Polaris Axys Silber Turbo Installation

We want to thank you for your recent purchase of the Polaris Axys Silber Turbo Kit. We suggest professional installation for this turbo kit.

Disassembly:

Remove Side Panels, Hood, Stock Silencer, Airbox, Clutches, and Throttle Body coolant lines. (Refer to pictures)



Remove Upper Airbox Plenum



Silencer Removed



Remove Rubber Grommets from OEM Silencer



Drain Coolant



Remove Intake and ECU



Belt Primary and Secondary Clutch Removed



Remove Coils From Top of Airbox



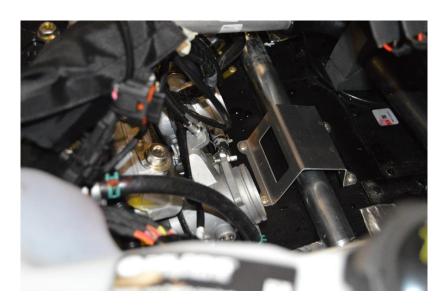
Intake Removed From Airbox, Map Sensor Unplugged



Airbox Removed from Sled



Coolant Line from Cylinder Head to Throttle Body Remove

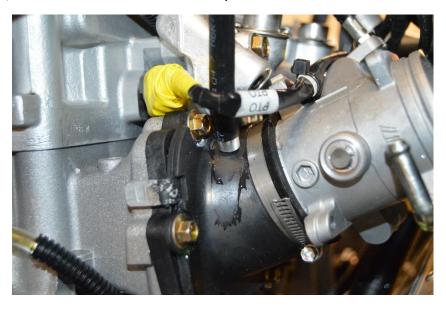


Coolant Line Removed



Installation:

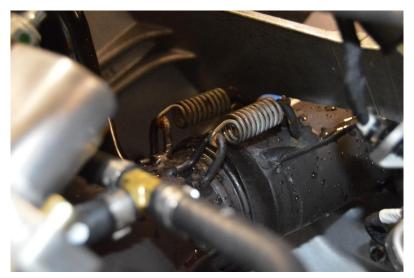
Drill 3/16 hole in PTO Side Throttle Body Boot and Install BOV Hose and Fitting



Coil Mount Bracket



Double Spring Each Spring Tab on Y Pipe to Tune Pipe Connection Using the take off 2" exhaust springs from the oem silencer.

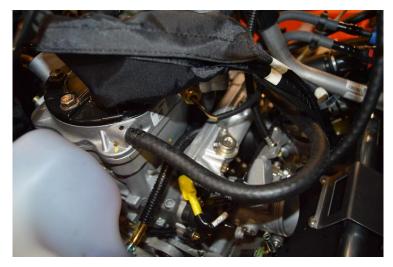




Install the turbo coolant lines. The 90 degree line goes to the coolant bottle, and the straight line goes directly to the cylinder head. You will not run coolant through the throttle bodies with the turbo kit. The lines come installed on the turbocharger and must be re installed the same way. 90 line towards the side panel and straight line towards the engine.







Bolt Coils onto the Bracket using the supplied bolts and nuts. Also install the coil extension wires.



Remove the two oil lines from the pump, You will remove the two lines in pictures. Caution you must install these lines correct to ensure proper engine lubrication.



Push the first line you remove into tee. You will not have to use any clamps on the lines that connect to the TEE (it's a push lock connection and no clamps are required.



Now remove Top line as you see in picture, and connect it to the TEE



Locate a syringe, then fill it with Polaris 2 stroke oil and fill the 2 lines with oil so the air bubbles are gone.

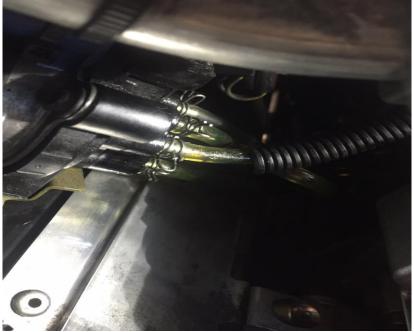


Hook the line with TEE up to top port on oil pump



Locate the Turbo Oil Line. Using a syringe fill the line with Polaris VES oil. Connect one end of the Turbo Oil line to port direcly below the line with TEE of the electronic oil pump. Use the stock oil line clamp on the pump side.

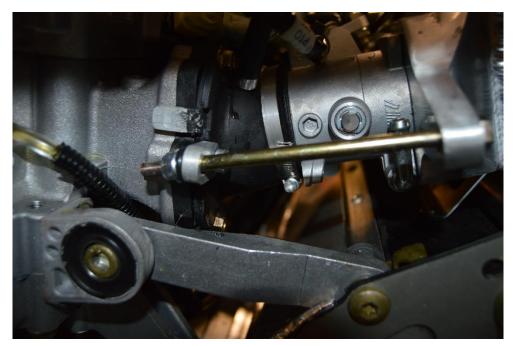




Non Intercooler Kits Install the billet throttle body adapters to the throttle bodies. Fasten with the suppled socket head bolts. Install the silicone Airbox once the billet adapters are installed.



Intercooler Kits. Install the two supplied Two Hole Aluminum Tabs into the throttle body Boot. Remove the factory 8mm bolts, and install the tab using the supplied socket head bolt. You will install one tab on each side of the boot. Located the Intercooler airbox and install it onto the throttle bodies. Fasten to the engine using the Supplied Bolts, Nuts, and O rings. Use picture for installation. Tighten the nut so it start to smash the o ring. Do not over tighten.



Remove the 4 T20 Tork Bolts from the hood plenum, to remove to stock vents. You need to remove the foam behind the vents.





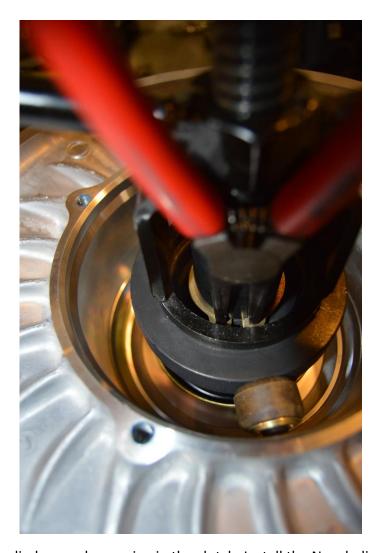
Clutching

We suggest hitting each head of the bolts on the secondary clutch helix. This will help loosen them and they will remove with less effort.



Remove Secondary Helix and Spring





Install the new supplied secondary spring in the clutch. Install the New helix on the 42/46 side.



Remove the spring and weights from Primary clutch.

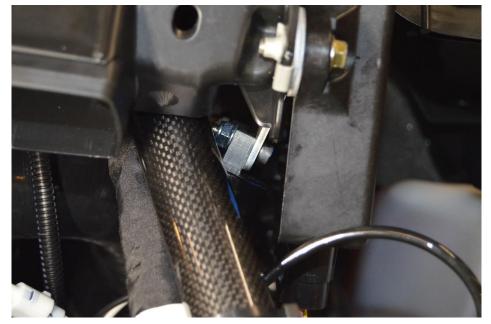
Install the new Pink Primary spring and Polaris weights. We suggest 10-76 weights for mountain riding, and 82 grams for low elevation.

Install the charge tube onto the new airbox or intercooler. Connect the new map sensor to the oem map sensor plug.

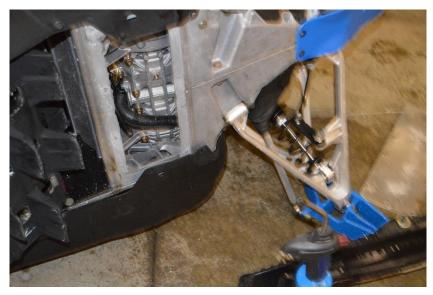


Install the hood plenum. And install the coil bracket behind the ecu.





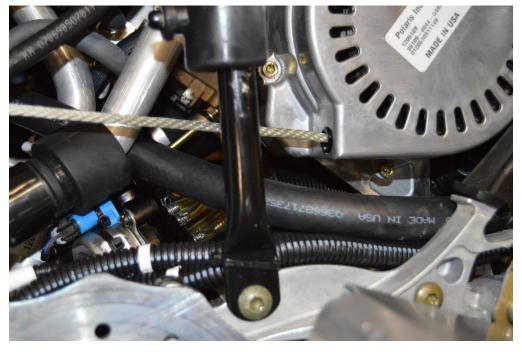
Intercooler Kits, Remove the bulk head aluminum Belly Pan. Drill out the rivets and remove the plate. The plate is glued on, if you apply heat it will remove with little effort.





Install the new Intercooler Heat Exchanger. Be sure to route the installed coolant lines so they don't bend or kink off. The long hose will connect to the fitting on the PTO side airbox. The short line will get installed onto the supplied water pump.



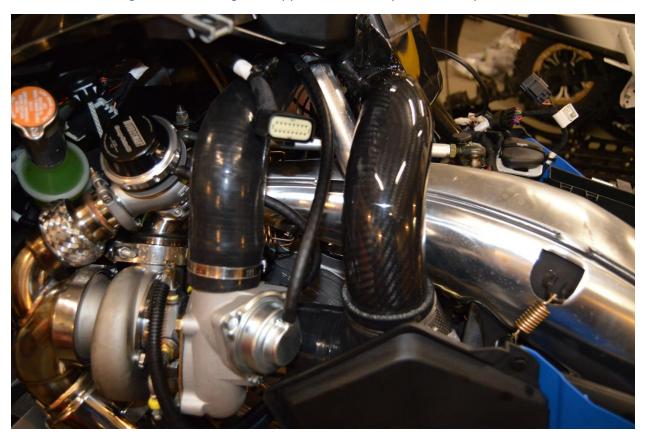


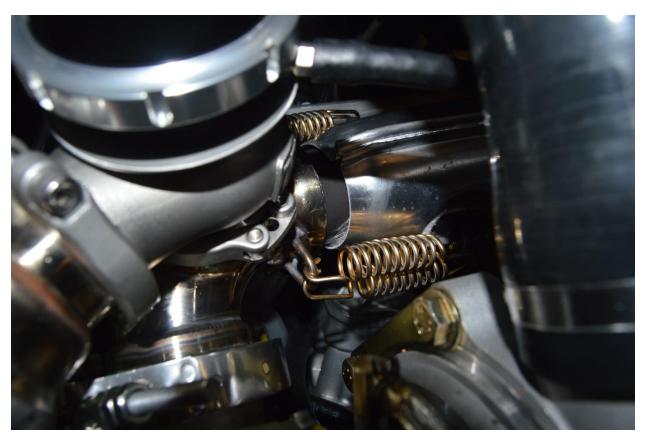
Install the new water pump. Locate the pump like the picture. Connect bottom port to coolant line coming from the new heat exchanger. Connect the Side port to the Coolant line TEE line coming from the Intercooler Air box. Plug the Electrical connection into the DC power plug located above the voltage regulator in front of the OEM oil tank. Fill the system using Engine coolant. Besure to check it after starting the sled to make sure its full.



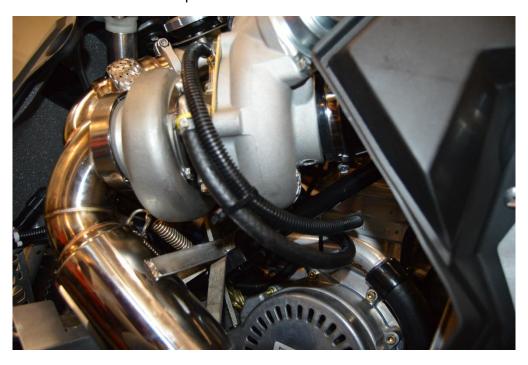
Install the Turbocharger assembly onto the snowmobile. Install the stock rubber grommets onto the turbo assembly and lower bulk hed. Use the 4 long springs to connect the turbo to pipe. Using the Long Muffler hanger spring, connect the turbo to the hanger bar to the tab welded on the down pipe.

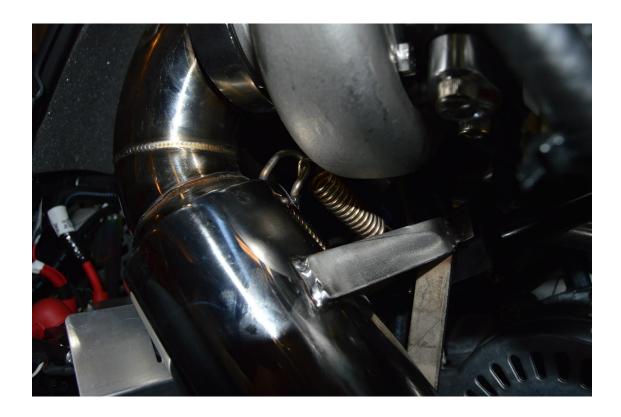
Install the Carbon Fiber Cold Air Intake and Silicone Adapter to the hood plenum and turbo charger. Fasten using the supplied hose clamps and OEM push darts.



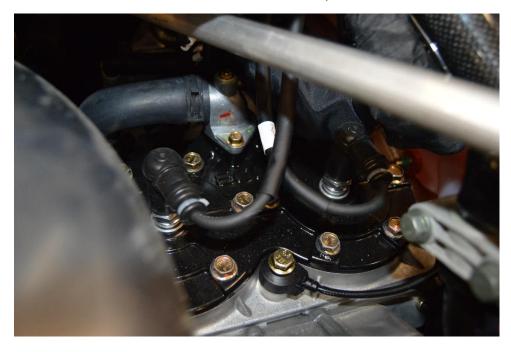


Connect the turbo coolant lines to the turbocharger. Also connect the oil line to the top of the turbocharger. We suggest using the Syringe and Oil to prelube the turbo charger with 5 ML of oil. Use Zipties to secure all hoses and lines.





Fill the coolant bottle with coolant. Loosen the bleeder screw on top of the thermostat housing to bleed the air out of the system.



• Installation Tips and Proper Setup

- Double Spring Each Spring Tab
- Install helix on the 42/46 side
- Use 76 grams weights for Mountain Riding, Use around 82 grams for low elevation
- Be sure the throttle cable is routed proper and is not being pulled, this will cause the machine to cut out.
- Trim silicone on turbo side or airbox side for desired fit.
- Pre lube Turbo Charger with 5 ML of Polaris VES oil
- Remove Cap from External Wastegate and verify there is 1 spring installed. Turbo smart Wastegate Actuator
- Remove Foams and plastic holders from Stock Hood Plenum Airbox
- Use Caution Installing clutch springs so you don't damage the cover bushing.
- Intercooler kits (fill system with engine coolant or RV antifreeze) Plug pump into DC power plug