

Electronic Jet Kit™ Instructions



Thank you for choosing the Dobeck Performance Electronic Jet Kit for your Arctic Cat F/M1000 Snowmobile. Dobeck Performance recommends having a qualified technician perform the install.

This technology interfaces with your fuel injected snowmobile 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).

This application install is a little more technically involved than some of our previous units, so if you need further assistance with an install call technical support at 1- 877-764-3337/ see our web site at dobeckperformance.com.

This product is capable of handling the fuel needs of pipes, air intakes, and a variety of porting and Big Bore Kits. Like jet kits in the past the more you modify the more responsibility you take in getting your fuel curve right.

TOOLS REQUIRED

- **This is about a 25-minute install time.**
- **You will need a large straight screw driver or a 10mm socket.**
- **Pick or Tweezer .**
- **And a small screwdriver.**





Installation

1. Locate the fuel injectors(Fig 1). Start with the Mag cylinder. Unplug them one cylinder at a time.
2. You will need to disassemble the OEM injector connector, by removing the pins from the connector housing. First pry up the white center piece (Fig 2) with a small screwdriver or pick. Then release the pin catch, also with a small screwdriver(Fig 3) by lifting up on the catch. Once the catch is up pull on the corresponding wire and remove it from the housing. (Fig 4) Repeat on the 2nd wire.
3. Now with both wires removed from the housing slip one piece of shrink tubing over the red Tfi wire (Fig 5) then locate the yellow/red wire that you removed in step 2 and connect it to the red Tfi wire. Do not apply any heat to the shrink tubing at this time! Next slip a piece of shrink tubing over the yellow wire from the Tfi and connect to the yellow/black wire.
4. Now perform step 2 on the PTO cylinder.
5. With the PTO injector connector pins removed, slip the remaining pieces of shrink tubing on the Tfi's red and grey wire. Now connect the Green/Red to the Tfi's Red wire and the Green/Black to the Tfi's Grey wire. Slide the shrink tubing over the connections so that they don't make contact during the first start test.
6. What you should end up with on the Mag connection is: Tfi Red → Yellow/Red , Tfi Yellow → Yellow/Black. On the PTO connection: Tfi Red → Green/Red, Tfi Grey → Green/Black.
7. Attach the Tfi's ground wire to the motor.
8. Make sure none of your connection are making contact with anything. With the rubber plug removed from the Tfi and the Tfi in hand or situated so you can see the Tfi lights with your screwdriver set the fourth pot to 7:30. Start the sled and verify that you have a solid green light at idle. If you do all the connection are correct and you can now lightly apply heat to the shrink tubing. The shrink tubing will help secure and weather prof your new connections. (Fig 6)
9. Stock setting Green 1:00 Yellow 1:30 Red 1:30 RPM 7:30



Tuning

We suggest that you set your pots to the setting that best matches your snowmobiles modification. Further adjustments can be made by first having your snowmobile fully warmed up. Then with a screwdriver in hand, locate the green light and the pot right below it. 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).

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 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 snowmobile stumbles or you feel the performance falling then back off two clock positions. This yellow pot adds most of its fuel below full throttle acceleration.

The red light pot is your main jet. It adds about 5 points of a main jet for every clock position. For 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 snowmobile modifications. The RPM pot controls when the red light starts to add (chosen RPM). I.e. 1:00 red on lower Rpm, 9:00 red on higher Rpm.

Troubleshooting: TECH SUPPORT 1-877-764-3337

Problems:

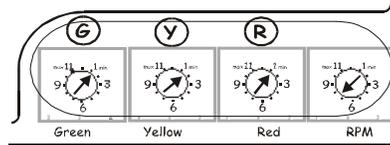
First it is important that you understand that all modern day fuel injected snowmobiles have a big advantage over carbureted snowmobiles. Fuel injected snowmobiles all have the same exact fuel curve and is corrected everyday by the on board weather station. Which means your snowmobile fuel map is either 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.
3. Poor ground location.
4. Flashing Red LED Tfi not seeing injector signal on one cylinder. Recheck all connections.
5. Flashing Green LED Tfi not see any injector signal, but has power. Recheck connections.



If you still have issues call tech support at 1-877-764-3337

Arctic Cat M1000
2007 Stock Only



Green 1:00
Yellow 1:30
Red 1:00
RPM 7:30

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.

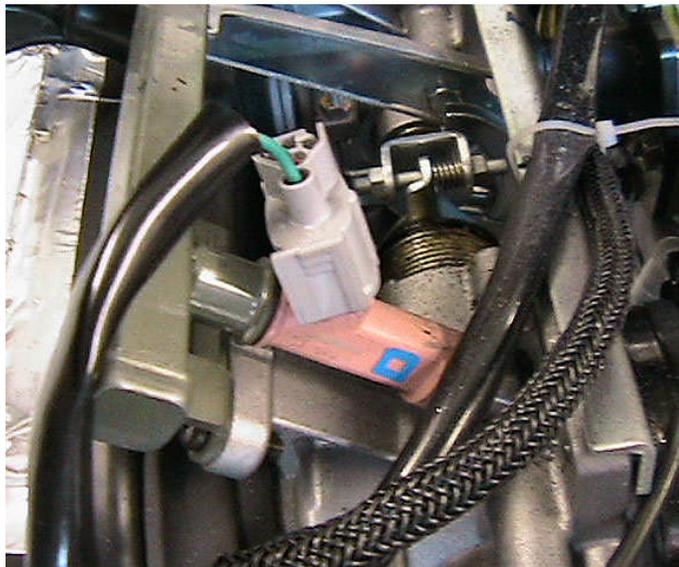


Fig. 1

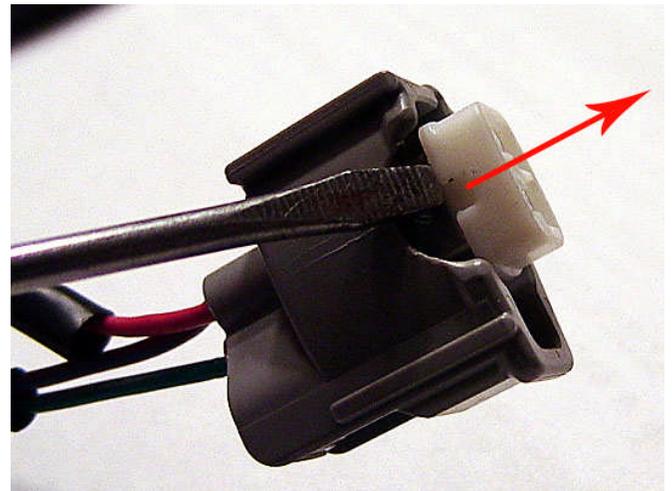


Fig. 2

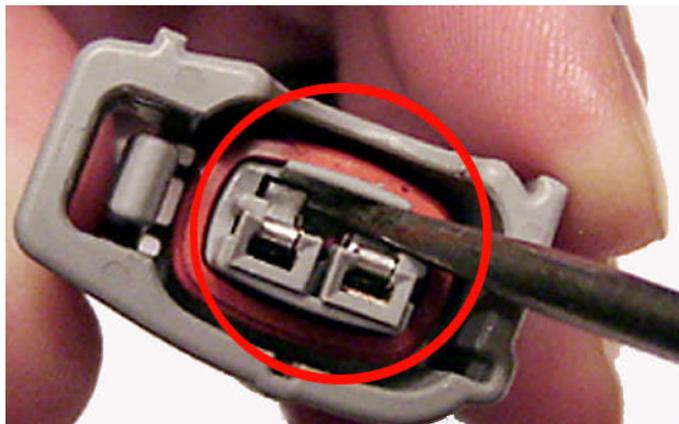


Fig. 3

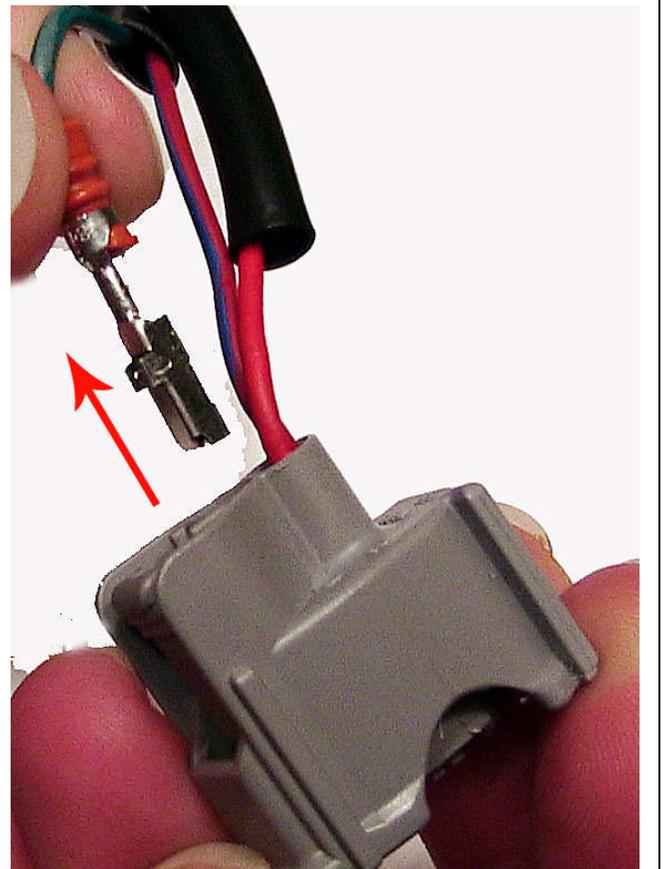


Fig. 4



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**