



INSTALLATION INSTRUCTIONS

S&B Part # 75-5017

Yamaha Rhino 660cc

*****WARNING*****

Re-jetting of the carburetor is necessary to compensate for the increased air flow. Our R&D facility tuned a stock engine using a # 177 main jet, and 2 full turns out on the mixture screw. Your specific engine stock or modified, along with other factors such as operating altitude may require a different setting and jet #. So adjust accordingly, or have a qualified service center determine your carburetor settings. Do not operate your vehicle until the carburetor has been properly re-jetted. Failure to do so may cause severe engine damage.

QTY PARTS LIST

- 1 (A) Upper Intake Tube
- 1 (J) Air Box
- 1 (Z) Clear Lid
- 1 (B) 3" x 2" Round Adapter
- 2 (H) 1/4" Fender Washer
- 4 (E) 5/16-18 Bolt
- 4 (V) 5/16-18 Lock Nut
- 4 (F) 5/16 Washer
- 1 (L) 1/2" hose barb

QTY PARTS LIST (continued)

- 1 (G) 1/4"-20 Lock Nut
- 1 (I) 1/4"-20 SS Socket Head Screw
- 2 (D) #52 Hose Clamp
- 4 (X) 10/24 SS Concave Rubber Washer
- 1 (M) 1/2" x 9" rubber hose
- 1 (W) S&B Air Filter
- 1 (U) # 64 Hose Clamp
- 1 (K) Oil Catch

TOOLS REQUIRED

- 4 mm Hex Head Wrench
- 3 mm Hex Head Wrench
- 5/32 Hex Head Wrench
- Phillips Head Screwdriver
- Flat Head Screwdriver
- 7/16" Wrench
- 1/2" Wrench
- 1/2" Socket
- Ratchet
- 8 mm Wrench

***** TOP SPEED *****

This intake kit will greatly increase the Bottom to Mid range torque of your engine. If you have an *after market* CDI installed and want to improve the Top speed of your Rhino, enlarge the opening of the air inlet on the air box.

*****WATER CROSSING*****

This intake kit will lower the engine air intake inlet approximately 18". It is not recommended for any type of water crossings or deep muddy situations.

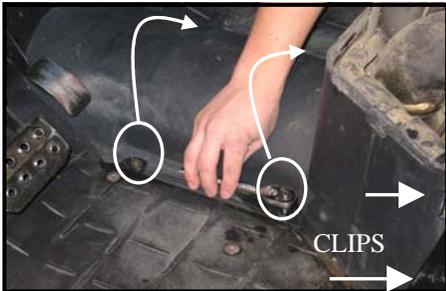
1. With the ignition switched off, remove the parking brake lever, use a Phillips screw driver. Then remove driver and passenger seats, then remove the engine cover.



2. Remove the 7 push locks that secure the kick panel under the drivers seat, use a Phillips head screw driver. Then remove the panel.



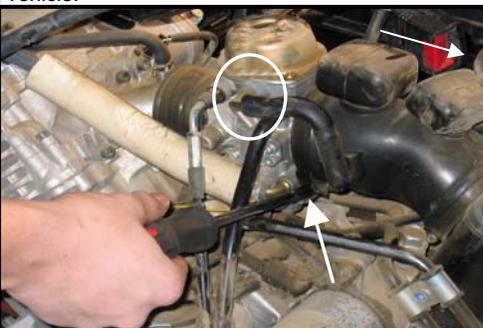
3. Remove the 4 bolts that secure the driveshaft cover use an 8 mm socket. Unhook the 4 clips, 2 on each side. Then remove the cover.



4. Use a flat head screw driver to pry up the 2 push locks that secure the OE air box to the frame.



5. Loosen the hose clamp at the carburetor (# 4 hex) disconnect the crank case vent line at the air box and the carburetor vacuum line at the carburetor. Remove the air box and adapter from the vehicle.



6. Note: Re-jetting of the carburetor is recommended at this step as you will need to carefully drill out the factory plug that is covering the mixture screw so that it can be adjusted. Refer to Yamaha Service Manual.

7. Remove the OE air box adapter from the air box and reinstall onto the carburetor, secure the factory clamp. Use # 3 hex.



8. Slide the S&B 3" adapter (B) half way on the upper intake tube (A), secure with # 52 hose clamp (D). Place the upper half of the S&B tube (A) in the OE adapter and secure the OE clamp (#4 hex).



9. Place the S&B air box (J) in the space under the drivers seat. Assemble the lower half of the S&B tube (C) with the S&B air box (J), using the 5/16 bolts (E) and lock nuts (V). Place a washer (F) under each nut. Use 7/16 socket and wrench.



10. Insert the lower S&B intake tube (C) into the S&B 3" adapter (B) already on the upper intake tube (B). Secure the #52 hose clamp (D).



11. Align the mounting hole in the bottom of the S&B air box (J) with the hole in the floor of the vehicle. Secure with the 1/4-20 hex bolt (I), 2 fender washers (H) and lock nut (G) provided. Insert bolt from outside bottom. Use 5/32 Hex and 7/16 socket.



INSTALLATION INSTRUCTIONS (continued)

12. **Note:** It may be necessary to loosen all hose clamps and reposition tubes for proper fit and to locate mounting hole for the air box. Retighten hose clamps.

13. Install S&B air filter (W) onto S&B flange adapter tube (C) and secure with #64 hose clamp (U).



14. Place S&B clear lid (Z) on top of S&B air box (J) and secure with 10-32 screws (Y) and rubber washers (X).
Note: Do not over tighten.



15. Assemble the S&B Oil Catch (M), use the 5/16 x 1/2" bolt and lock washer to mount the oil catch on top of the frame where the OE air box push locks were inserted. Use the hole on the drivers side. Do not over tighten! See step # 4.



16. Connect the OE crank case hose to the 90 degree 1/2" hose barb on the oil catch assembly.

17. Install the OE Kick Plate.



18. Install the OE Drive Shaft Cover.



19. Install the OE Engine Cover.

20. Install the OE Parking Brake Lever and reposition the shift boot so as to fit tightly against the engine cover.

21. Install the Driver and Passenger seats. The installation is now complete.

PERFORMANCE TESTING

- * Engage parking brake and start your engine. Listen for abnormal noises. If an air leak is detected, re-inspect hoses and connections as they may need to be repositioned and tightened.
- * S&B FILTERS RECOMMENDS THAT YOU KEEP YOUR OEM INTAKE SYSTEM IN THE EVENT IT IS REQUIRED IN THE FUTURE.
- * In order to maintain your warranty, all connections and components must be checked periodically for alignment and for proper tension on all connections. Failure to do so will void your warranty.
- * Use only S&B Filter cleaning and oil products to service your filter. Using any other brand oil and or cleaners may void your warranty.

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