

Items Supplied >

- 1 – Fi2000R Fuel Injection Module
- 2 – Zip Ties
- 1 – Velcro Stripe

Application(s) >

HARLEY SOFTAIL 2006 FXST/FLST

Instruction Manual >

92-1604R

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Read all instructions carefully and completely before installing your new Fi2000R 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".
2. 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. If you need additional access to the fuel injector connectors, you can remove the Idle Air solenoid by removing the two 5/16" bolts holding it on and loosening the Torx #20 screw on throttle cable bracket. Make sure to use thread-locking compound when refitting the two 5/16" bolts and correctly position the o-ring when reattaching.
3. Lay the Fi2000R module in the area underneath the seat, do not attach it to the motorcycle, route the wire harness forward up the right side of the frame backbone for the Softtail, see Figure 1. Route the forward set of connectors under the upper motor mount.
4. Attach the Fi2000R module's forward injector plug, with the grey and red wires to the front injector. Take the original female HD connector and insert the corresponding Fi2000R male connector, with the brown and red wires, into it refer to Figure 2.
5. Attach the Fi2000R module's rear female injector plug, with the blue and red wires, onto the rear injector. Then take the original female HD connector and insert the corresponding male Fi2000R connector, with the green and red wires, into it. (Refer to figure 2)
6. Attach the black wire to the negative post of the battery on Softail models, see Figure 1.
7. Before re-installing the gas tank, seat and air cleaner assembly, verify your connections. Remove the door from the Fi2000 box to expose the LED's. Verify the wire connections by (1) turning the ignition on, prior to starting, and see if all three LED's are on steady. If you have no light, your ground connection (BLACK wire) has not made proper contact or your front injector connection is not complete. (2) After achieving a steady light from all three LED's, start the motorcycle, wait 15 seconds and let it idle, the green light should now be the only LED on. If all three LED's are still on after start up, verify you have attached the injector connectors correctly. Reattach the door when finished. **Note:** Make sure the ignition is turned off before changing any connection.
8. Remove the backing from the Velcro and attach the Fi2000R as shown for Softails in Figure 1.
9. Re-install the seat and air cleaner assembly.

*** For California riders we offer Air Resources Board approved Fi2000 ARB units with Executive Order number D-633-2. All other Fi2000 models are not legal for street use in California.**

ADVANCED TUNING

Your Fi2000R fuel injection module has been tested and preset for best function and rideability on a motorcycle with aftermarket air cleaner, aftermarket performance exhaust, and no download, (ECU Flash.) The Fi2000R does however, have 3 important adjustments that allow you to tune the module for optimum performance, especially if you have performed other changes to your motorcycle. These adjustments also allow you to resolve drivability issues if our stock settings are not exactly right for your bike. Make sure your motorcycle is up to normal operating temperature (15 minutes of riding should be sufficient) before making any adjustments. Remove the door to expose the pots shown in Figure 3.

GREEN LED POT (left pot) - this adjustment affects idle and cruise fuel. If you have cruising issues, this is where you would try a different setting. Generally, surging and uneven running while cruising is a lean fuel condition, so try adding a small increase in fuel by turning the adjustment clockwise with a small flat blade screwdriver a 1/2 of a position. Test-drive the bike to feel an improvement and only increase the setting until the surge goes away. Also, backfiring or popping on trailing throttle is generally a lean symptom (or an exhaust gasket leak). Try the same small increases as above just until the backfiring goes away.

YELLOW LED POT (middle pot) - this adjustment affects acceleration and power fuel. If you have a hesitation or bogging on acceleration, this is where you would try a different setting. Aftermarket air cleaner assemblies generally lean out fuel mixtures, so try small clockwise increases as above until a smooth acceleration returns.

RED LED POT (right pot) - this adjustment is the top end or power fuel adjustment. Just like the main jet in a carburetor, it starts to control fuel as you demand maximum power from your bike and takes over completely above 4000 R.P.M. As performance gains are added to your motorcycle, such as big bore kits, camshafts, flowed cylinder heads, etc., each component will increase the fuel demand of the system. With the red pot turned to its maximum (10) position, the Fi2000 will cope with nearly 100 R.W. horsepower. An all-stock motor will only require a 2 position. You can generally, if you are using quality performance engine upgrades, in a sensible combination equate the numbers evenly from 2 up to 10 based on horsepower gains.

TUNING NOTES

Typically 2 into 1 or our speedster exhaust system require one additional position, on the yellow and red pots, over slip-ons or staggered duals.

On high performance motors, slip-on mufflers do not flow well enough and create fuel setting problems and detonation. The installation of a complete exhaust systems is recommended.

TROUBLE SHOOTING

If you have any problems refer to note 7 in the main body of the instructions

Tech Support <https://fi2000.com>

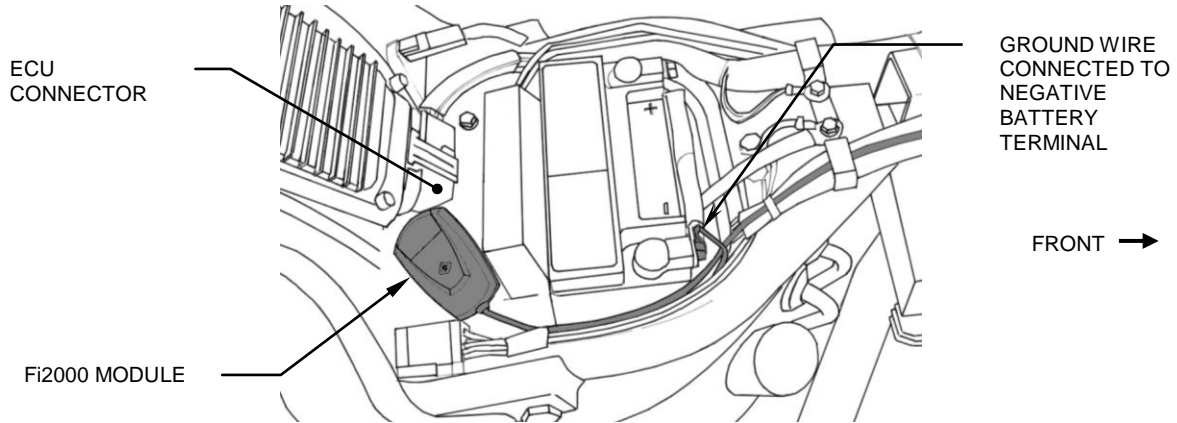


FIGURE 1
(SOFTAIL 06)

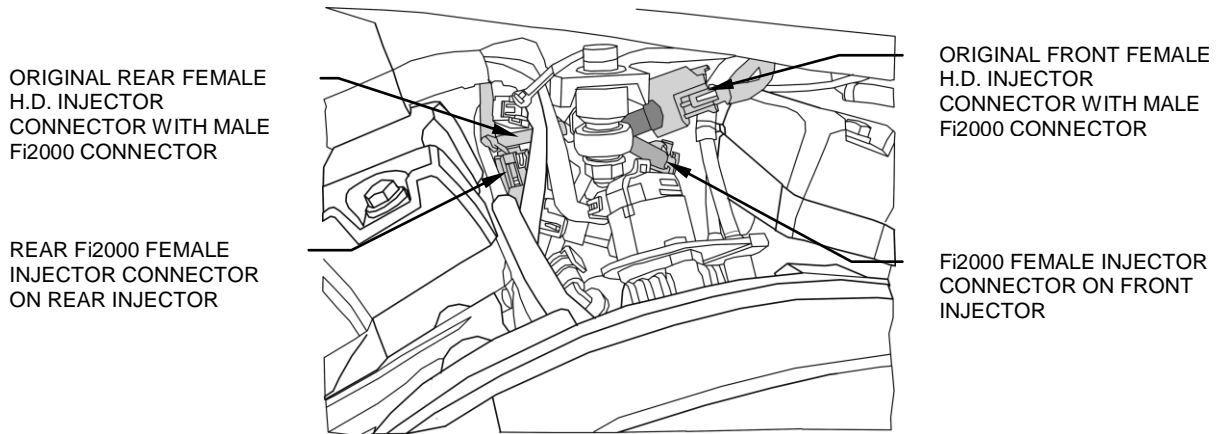
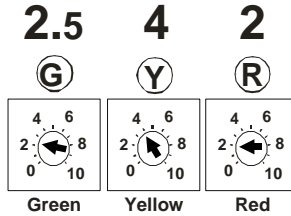


FIGURE 2
(SOFTAIL w/Fi2000R installed with Air Injector Solenoid removed)

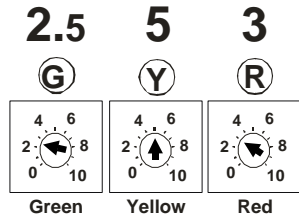
FIGURE 3

Fi2000 Default pot setting

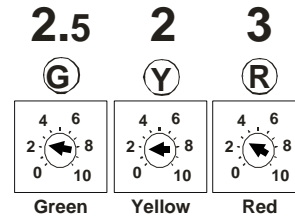
**All Stock
No Downloads**
Default Pot Settings:



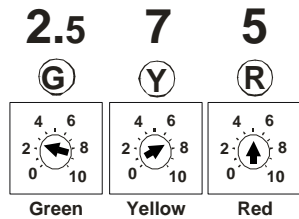
**Aftermarket Air Cleaner, Exhaust
No Downloads ***
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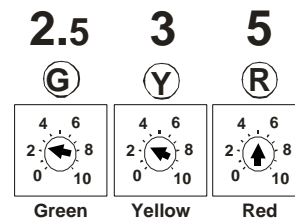
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With #1 Download ***
Default Pot Settings:



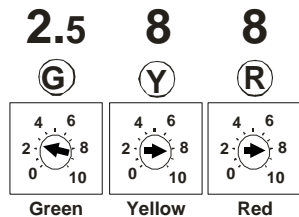
**Stage 2 Motor 95cu. In., Cam, Exhaust
No Download ***
Default Pot Settings:



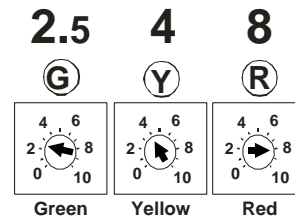
**Stage 2 Motor 95cu. In., Cam, Exhaust
With #2 Download ***
Default Pot Settings:



**Stage 3 Motor 80+ Hp
No Download ***
Default Pot Settings:



**Stage 3 Motor 80+ Hp
With #2 Download ***
Default Pot Settings:



* If you have installed a screamin eagle air cleaner system the pot settings will need to be set 1 position lower than shown. (Example: The green pot will need to be set at 1.5 instead of 2.5, etc...) You can identify the screamin eagle air cleaner by the blue rubber rings.