

Items Supplied >

1 – Fi2000AT Fuel Injection Module
3 – Zip Ties 6"

Application(s) >

HARLEY ROCKER

2008-2010

Instruction Manual >

692-1611AT

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Read all instructions carefully and completely before installing your new Fi2000AT module. It is recommended that a qualified mechanic or technician install this product.

1. Unbolt the seat and remove the plastic battery cover. Disconnect the positive and negative battery terminals and remove battery from motorcycle.
2. Remove the rear gas tank cover nut. Unbolt the front gas tank bolt, nut and washers. Remove the rear tank nut located underneath the tank cover. Prop the rear of the gas tank up approximately 2". **Note:** Do not put strain on the fuel lines connected to the bottom/front portion of the gas tank. Also be careful not to scratch the paint in this area.
3. Under the gas tank locate the factory female 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. See Figure 1.
4. Lay the Fi2000 module in the area underneath the seat, but do not attach it to the motorcycle. Route the injector wire harness forward up the right side of the frame backbone and under the plastic wiring cover.
5. Attach the Fi2000 module's forward female injector plug, to the front injector. Take the original female H.D. connector and insert the corresponding Fi2000 male connector into it. See Figure 1.
6. Attach the Fi2000 module's shorter rear female injector plug, onto the rear injector. Then take the original female H.D. connector and insert the corresponding male Fi2000 connector into it. See Figure 1. Make sure all connectors are routed and tucked away to prevent chaffing on the engine.
7. To install the rear O₂ sensor harness remove the plastic push rivet located under the battery. See Figure 2. This will release the O₂ sensor connector under the oil tank. Unplug the factory O₂ connector.
8. Route the two Fi2000 O₂ sensor harnesses down to the oil tank through the opening on the right side of the battery tray. Using the shorter Fi2000 O₂ sensor harness connect the corresponding male and female connectors with the stock rear O₂ sensor connectors. Reinstall the plastic push rivet removed in Step 7 into the original location.
9. Route the longer Fi2000 O₂ sensor harness down and forward along the right frame rail. Follow the factory harness to the front of motorcycle where the voltage regulator is mounted.
10. Remove the 2 Allen bolts that secure the voltage regulator bracket to the frame, and remove the rectangular cover over the top of this bracket. Ease the voltage regulator forward just enough to access the front O₂ connector. Unplug the connector and then plug the Fi2000 female connector into the original H.D. male connector and Fi2000 male into the corresponding H.D. female connector. Replace these connectors into the voltage regulator bracket using the stock wiring clips and re-assemble onto the bike, making sure the Fi2000 wire exits the bottom/right corner of the cover just like the original wire was routed. See Figure 4 for connector and wiring placement.

* **Cobra® recommends you always wear a helmet while riding. Please never operate your motorcycle while under the influence of alcohol and/or drugs. Enjoy the new look of your motorcycle and please ride safely.**

11. Using the supplied zip ties secure the front O₂ wiring harness to the stock wiring harness and frame rail in (3) locations. See Figure 5.
12. Reinstall the battery to the stock location and connect the Fi2000 ground wire to the negative post along with the other accessory wires. Connect the battery terminals to their appropriate posts. See Figure 3.
13. 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.
14. Place the Fi2000 box on the left side between the battery and frame. See Figure 3.
15. Reinstall the fuel tank and seat in the opposite order they were removed, as well as the regulator and cover. Be sure all hardware is tightened to factory specifications.

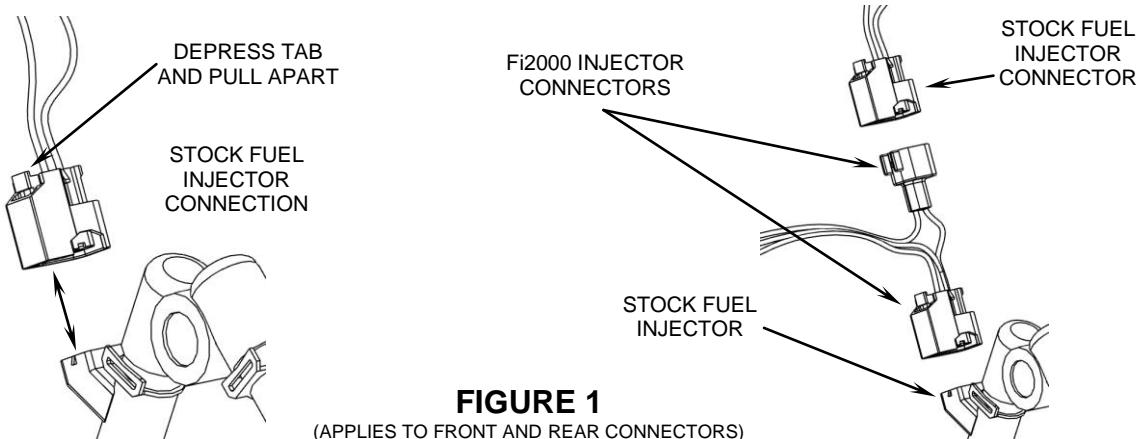


FIGURE 1
(APPLIES TO FRONT AND REAR CONNECTORS)

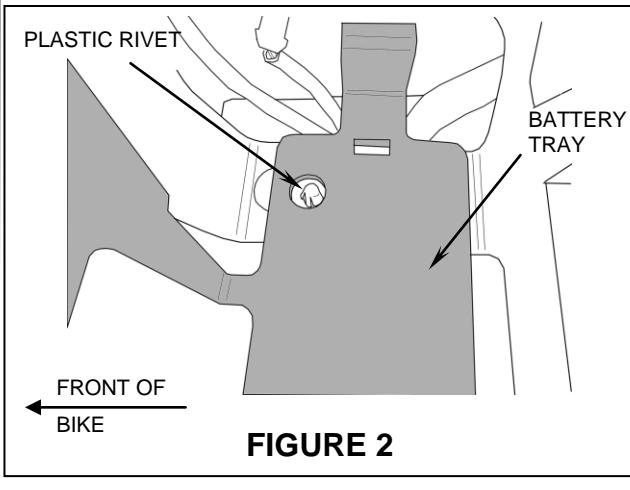


FIGURE 2

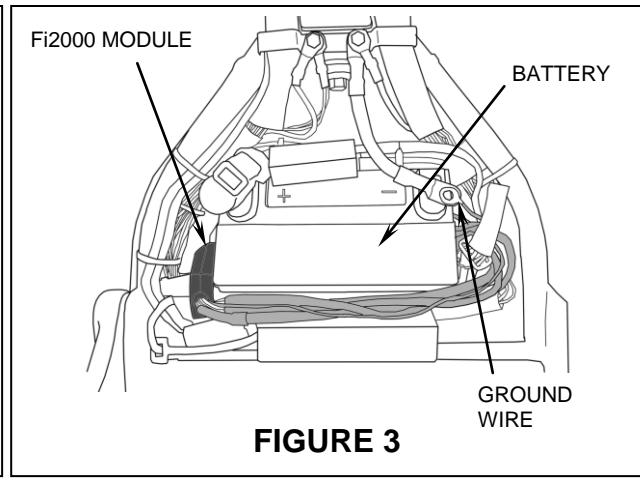
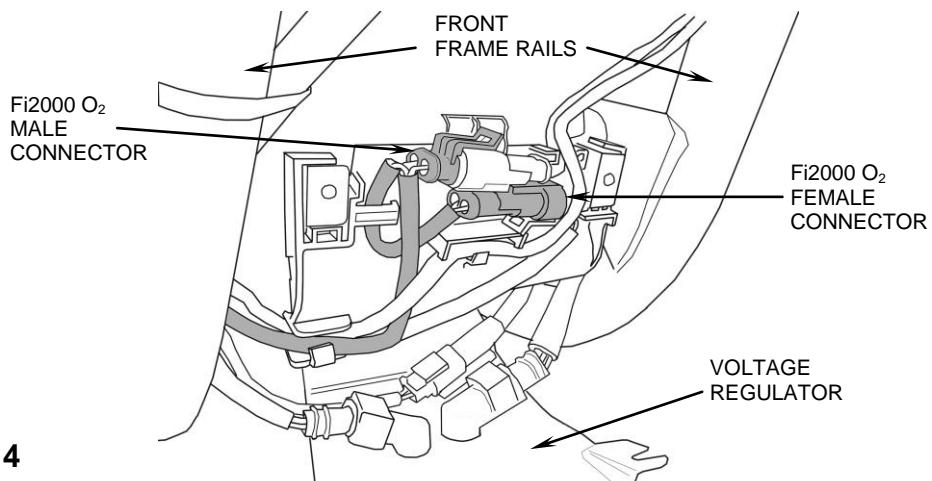


FIGURE 3

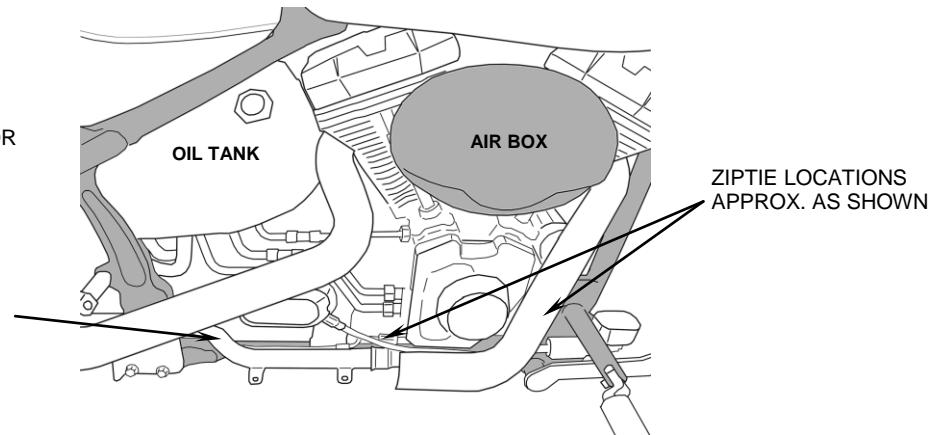
**FIGURE 4**

RIGHT SIDE VIEW OF MOTORCYCLE

STOCK MUFFLERS BODIES REMOVED FOR CLARITY

ZIPTIE LOCATION APPROX. AS SHOWN

ZIPTIE LOCATIONS APPROX. AS SHOWN

**FIGURE 5**

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.