

Electronic Jet Kit™ Instructions

Suzu

Suzuki

Thank you for choosing the Techlusion Electronic Jet Kit, the TFI. The TFI is usable for sequential fuel injection 2 cylinder Kawasaki, Suzuki motorcycles **.

Suzuki: 2002-08 DL1000 & SV1000

Photo installs for many applications are available at www.dobeckperformance.com in the support forum.

This product is a great fit for stock bikes with exhaust and intake mods. It is also capable of handling the fuel needs of big bore kits, light cams, and a variety of head porting.

This is an Electronic Jet Kit. Like jet kits in the past, the more you modify, the more responsibility you take in getting your fuel curve right. Going to www.dobeckperformance.com will help you obtain better high horsepower tuning.

Note: If your model is equipped with a O2 sensor in the exhaust, you will need to disable it or leave the first dial (green) at the 1:00 o'clock position. Any questions call tech support @ 877-764-3337

Due to the complexity of the newer motorcycles, dealer install may be required. Call for more details for installation or visit www.dobeckperformance.com for photo installs.

INSTALLATION PREP

- **Required Tools for:** Disconnecting the negative terminal of the battery
Removing your seat, side cover and/or tail section.
Small screwdriver for TFI adjustment.

INSTALLATION

(For any and all help during install or tuning please call us(8-5M.T. m-f), we can't help if you don't call)

1. Before installing the TFI you must first disconnect the negative lead from the battery.
2. Remove side panel screws (Pic 1). Then remove the side panels and place aside.
3. Remove seat mount hardware (Pic 2). Then remove the seat.
4. Remove front tank mount hardware (Pic 3.) Lift up tank and use something to support the tank in this position.
5. Place the TFI in the tail section which is the recommended mounting location. Use the included Velcro to secure the unit in position.
6. Route the TFI harness down the right hand frame. Connect the black ground wire to the negative post of the battery (Pic 4).
7. Route the TFI harness over the rear cylinder head and down the left side of the throttle body (Pic 5).
8. Locate the factory throttle body harness connector. It is between the left hand frame and the air box (Pic 6). Reach in through the left hand frame opening to find the connector. Once located disconnect the factory connection.
9. Pull the TFI harness connector out through the frame opening. You should now have access to the four connectors.
10. Mate up the connectors. Plug the factory male connector into the EJK female connector. Plug the factory female connector into the EJK male connector. (Pic 7)
11. With the rubber plug removed from the TFI, turn the motorcycle key switch to the "ON" position. As the bikes electrical system goes through initial start up mode you may see LED's flashing on the TFI.
12. Start the motorcycle. The TFI is programmed "not" to add fuel at idle. This "may" cause all the LED's to flash at idle, this is normal. Some models "may" have a solid green LED at idle, this is also normal. **If just the green or red LED's flash after startup or no LED's are visible or bike doesn't start, please confirm/retry all connections. If still a problem call tech support at 877-764-3337.**

Tuning

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Green LED pot(1st): Air fuel mixture screw adjustment. With TFI installed and the bike fully warmed up, screwdriver in hand, locate the green LED and the pot right below it. Using the throttle raise the RPM to a high idle or about 2000-RPM. Once there, slowly turn the green pot clockwise from the 1:00 position (off) until you achieve the highest RPM and smoothest running sound (like a mixture screw on a carburetor). You should find the best setting between 2:30 and 4:00 o'clock. If you turn the green pot clockwise and the engine does not accept any more fuel (RPMs drop when adding fuel) you may have one or more of these problems (See troubleshooting **Motorcycle**).

Yellow LED pot(2nd): Acceleration fuel adjustment (bottom to mid range fuel). Anytime the yellow LED is on, this pot is adding fuel. In neutral raise the RPM slowly up through the mid range and see no yellow LED. However, opening the throttle quickly from idle you "should" see the yellow LED come on. Fine tuning: Start with the suggested setting and then add ½ clock position at a time until the bike says too much (hesitation) then back off 1 clock position, if worse go opposite direction. If no yellow LED there is not enough load to turn it on. At that point the street or dyno will be able to show the difference. The yellow pot adds its fuel below 70% of maximum RPM.

Red LED pot(3rd): Main jet fuel adjustment (top end fuel). It adds about 2.5 points of main jet fuel with every clock position. For example, one clock position is the same as 150 to 152.5 main jets. Fine tuning: Start with the suggested setting and then add ½ clock position at a time until the bike says too much (hesitation) then back off 1 clock position, if worse go opposite direction. The red pot adds its fuel above 70% of maximum RPM.

RPM pot(4th): All V-twins. Sets the RPM that the red pot fuel (main jet fuel) turns on. One clock position is roughly 1000 RPM. This pot should be set to about 70% of redline. (For example: Suzuki M109R redlines at 5800 RPM and 4000 is roughly 70% of redline which would be 4:00 o'clock). On "some" dual plug systems (Kawasaki, Suzuki) you will need to double the RPM clock position to have the same results. Verify setting by raising the RPM in neutral, look for green and yellow LED to shut off and the red LED to turn on at the chosen RPM or refer to suggested settings if you have no tachometer.

TROUBLESHOOTING

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Motorcycle

Fuel injected bikes all have the same exact fuel curve and is corrected everyday by the on board weather station. Nothing is leaner than a stock fuel injection map. So with our box on and the bike fully warmed up, if you slowly turn on the green pot and the engine does not accept any more fuel (RPM drops when adding fuel) then you "may" have one or more of these problems.

(Order from most common to least common)

1. Engine not fully warmed up.
2. A vacuum leak on the intake.
3. High lift cams affecting map at light loads and low RPM.
4. Cylinder head temp sensor malfunction.
5. Loss of TPS and ECU sync.

POOR MILEAGE

Solution:

1. Check your green pot setting. This setting is generally responsible for 90% of your mileage. In the hundreds of installs performed, we have never gone beyond the 4:00 setting. Try backing down the green setting slightly. You can slightly lower the yellow and red settings also.
2. RPM pot adjusted too low**. Make sure the red LED is turning on no lower than 70-75% of the maximum rpm.
3. Make sure your engine passes the 2000-RPM test at the beginning of the troubleshooting chapter. If you still have mileage issues call tech support at 877-764-3337

**: Some engine setups can dictate a higher or lower setting on the RPM pot.

Figure 1



Figure 2

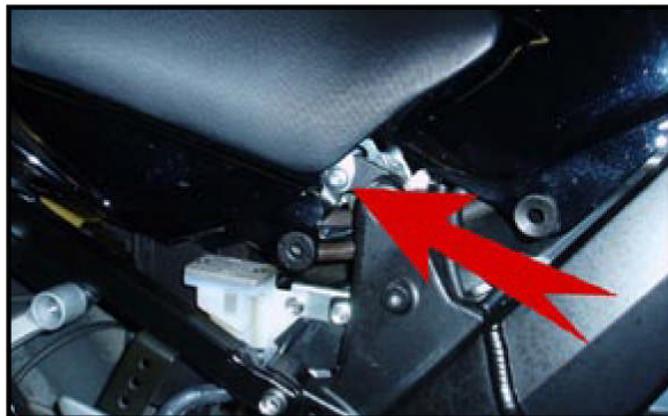


Figure 3



Figure 4



Electronic Jet Kit™ Instructions

Figure 5



Figure 6



Figure 7



Some vehicles modifications with Techlusion Inc. products must not be used on public roads and in some cases may be restricted to close course competition. Those products not identified as US EPA legal are intended for off-road or marine applications only. Not intended for use ON emission controlled vehicles.



2-year Unlimited Mileage Warranty

Techlusion warrants that this product carries a warranty for 2-years from date of purchase against original defects in materials and workmanship. Should this product fail to perform for either of the above reasons, Techlusion will repair or replace it with an equivalent product at no charge, except for postage, to the original retail purchaser.

*****IMPORTANT*****

To obtain the benefits of this warranty, the retail purchaser must first call 1-877-764-3337 to obtain a Return Authorization Number, then send the product with proof of purchase and postage prepaid to:

**Dobeck Performance
157 Progressive Dr.
Belgrade, MT 59714**

RECOMMENDED SETTINGS

Adjustments

The dials are to be adjusted like a wall clock. Range is from 1:00 –11:00.

