

Electronic Jet Kit™ Instructions



Thank you for choosing the Techclusion Electronic Jet Kit for the following models:

2005-2011 Suzuki King Quad 400 / 450 / 500 / 700 / 750

2006-2011 Arctic Cat 450 / 550 / 700 EFI

2010-2011 Polaris Sportsman 550 XP

2008-2011 Can-Am DS 450

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 high horsepower tuning.

TOOLS REQUIRED

- **This is about a 15-minute install time.**
- **You will need a small screwdriver.**

Some vehicles modifications with Techclusion 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.



Suzuki King Quad Installation Instructions

1. Remove left hand side panels and seat from riding position. (See figure 1)
2. Determine a location to mount the TFI box using the supplied Velcro.
3. The black wire from our box is the ground. Connect the black wire to the negative side of the battery. You may cut a section of the ring out, allowing you to slip the terminal under the bolt.
4. Locate the grey injector connector on the ATV (figure 2). Unplug the OEM injector connector and plug the TFI into the factory wiring harness and injector.
5. 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 (see last page for settings). 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 fast idle or about 1800-RPM if you have a Tach (with the throttle). Once there, slowly turn the green pot clockwise from the 1:00 position (or off) until you hear the exhaust note change or smooth out (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 for your main jet. It adds about 3 jet sizes per clock position. For example: One clock position is the same as 170 to a 185 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. Good Luck

The RPM switch controls when the red light comes on. The more you turn it from the one 'o clock position the higher the RPM is. A good place to start is the 7:00 position.

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 and or exhaust.
3. High lift cams affecting map at light loads and low RPMS.

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.



Figure 1

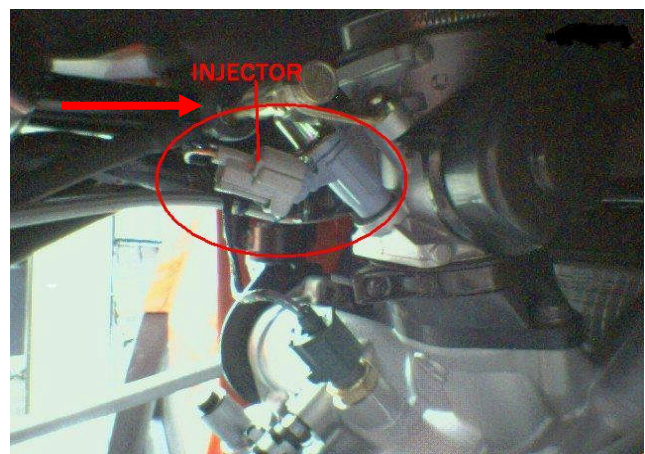


Figure 2

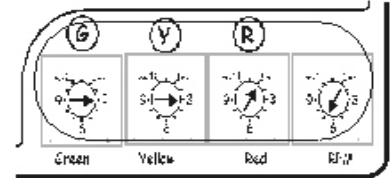


RECOMMENDED POT SETTINGS:

ALL STOCK

GRN: 3:00
YEL: 3:00
RED: 1:00
RPM: 7:00

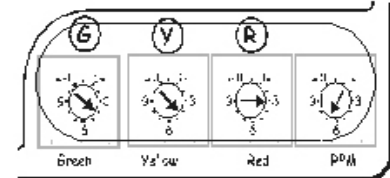
Base Settings Stock



STAGE 1 (Air Cleaner and Exhaust)

GRN: 4:00
YEL: 4:00
RED: 3:00
RPM: 7:00

With Aftermarket
Air Cleaner and Pipe



NOTE: ALL SETTINGS ARE GIVEN AS ACTUAL WALL CLOCK SETTINGS. PLEASE IGNORE THE NUMBERS ON THE POTS!!



2-year Unlimited Mileage Warranty

Techulsion 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, Techulsion 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