

Items Supplied >

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

Application(s) >

HARLEY DYNA 2012-2017

Instruction Manual >

692-1616B

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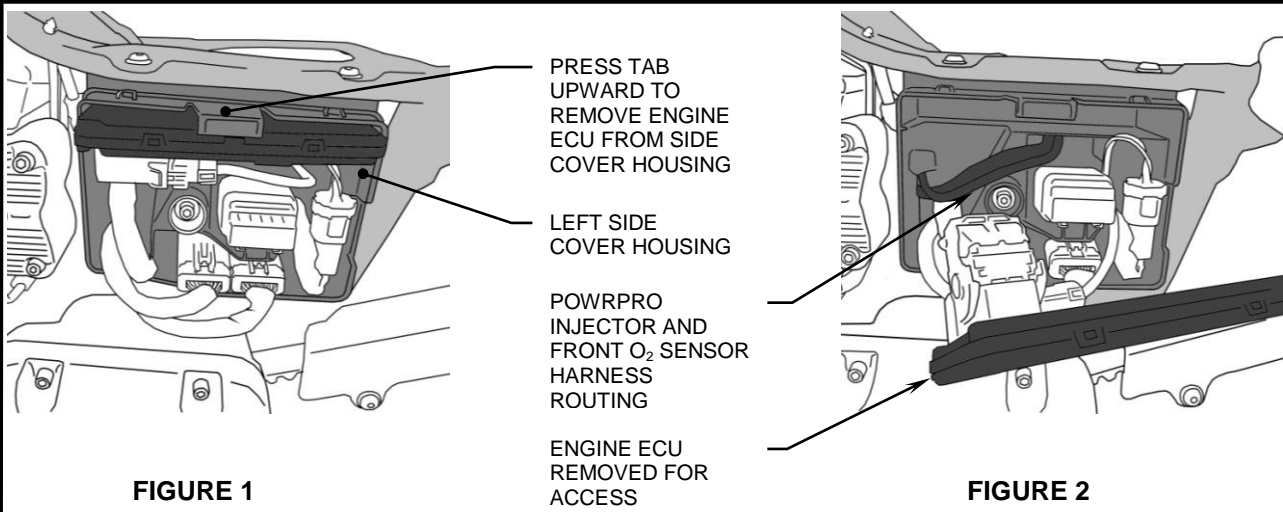
Read all instructions carefully and completely before installing your new POWRPRO module. It is recommended that a qualified mechanic or technician install this product.

1. Remove the seat, and air cleaner assembly, remove both front and rear gas tank mounting bolts. Prop the rear of the gas tank up approximately 2"-4" 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, see Figure 1.
3. Pull engine ECU outward by releasing from retaining tab to allow for Powrpro wire harness installation, Figure 2.
4. Pull existing wire harnesses out from under the seat frame area. Place the Powrpro tuner and harness in the area which is under the seat, see Figure 3. Route the two longer Powrpro harnesses through the left side cover area where the ECU was pulled out, see Figure 2, and continue routing both through the hole at the front of the left side cover inner housing, be sure to REVIEW in Figure 2! The longest harness must be routed to the right side of the motorcycle next to the starter, and ground lug on case. The other harness will go to the injectors. Once harnesses have been pulled into place, be sure to reinstall engine ECU back into place, being sure none of the harnesses get stuck on the other electrical components, it must snap back into place under the tab.
5. Route the injector harness to the front and rear fuel injectors located between the cylinder heads, along the right side of the upper frame backbone. Place the harness in the plastic harness channel provided along the frame. 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 one of the existing HD harnesses, at the front of the plastic harness tray, along the frame rail, under the tank, using the supplied 4" zip tie.
7. Remove right side cover by removing Phillips screw at bottom of cover and lifting bottom of cover outward and up to release from upper tabs. Route the black ground wire from the Powrpro through the gap just under the frame and to the rear of the battery box. Attach the ring terminal to the negative post of the battery.
8. Route the longest Powrpro oxygen sensor harness from rear of engine area to below battery and next to starter. Remove the nut securing ground wire and pull off ground wire to allow connectors to pass through between rear of transmission case and harness sheath in front of swingarm, see Figure 5. Reinstall nut.
9. Continue routing connectors and harness forward along lower right frame rail, be sure to keep clear of brake rod and linkage. Route forward to voltage regulator. Remove the two Allen bolts holding the voltage regulator onto the lower front frame, see Figure 6. Let it drop down, then directly behind that is a black plastic panel. Hinge that panel down to access the plugs behind it. **Continued to next page!**

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9. **Cont.:** Locate the front oxygen sensor connection, slide it off its holding pin and unplug the connector. Plug the Powrpro O₂ sensor harness male connector into the O₂ sensor female connector and slide them back onto stock plastic panel location. 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. Reinstall the panel and the voltage regulator. Leave a small amount of slack in harness at connector and zip tie along lower right frame rail in 3 locations.
10. Locate the black waterproof connector in the wire harness bundle that was tucked down into the open area under the seat, see Figure 3. 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. Mate the stock male connector with the female Powrpro connector. Be sure connectors are fully seated.
11. Remove the block propping up the fuel tank and lower fuel tank back into proper position.
12. 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.
13. Remove the backing from the Velcro and attach the Velcro pad down between the back of the battery and the ECU on the flat area of the frame. Apply the mating Velcro to the back of the Powerpro and attach, see Figure 3.
14. Reinstall the right side cover, be sure the Phillips screw is properly secured. Reinstall left side cover and be sure that it is properly secured by the tab which keeps it in place. Reinstall fuel tank bolts.
15. Reinstall seat and air cleaner, secure any fasteners loosened during assembly.

TROUBLE SHOOTING: If you have any problems refer to Step 12 in the main body of the instructions.



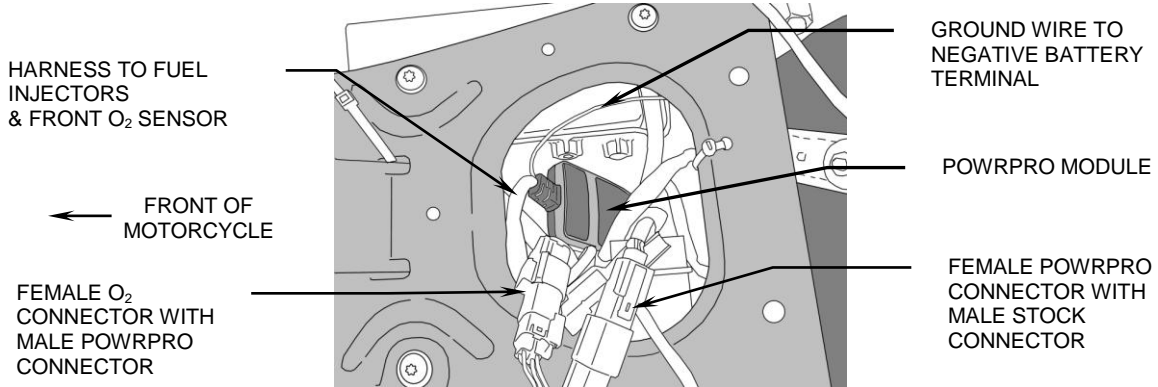


FIGURE 3

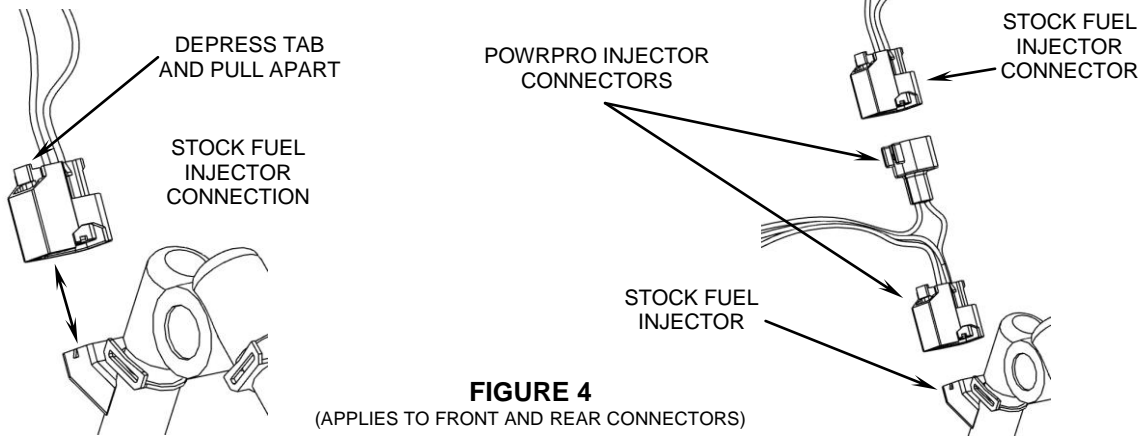


FIGURE 4
(APPLIES TO FRONT AND REAR CONNECTORS)

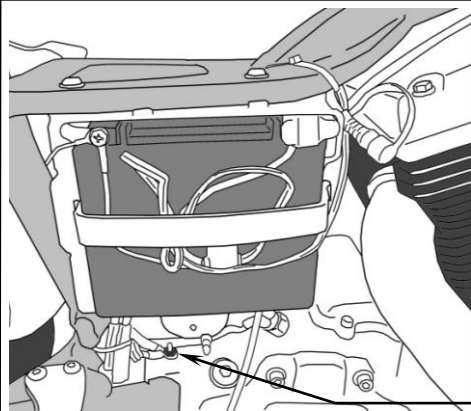


FIGURE 5

RIGHT FRONT FRAME RAIL
FEMALE O₂ CONNECTOR WITH MALE POWRPRO CONNECTOR ATTACHED TO PLASTIC PANEL, MATING CONNECTOR SECURED NEXT TO IT.

VOLTAGE REGULATOR BOLTS REMOVED AND REGULATOR LOWERED FOR ACCESS TO O₂ CONNECTORS

REMOVE GROUND NUT FOR FRONT POWRPRO O₂ HARNESS INSTALLATION

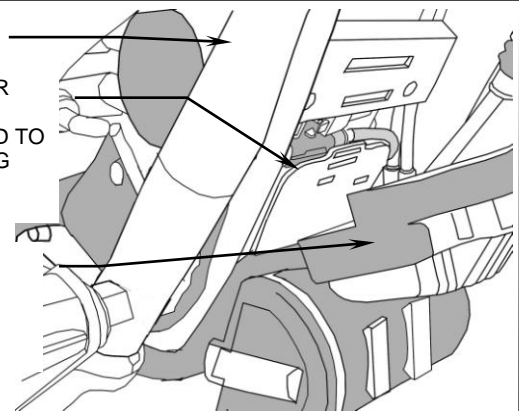


FIGURE 6

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