



POWERLID INSTALLATION INSTRUCTIONS

Part Number HA-4099-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 did. 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. Remove the seat.



2. Unclip the air box retaining clips and remove the lid. **NOTE:** If you are replacing the stock air filter with the K&N Filtercharger® part number HA-4099, follow the installation steps outlined on the instruction sheet.

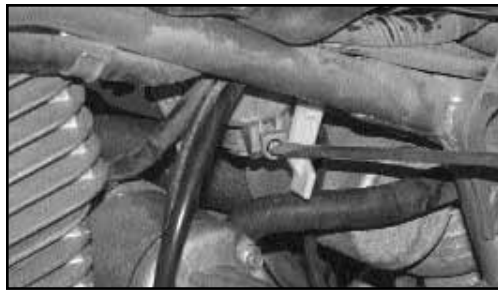


3. Remove all of the clips and fasteners from the front body shell and remove plastic side panels.

4. Turn fuel petcock to the **OFF** position. Now remove the fuel line from the fuel tank. **NOTE:** Be careful to catch any gas in a metal container for proper disposal.



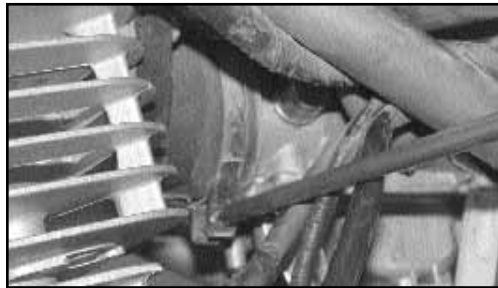
5. Remove all of the fasteners and straps from the fuel tank. Remove the fuel tank.



6. Locate float bowl drain screw per ATV owners manual and drain the fuel from the carburetor. **NOTE:** Be careful to catch any gas in a metal container for proper disposal.



7. Loosen the hose clamp from the intake tube to the carburetor.



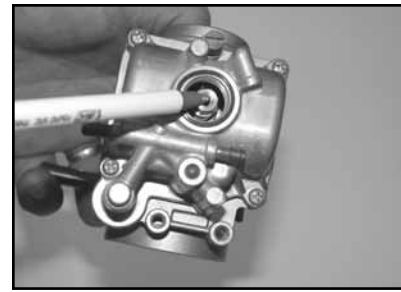
8. Loosen the hose clamp from the carburetor to the engine.



9. Remove the carburetor. Position the carburetor on top of the ATV for access to the float bowl and vacuum slide assembly.



10. Remove the jet holder hex nut.



11. Remove the main jet.

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

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

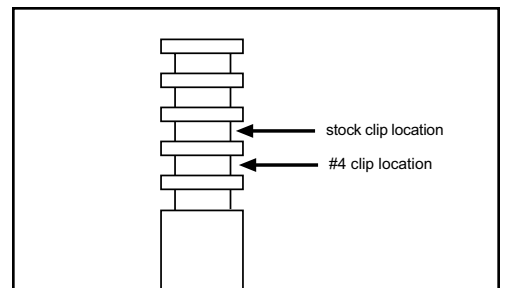
NOTE: On 2005-2006 models skip steps 13-15, the needle is non-adjustable.



13. Remove the three screws from the needle slide cover located on the top of the carburetor. Remove the needle slide cover.



14. Locate and remove the two screws that attach the needle slide arm to the slide. Swing needle slide arm away from the slide and remove the needle from the carburetor.

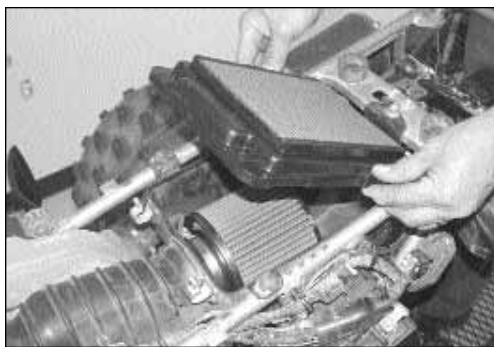


15. On a completely stock ATV, change the clip from the stock location to the #4 groove. For all other ATV's see Main Jet / Tuning Recommendation section.



16. Locate the fuel mixture screw and turn the screw clockwise until lightly seated. Turn screw counterclockwise 2 full turns.

NOTE: If the machine has a stumble as the throttle is opened, the fuel mixture screw should be adjusted in or out 1/8 turn at a time for best off-idle performance.



17. Install the X-STREAM™ POWERLID™ on to the air box using the stock retaining clips.

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

18. Re-assemble the ATV following the steps in reverse order.

* Pictures in this instruction sheet are for reference only. Your ATV may look different.

ROAD TESTING

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 then 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 the road test is fine you can enjoy riding as normal. If you have any question or problems, inquire at your nearest K&N dealer, or direct to K&N Engineering at (951) 826-4000 or (800) 858-3333.

WARNING: ATV should never be run without stock primary air filter or K&N Filtercharger® part number HA-4099.

**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

Note: 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 airbox cover typically requires increasing the main jet 9 steps and raising the needle one position.

Installing an X-STREAM™ POWERLID™ in place of no airbox cover typically requires decreasing the main jet 6 steps and lowering the needle one position.

Parts List - HA-4099-T

Description	Qty.
POWERLID™	1
Main Jet #168	1
Main Jet #170	1
Drycharger	1

PATENT #7,282,076