Fi2000®

Items Supplied >

- 1 Fi2000R Fuel Injection Module
- 1 Zip Tie, (1): 3/16" x 8"
- 1 Velcro Strip

Application(s) >

YAMAHA V-STAR 1300 TOURER 2007 - 2018

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n in	The use of the Closed Loop Module 92-177 notorcycle will continue use of the Oxygen 5 tended for motorcycles that will not utilize 0	Sensors in your exhaust System.	This Fi2000 is
	Read all instructions carefully and comple It is recommended that a qualified me Before installing the Fi2000 it is recon	echanic or technician install this	product.
1.	Remove the seat. Remove the two 12 mm he the tank up securely to allow access to the fu		fuel tank, prop
2.	Position the Fi2000R module in the area und latch bracket and route it forward between the		
3.	Locate the four prong white connector up und this connector then plug each male and fema connectors, see Figure 2. Tuck these connect	le connector into the corresponding	stock
4.	Remove the three Allen screws from the trian the exhaust pipe to access the O ₂ sensor cor Fi2000R to compinsate for fuel properly. The mode allowing the Fi2000R to take full advan	nection. Unplug this connection to motorcycle will run in its default op	allow the en loop fuel
5.	Velcro the Fi2000R module to the black fuel p battery cover to access the negative post of t to the negative post. Reinstall the cover. Be	he battery. Attach the ground wire	from the Fi2000
6.	Remove the door from the Fi2000R module to settings come preset from the factory for the connections by, (1), turning the ignition on wh few seconds, and then go off. This is correct stand is up, bike is in neutral, clutch is in and still no lights visible, re-check that all connect connected correctly.	V-Star 1300, shown in (Figure. 3.) hile watching the 3 LED's. They will . If there are no lights visible, make handlebar engine switch is set to ru	Verify the wire all light up for a sure the side un. If there are

* 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.

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6. Continued: (2), after achieving a steady light from all three LED's, start the motorcycle; the green light should now be the only LED on. If all three LED's are still on after start up, verify the injector connectors are correctly attached. Reattach the access door when finished and install the remaining components. **NOTE:** Make sure the ignition is turned off before changing any connections.

ADVANCED TUNING

The Fi2000R has the ability to efficiently tune the EFI system on your motorcycle for slip-on or full exhaust systems. It comes pre-set from the factory for popular brand name slip-on mufflers. Both dyno testing and on-road exhaust gas analysis have been used to develop the best base settings for drivability and power. Not all slip-on mufflers flow exactly the same. Some eliminate power valves and others don't. Some are made with street baffles, other with race or competition baffles. Full exhaust systems offer even greater variation in construction, features and performance. The Fi2000R has the ability to tune the EFI system on your motorcycle to any of these exhausts by applying a logical and systematic approach to altering the base settings supplied with your Fi2000R. These suggestions should be followed step by step and help you achieve success.

** Only attempt adjustments on a fully warmed motor **

- 1. Start with the base setting, even if you have a full exhaust system. Adjust and test only *ONE* adjustment pot at a time until you are happy with the result.
- 2. Start with the left hand or green light pot. This adjustment works either from idle or above idle (varies with bike) to a R.P.M. of about 5000 (also varies with bike) while the bike is driven at a steady throttle or slowly increasing throttle. This is the cruise range and is where the emissions leanness creates issues like choppy on-off throttle application, surging, and backfiring on trailing throttle.
- 3. Turn this pot back to zero, and make one position increases until you feel the best performance in this range. Do this test a few times to make sure you have it right.
- 4. The middle or yellow pot is an engine load- triggered fuel adding adjustment. A rapid increase of the throttle at any R.P.M. will add additional fuel and as long as that predetermined load is present, fuel will continue. As engine loads increase in higher gears the acceleration fuel will stay on longer and be more effective. Starting with the base setting, test ride the motorcycle in 4th or 5th gear and perform moderately fast roll-on throttle from a repeating standard R.P.M. or speed. Increase the pot one position at a time and stop as soon as you don't feel any improvement.
- 5. The right hand or red pot is for the fuel setting required when the engine is maximizing its R.P.M. and power delivery. This pot is similar to the main jet in a carburetor. It will take a combination of a minimum R.P.M. and a predetermined amount of engine load to initiate this fuel. The straightaway on a racetrack or an inertia dyno are the best places to set this pot. Full exhaust systems of high quality construction increase flow characteristics and will increase fuel demands over our base settings. Also, air filters specifically designed for higher than stock airflow can create need for higher fuel setting. Try an additional one-position pot setting at a time.
- 6. Camshaft changes can alter an engine's volumetric efficiency and create a greater demand on the engine's fuel system than the Fi2000R may have the ability to adjust for.

TROUBLE SHOOTING

If you have any problems refer to: Step 6, in the installation body of these instructions. **Tech Support https://fi2000.com**

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