



# POWERLID INSTALLATION INSTRUCTIONS

Part Number HA-4504-T

**This filter fits:** SEE CATALOG FOR CURRENT APPLICATIONS

Congratulations, you have purchased an X-STREAM™ POWERLID™, the latest filtration innovation from K&N, the recognized leaders in the performance filtration industry. The X-STREAM™ POWERLID™ is a pre-filter that is designed to increase the air-flow to the engine by eliminating the restrictive intake snorkels while at the same time, extending the service interval of the primary air filter. The X-STREAM™ POWERLID™ **MUST BE USED IN CONJUNCTION WITH A PRIMARY AIR FILTER AT ALL TIMES.** The X-STREAM™ POWERLID™ comes complete with the necessary carburetor components required to properly jet a stock machine. If the machine has any modifications such as a pipe or porting, the supplied jets may not be correct for this application, see Main Jet/Tuning Recommendations. Due to the limited size of the X-STREAM™ POWERLID™, it will require servicing more often than the primary filter typically does. For extremely rigorous conditions, the X-STREAM™ POWERLID™ is supplied with its own DRYCHARGER™ to extend the service interval for those extra long weekends in the desert. By cleaning, replacing or removing the DRYCHARGER™ and/or the X-STREAM™ POWERLID™, it should no longer be necessary to service the primary air filter in the field where the risk of engine contamination is at its highest. Please follow the separate DRYCHARGER™ instructions for installation onto the X-STREAM™ POWERLID™.



1. Lift up on the seat release.



2. Remove the seat.



3. Remove the top two bolts holding the plastic to the tank (one on each side).



4. Remove the lower two bolts that hold the plastic to the frame of the ATV (one on each side).



5. Remove the bolt that fastens the tank to the frame (one on each side).

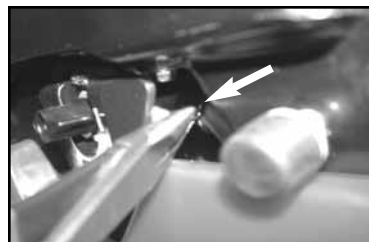


6. Remove the rubber strap holding the fuel tank (one on each side).



7. Unclip the plastic that meets at the rear of the fuel tank.

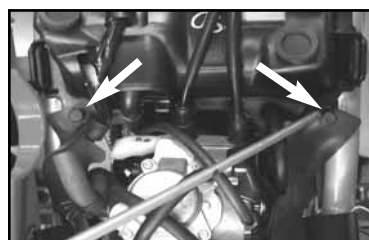
8. Turn the fuel petcock to the OFF position.



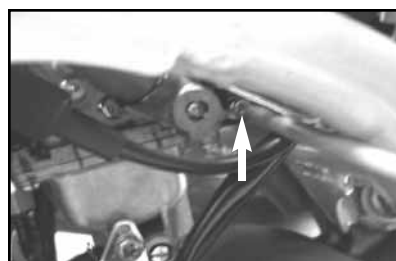
9. Slide clip back on the fuel tube and remove the tube from the fuel tank. **NOTE:** Be careful to catch any gas in a metal container for proper disposal.



10. Remove the fuel tank.



11. Remove the two push pins that hold the rubber dust flap. Fold the dust flap back towards the air box.



12. Loosen the intake tube clamp that goes to the carburetor.



13. Loosen the clamp at the front of the carburetor.

14. Gently push the carburetor towards the right side of the ATV. This allows easy access to the jet holder hex nut.



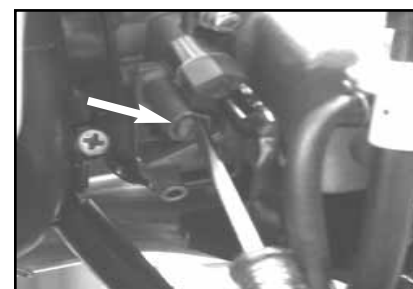
15. Remove the jet holder hex nut.



16. Remove the main jet.

**NOTE:** For jetting recommendations please see the Main Jet/Tuning Recommendation section.

17. Install the proper jet per the Main Jet/Tuning Recommendation section. Reinstall the jet holder hex nut.

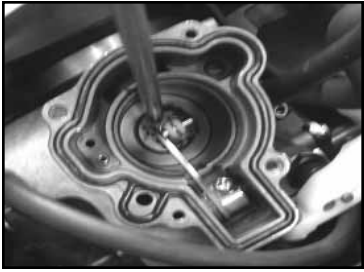


18. Locate fuel mixture screw and turn the screw clockwise until lightly seated. Now turn screw counterclockwise 2 1/2 full turns.

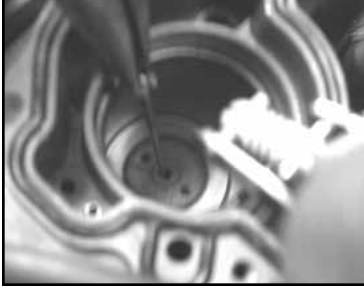
19. Put the carburetor back into the proper position and tighten the clamps from steps 12 and 13.



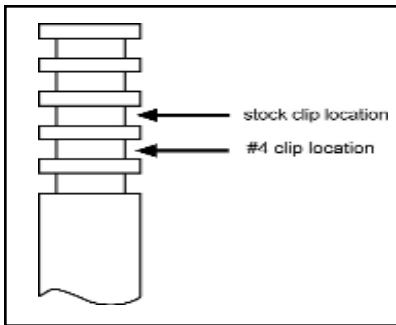
20. Remove the four screws and remove the carburetor top.



21. Remove the two screws for the needle cap. Lift up the needle cap.



22. Remove the needle.



23. Move the clip to the #4 clip location and reinstall the needle.

24. Reinstall the needle cap and the carburetor cap from steps 20 and 21.

25. Reassemble the ATV, following the steps in reversed order. Do not reinstall the seat at this time.

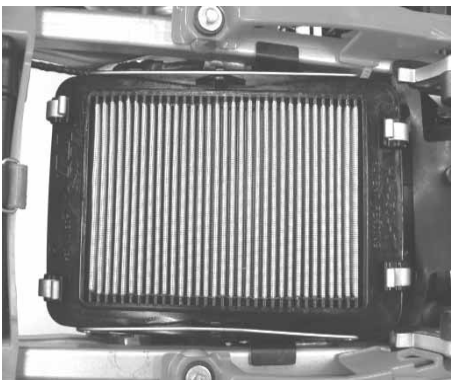
**You are now ready to install the X-STREAM™ POWERLID™.**

26. Remove the four air box retaining clips and the two side spring clips and remove the air box lid.



27. Remove the o-ring from the groove on the stock air box lid. Reinstall the o-ring in the X-STREAM™ POWERLID™ groove.

**NOTE:** If you are replacing the stock air filter with the K&N Filtercharger® part number HA-4504, follow the installation steps outlined on the instruction sheet.



28. Install the X-STREAM™ POWERLID™ onto the air box using the stock retaining clips.

**NOTE:** The X-STREAM™ POWERLID™ will only fit in one direction.

29. Reinstall the seat.

#### ROAD TEST

Before starting engine make sure all fuel lines are reconnected and tight. Turn the fuel petcock to the ON position. Put the ATV in neutral and start. With the engine running listen for any air leaks, noises or fuel leaks. If there are any leaks or noises, check the cause and repair before proceeding. You may notice more noise from the air box, compared to the stock lid. If all preliminary checks are okay, a quick road test is necessary. Listen carefully for any noises and fix as necessary. If road test is fine, you can enjoy riding as normal. If you have any questions or problems, inquire at you nearest K&N dealer, or direct to K&N Engineering at (951) 826-4000.

**WARNING: The ATV should never be run without the stock primary air filter or a K&N Filtercharger® part number HA-4504**

**THESE INSTRUCTIONS MUST BE FOLLOWED EVERY TIME THE FILTER IS SERVICED, OTHERWISE THE FILTER MAY NOT SEAL, AND DAMAGE TO THE ENGINE COULD RESULT.**

#### MAIN JET / TUNING RECOMMENDATION

There are many factors that can affect the air/fuel mixture of an ATV. A few of these are; altitude, air temperature, fuel type, engine modifications, etc. The X-STREAM™ POWERLID™ is not designed to cure a poorly jetted machine.

The supplied jets were tested on a completely stock machine fitted with an X-STREAM™ POWERLID™ with the following parameters:

Elevation - 1000 feet  
Temperature - 95°F  
Fuel type - 91 unleaded

The larger jet will work up to about 3000 feet elevation. The smaller jet should be used for elevations from 3000 feet to 6000 feet. For elevations above 6000 feet smaller jets will need to be purchased locally. If the machine is not completely stock (including the jetting) the supplied jets will not be correct for this application. If the machine is not stock but it has been re-jetted correctly, the X-STREAM™ POWERLID™ can be made to function properly with locally purchased jets.

Follow these guidelines for help in determining what jetting adjustments to make when the machine is not stock.

Installing an X-STREAM™ POWERLID™ in place of an unmodified stock air box cover typically requires increasing the main jet 21 steps and raising the needle one position.

Installing an X-STREAM™ POWERLID™ in place of no air box cover typically requires decreasing the main jet 1 step and lowering the needle one position.

Installing an X-STREAM™ POWERLID™ on an ATV with race exhaust, you may need to increase the main jet 4 steps.

#### PARTS LIST:

Description	Qty.
POWERLID™	1
Main Jet #165	1
Main Jet #170	1
Drycharger Wrap	1

**US PATENT Number: 7,282,076**