Fi2000_®

Items Supplied >

- 1 Fi2000R Fuel Injection Module
- 5 Zip Ties 6"
- 1 Velcro Stripe

Application(s) >

HARLEY DYNA CLOSED LOOP FLHT/ FLHR/ FLTR/ FLHX 2007

nstr	ruction Manual >	92-1606CL	Page 1 of 4
NG efer 007	ENTION: All 2007 Harley DYNA models ma INE CONTROL MODULE CALIBRATION up rence Harley Davidson SERVICE BULLETIN Y DYNA models with this update and all 200 uld already have this update installed, chec	date from a Harley Davidson Deal I M-1186. This Fi2000R is meant t 7 DYNA models manufactured aft	er; please o function on all er this date which
	d all instructions carefully and completely b mmended that a qualified mechanic or tech		R module. It is
1.	Remove the seat and air cleaner assembly, remo rear of the gas tank up approximately 2".	ve both front and rear gas tank mounting	g bolts. Prop the
2.	Locate the factory connector on each fuel injector free and move it out of the way. Note: A pair of n with this job. If you need additional access to the solenoid by removing the two 5/16" bolts holding bracket. Make sure to use thread-locking composi- the o-ring when reattaching.	needle nose pliers and a long flat blade s fuel injector connectors, you can remov it on and loosening the Torx #20 screw	crewdriver helps re the Idle Air on throttle cable
3.	Lay the Fi2000R module in the area underneath t injector harness forward up the left side of the fran right side just ahead of the rear cylinder head, Se upper motor mount.	me using the plastic harness protector a	nd across to the
4.	Attach the Fi2000R module's forward injector plug original female HD connector and insert the corre wires, into it, refer to Figure 2.		
5.	Attach the Fi2000R module's rear female injector Then take the original female HD connector and in green and red wires, into it, refer to Figure 2.		
6.	Remove the right hand battery cover, route the blaunder the frame and to the rear of the battery box		
7.	It is now time to install the oxygen sensor harness harness to the ECU bracket and pull that harness the remaining wiring up and out of the space betw on the left. Feed the longer of the two oxygen ser frame. Pull the harness from underneath and rout rear master cylinder so that the harness ends up of harness forward along the right frame rail and stoo front of the engine.	ses. Cut the factory zip-tie holding the re- up and out of the way, see Figure 1. Re- veen the battery box on the right and the nsor harnesses down between the rear f te it just ahead of the swingarm, then do coming out at the bottom of the bike. Re-	ear fender wire each down and pull ECU electrical box ender and the wn just behind the bute the O_2 sensor

Fi2000®

Instruction Manual >

92-1606CL

Page 2 of 4

- 8. Ziptie the O₂ sensor harness to the main wire harness on the frame rail.
- 9. Remove the two Allen bolts holding the voltage regulator onto the lower front frame, see Figure 3. Let it drop down, then directly behind that is a black plastic panel. Hinge that panel down to access the plugs behind it. Locate the front oxygen sensor connection, slide it off its holding pin and unplug the connector. Plug the Fi2000 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 Fi2000 connector, double up any slack and secure with zip ties to rightside framerail. Reinstall the panel and the voltage regulator.
- 10. Locate the black waterproof connector in the wire harness bundle that was tucked down into the open area under the seat, see Figure 1. Unplug the female connector that comes from the rear oxygen sensor, and mate it with the male connector from the shorter Fi2000 O₂ sensor harness. Mate the stock male connector with the female Fi2000 connector.
- 11. 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.
- 12. 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 Fi2000R and attach, see Figure 1. Replace the rear fender wire harness above the Fi2000R.
- 13. Re-install the seat, air cleaner assembly and gas tank mounting bolts.

ADVANCED TUNING

Your Fi2000 fuel injection module has been tested and preset for best function and rideabilty on a motorcycle with aftermarket aircleaner and an aftermarket performance exhaust. The Fi2000 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 4.

GREEN LED POT (left pot) – With the Closed Loop function of this module you do not need to adjust this setting, leave it at 1.5. Without a closed loop system this adjustment would affect idle and cruise fuel. If you had cruising issues, this is where you would try a different setting. Generally, surging and uneven running while cruising is a lean fuel condition, so adding a small increase in fuel by turning this adjustment clockwise with a small flat blade screwdriver a 1/2 of a position would help. The bike would need to be Test-driven to feel an improvement and only the setting would need to be increased until the surge went away. Also, backfiring or popping on trailing throttle is generally a lean symptom (or an exhaust gasket leak). The same small increases as above would be tried just until the backfiring would disappear.

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.

DOCUMENT NO. 0018 REV. A

Fi2000®





