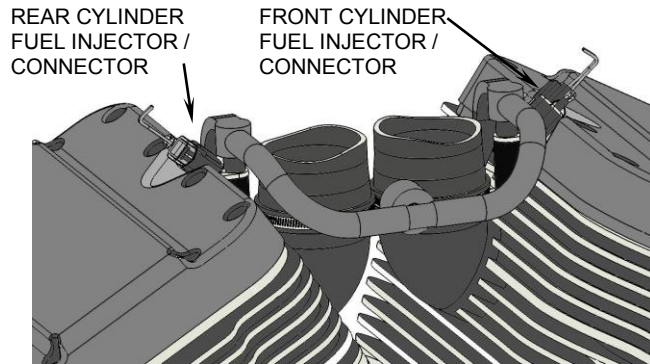
FIGURE 5
(Note, Air box not shown for clarity)
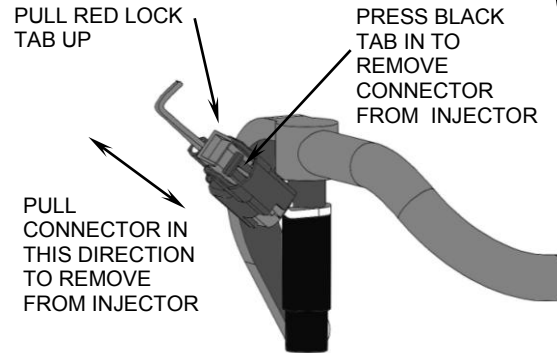
FIGURE 6
(Rear Injector shown, Front similar)

DEPRESS TAB AND
PULL APART

STOCK FUEL
INJECTOR
CONNECTOR

STOCK FUEL
INJECTOR
CONNECTION

STOCK FUEL
INJECTOR
FRONT

FUEL RAIL ONLY SHOWN
OTHER COMPONENTS OMITTED FOR
CLARITY

STOCK FUEL
INJECTOR
REAR
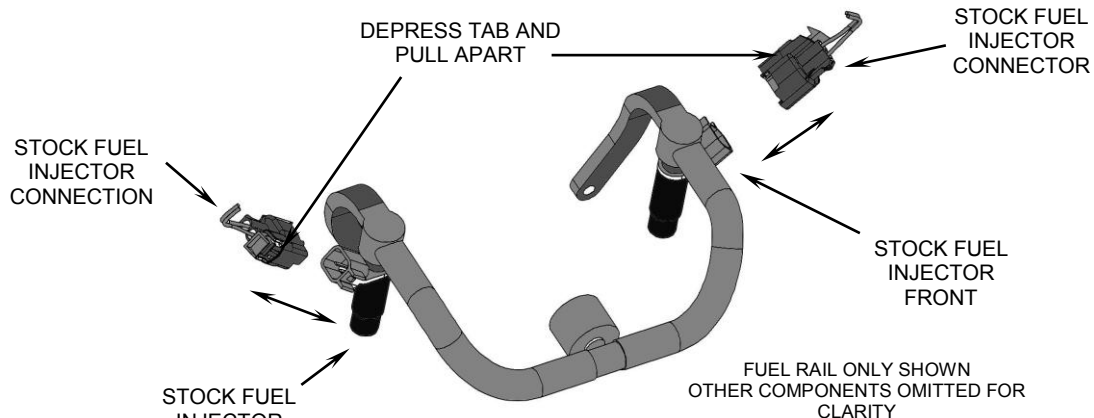
FIGURE 7
(APPLIES TO FRONT AND REAR INJECTOR CONNECTORS)

STOCK REAR
FEMALE
INJECTOR
CONNECTOR

P.P.T. FRONT FEMALE
INJECTOR CONNECTOR

FRONT CYLINDER
INJECTOR

STOCK FRONT
FEMALE
INJECTOR
CONNECTOR

P.P.T. REAR MALE
HARNESS
CONNECTOR

REAR CYLINDER
INJECTOR

P.P.T. FRONT
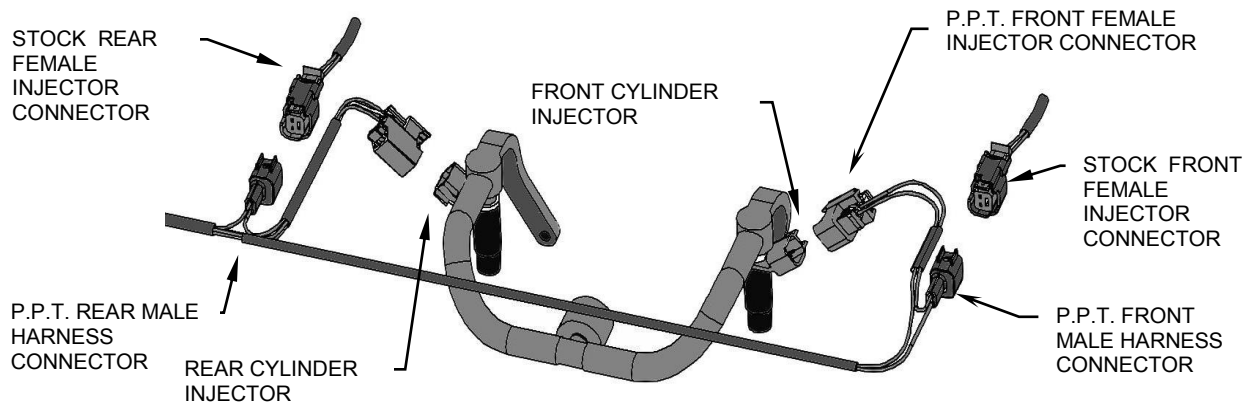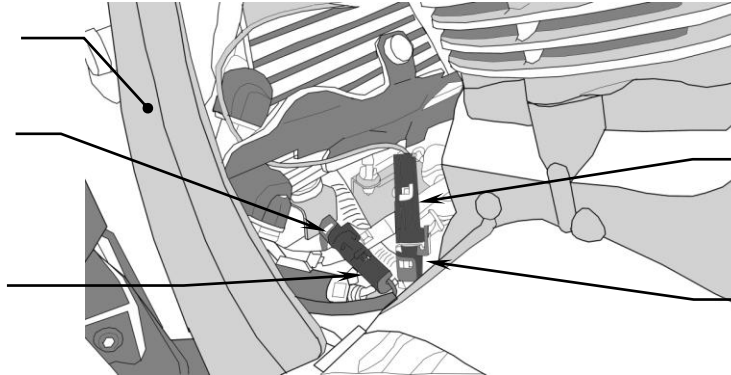MALE HARNESS
CONNECTOR

FIGURE 8
(APPLIES TO FRONT AND REAR INJECTOR CONNECTORS)

Fi2000®

LEFT FRONT FRAME RAIL

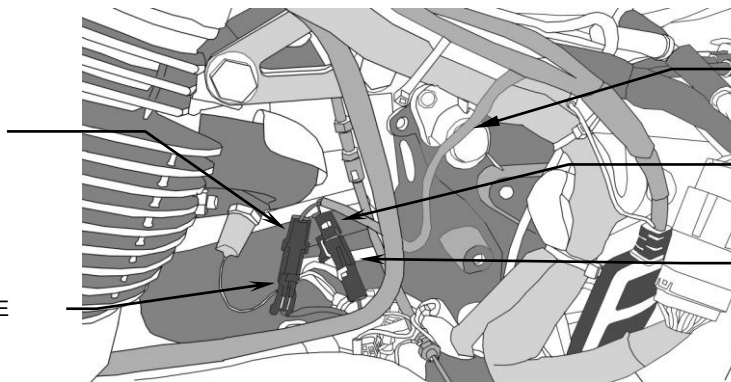STOCK FRONT MALE O_2 CONNECTOR

PPT FEMALE FRONT O_2 CONNECTOR

STOCK FRONT FEMALE O_2 CONNECTOR

PPT MALE O_2 CONNECTOR

FIGURE 9

PPT FEMALE REAR O_2 CONNECTOR
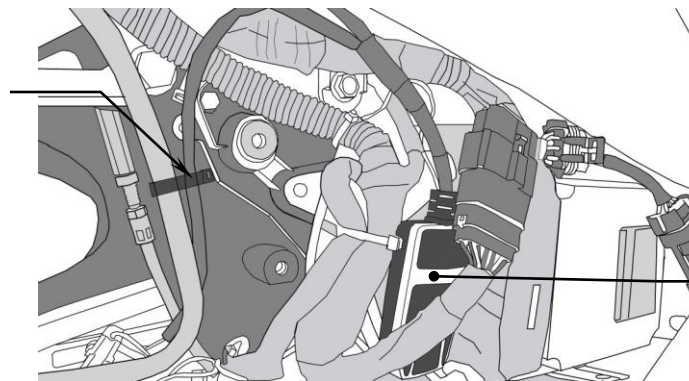
STOCK REAR MALE O_2 CONNECTOR

ROUTING FOR REAR O_2 SENSOR HARNESS

PPT MALE O_2 CONNECTOR

STOCK REAR FEMALE O_2 CONNECTOR

FIGURE 10

ZIP TIE REAR PPT O_2 SENSOR HARNESS TO VACUUM LINE

POWRPRO TUNER SECURED INTO POSITION WITH VELCRO AND EXISTING HARNESSES

FIGURE 11

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