

Electronic Jet Kit™ Instructions



Thank you for choosing the Techlusion Electronic Jet Kit for your 2004 Polaris Sportsman 700.

This technology interfaces with your fuel injected ATV. The result is injection with carb tuning logic. Giving you the equivalent of enriching the pilot jet and mixture screw, (pot under the green light) raising the needle, (pot under the yellow light) and then install a larger main jet, (pot under the red light).

Due to the wide variety of applications we try to be very generic with our instructions, so if you need further assistance with an install call technical support at 1- 877-764-3337 or see our web site at dobeckperformance.com.

This product is a perfect fit for stock ATV's. It is also, capable of handling the fuel needs of pipes, air intakes, and a variety of head porting. If you find that your modification requires you to max out our pot adjustment, contact us and we can get you a custom chip.

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 dobeckperformance.com will better help you in achieving a good tune.

TOOLS REQUIRED

- **This is about a 15-minute install time.**
- **The tools required to remove your front cargo rack is a T27 torx bit.**
- **You will then require a T25 torx bit for the negative ground.**
- **And last but not least a small screwdriver.**





1. **Determine a location for the TFI box. We've shown a picture where we find to be the best mounting spot. (See Figure 2).**
2. **The black wire from our box is the ground. Again you have flexibility. You might choose the negative side of the battery. Or a common grounding lug, which we show below in figure. Use the ring terminal for the ground, supplied in the kit. You may cut a section out of the ring out, allowing you to slip the terminal under the bolt. (See Figure 7).**
3. **Turn the key on and check for a flashing green LED. If you have no flashing green LED, re-check power and ground wiring.**
4. **Start the ATV. The green LED should now be on steady and the yellow will flash rapidly for about 15 seconds, and then go out. If the green or red LEDs continue flashing after startup, an injector wiring error is indicated. Re-check the wire's from the TFI and make sure they are connected to the proper wire of your ATV's stock harness. MAKE SURE you have the correct wires selected in the stock harness. DO NOT PROCEED UNLESS YOU HAVE A STEADY GREEN LED.**



Tuning

We suggest that you set your pots to the setting that best matches your bikes modification. Further adjustments can be made by first having your ATV fully warmed up. Then with a screwdriver in hand, locate the green light and the pot right below it. Raise the RPM up to a high idle or about 1800-RPM if you have a Tach. Once there, slowly turn the green pot clockwise from the 1:00 position (or off) until you achieve the highest RPM and smoothest running sound (just like you would if you had a mixture screw on a carburetor). You should find that the best setting is between 1:30 and 3:30.

Next locate the yellow light and the pot below it. This pot adjustment acts as an accelerator pump adjustment. Anytime you see the light on, it means that this pot is adding fuel. You will notice that you can take the RPM slowly up to 3000-4000 in neutral and see no yellow light. But whack the throttle wide open quickly and you see the yellow light come on. Try to add as much as you can until the bike says it is too much then back off two clock positions. This yellow pot adds most of its fuel below 4000 RPM and full throttle acceleration.

The red light pot is your for main jet. It adds about 5 points of a main jet for every clock position. Example: one clock position is the same as 170 to 175 main jet. All we can say about setting up this pot is use the base setting that comes closest to your bikes modifications. Then use the same method you used, setting up your carbureted bikes.

Troubleshooting

Problems

First it is important that you understand that all modern day fuel injected ATV's have a big advantage over carbureted ATV's. Fuel injected ATV's all have the same exact fuel curve and is corrected everyday by the on board weather station. Which means your ATV fuel map is either ideal or it needs a little. Just like jet kits did for you for years. If you find that anything you do with the pots make it worse, stop and check these possibilities:

1. Engine not fully warmed up.
2. A vacuum leak on the intake or exhaust.



FULL THROTTLE

Simply add or subtract fuel with the red light pot to determine if the problem is better or worse. This lets the engine dictate additional adjustments or call tech support at 877-764-3337.

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**

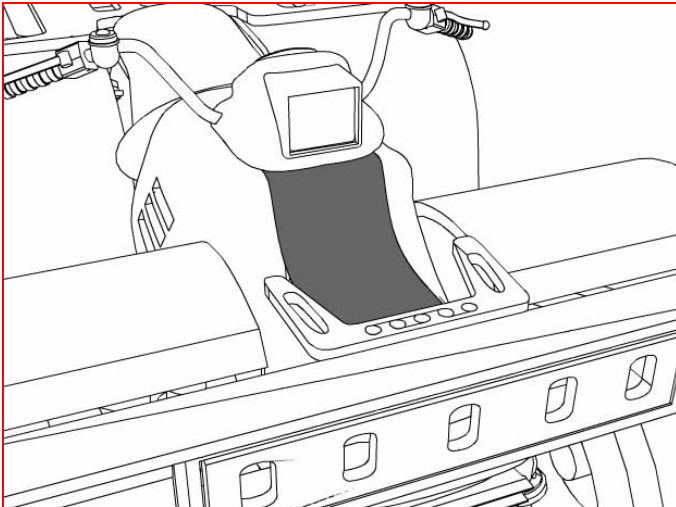
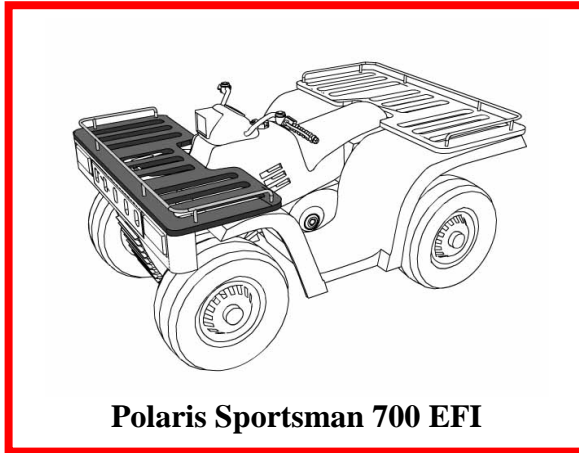


Figure 1

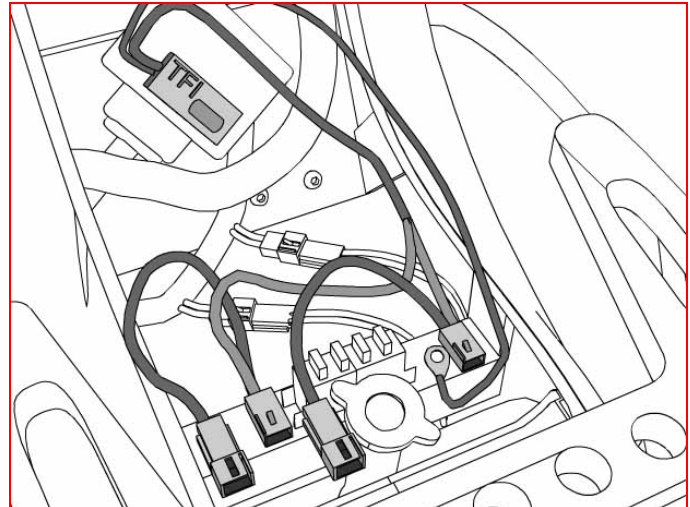


Figure 2

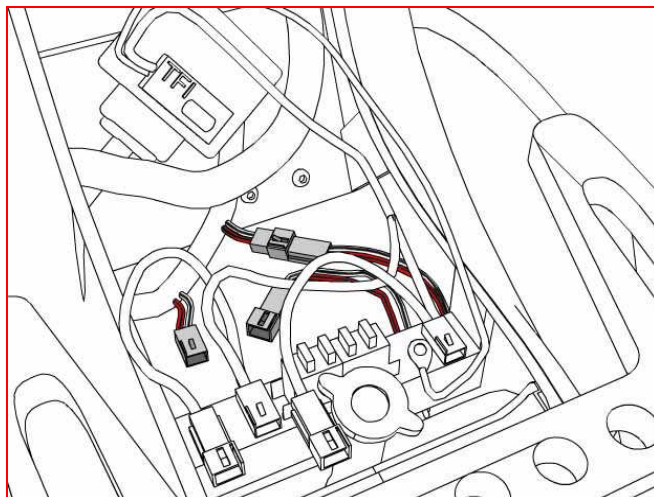
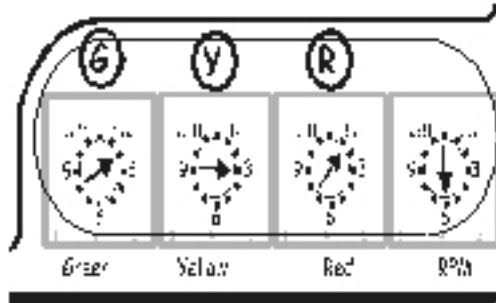


Figure 3



Polaris Sportsman 700EFI



Polaris Sportsman 700EFI

Aftermarket Exhaust
High Flow Air Cleaner

