# Fi2000<sub>®</sub>

## Items Supplied >

- 1 Fi2000R Fuel Injection Module
- 2 Zip Ties 6" #18 Test
- 1 Velcro Strip

### Application(s) >

Kawasaki Vulcan 1500 Classic 05-08

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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. Before installing the Fi2000R it is recommended that the gas tank be low on fuel.				
1.		Its securing the fuel tank, disconnect the ver cond vent tube under the tank and then secu ar from the frame rails to allow access to the	rely prop	
2.	connectors onto the injectors, using the lor and the shorter Fi2000R female connector	el injector plugs. Install the gray Fi2000R fer nger Fi2000R female connector on the vertic on the horizontal injector, see Figure 1. No presponding original female injector connec	cal injector w plug the	
3.	Run the harness down the left side of the f harness to secure it in place.	rame as shown in Figure 2. Ziptie it to the e	existing	
4.	Using the supplied Velcro pads, place the black ground wire from the Fi2000R to the	module in the position shown, in Figure 2. A negative post of the battery.	Attach the	
5.	Lower the fuel tank and reconnect vent line connections.	es. Prior to reinstalling fuel tank bolt and se	at, verify	
6.	(1), turning the ignition on while watching to then go off. This is correct. If there are no neutral, clutch is in and handlebar engines check that all connectors are fully engaged achieving a steady light from all three LED the only LED on. If all three LED's are still	e to expose the LED's. Verify the wire conn he 3 LED's. They will all light up for a few se lights visible, make sure the side stand is u switch is set to run. If there are still no lights and the ground wire is connected correctly 's, start the motorcycle; the green light shou on after start up, verify the injector connected for when finished and install remaining com before changing any connection.	econds, and p, bike is in s visible, re- . (2), after Id now be ors 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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### **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 4<sup>th</sup> or 5<sup>th</sup> 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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