Ski-doo 600/800 E-TEC Fuel Programmer Installation (141-100)
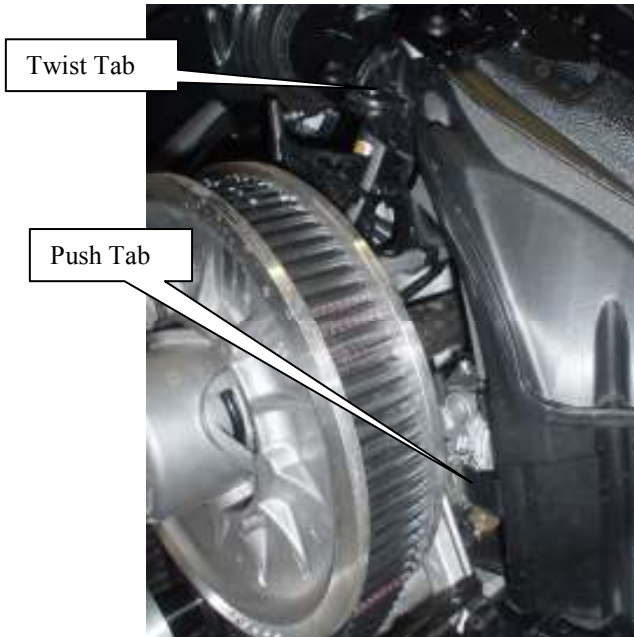
Installation Instructions

1. Remove the air box from the snowmobile. This can be done by pressing the tab on the side and unclipping the top intake by lifting the tab in a circular motion. Then sliding it out. (Picture #1)
2. Unbolt the clamps that hold the plate and boots to the throttle bodies, and remove. (Picture #2)
3. Remove both boots from the intake plate and re-install the new Straightline custom boots for the injectors. When installing the boots there are cut out to orientate the boots correctly and clear the intake plate stand-offs. (Picture #3 & 4)
4. Snap the fuel rail into the boots in the correct orientation as shown in picture (Picture#6). Be sure to push the injectors all the way in. There is a specific ring that the injector will click into. (Picture #6)
5. Re-install the plate with the new boots and re-tighten. (Picture #2)
6. Unplug the main fuel input going into the ECM. Push the clips together and pull. THIS IS A HIGH PRESSURE FUEL LINE AND FUEL WILL COME OUT, BE CARFEUL. (Picture #7)
7. Install the Straightline fuel line in-between the ECM and the fuel line. These are a simple plug and clip item. Routing the fuel line is important. On 2010-11 route over the fuel filter (Picture #8), on 2013 install in the clip shown in picture #9.
8. After clipping the fuel line in, be sure to zip tie the extra fuel line out of the way. Do not kink the line in the process. See picture #10 for routing.
9. Route fuel line down to fuel rail and clamp on using the supplied hose clamp.
10. Clip injector clips onto injectors.
11. Unplug the coil and plug the coil clip into the harness and re plug the other side back into the coil wire.
12. Locate the accessory plug on the passenger side of the machine. This will have the on and off power for the programmer. Locate the red wire with orange stripe. Connect this to the red wire from the programmer. Connect the black wire to the black wire on the plug. Connect both wires using the locks provided.
13. The programmer can be mounted outside or inside the machine. Tuning of the machine is easier if the programmer can be seen during riding. Straightline recommends mounting the programmer on the dash during set-up. After performance is perfect, programmer can be mounted under hood of machine.
14. Be sure to route all electrical wiring so that there is not cutting or obstruction during riding.
15. Re-install the air box.
16. Install a jack stand under the rear bumper and start the machine.
17. Be sure that the programmer powers up, and rev up machine. The lights should change color with throttle position.
18. At the same time check for fuel leaks at all connections.
19. After this complete installation read the Fuel Programmer Operation for complete instructions and operation.

Twist Tab

Push Tab

Picture #1

Clamps to unbolt from throttle bodies.

Picture #2

Cut Out Area

Picture #3

Stand-Off and New Boot Installed

Picture #4

Part of injector that clips into boot.

Picture #5

Picture #6

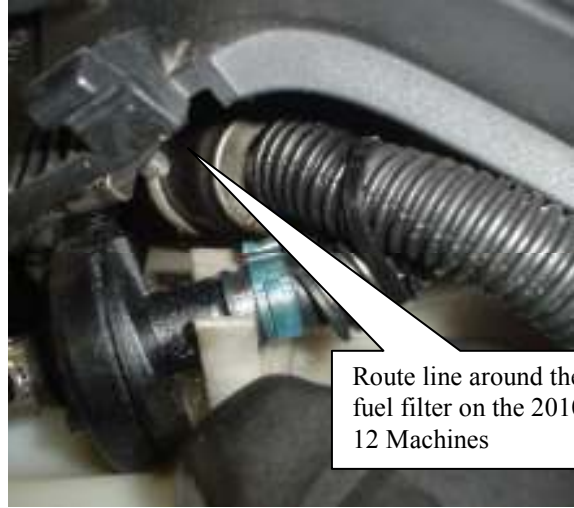Install fuel rail with injectors facing the throttle bodies
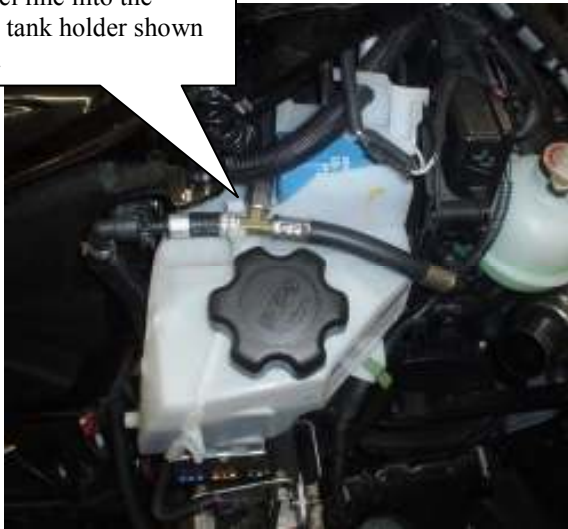
Unclip the fuel line from ECM

Picture #7

Route line around the fuel filter on the 2010-12 Machines

Picture #8

On the 2013 machines clip fuel line into the plastic tank holder shown below.

Picture #9

Routing of fuel line wrapped up and zip tied.

Picture #10

Accessory Plug

Picture #11

Red with
Orange Stripe

Picture #12

Programmer Mounted on Dash

Programmer Mounted under Hood on Battery

Warranty

Be sure all fuel programmer parts are free of manufacture defects. If the parts have been used there are **no warranties**. There is no warrantee for any electrical item if it has been installed. Be aware of improper installation, SPI does not warrantee any installation procedures.

BOM:

Quantity	Part #	Descriptions	In Box
2	IT-141-100-Boots	Intake Boots	
2	107962	Injectors	
1	8410003	Fuel Programmer	
1	IT-141-100-Rail	Fuel Rail	
2	3131717	Injector Clip	
1	IT-141-100-Fuel Hose	Complete Fuel Hose Assembly	
1	NP-181	Fuel Rail Plug	
1	68707	Fuel Rail Plug 45 Degrees	
1		Catalog	
1		Sticker	
1		Fuel Programmer Instructions	
1		Installation Directions	

Checked and Packaged By

Technical questions please email tech@straightlineperformance.com

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