

SNOSCOOT HYDRAULIC BRAKE CONVERSION : FULL KIT

Thank you for your purchase of the conversion kit. The hydraulic caliper, brake line, and hand brake master cylinder can be found on sources like Ebay. The complete setup can be found on the following snowmobiles : Yamaha Nytro, Vector, Rage, and VK Pro. Use the part numbers listed below to ensure the brake system you purchase is compatible with the conversion kit. Your hydraulic brake system should look similar to the one shown in Fig. 1

NOTE :

This conversion kit can be used for both the :

- Yamaha **Nytro** caliper (Yamaha part # 8GL-2580T-00-00)
as well as the
- Yamaha **Apex, Vector, Rage, VK Pro** caliper (Yamaha part # 8FU-2580T-01-00)



Fig. 1

Your kit will include the following : See Fig. 2

- CNC machined 6061-T6 Aluminum Caliper Mount (qty. 1)
- M10 x 1.25 x 25 Socket Head Cap Screws (qty. 2)
- M8 x 1.25 Flange Nuts (qty. 3)
- 3/8-16 x 1-1/2 Socket Head Cap Screws (qty. 2)
- 3/8-16 Flange Nuts (qty.2)
- Headlight Switch Mount
- #8-32 x 3/4 Socket Head Cap Screws (qty. 2)
- #4-40 x 1/2 Button Head Cap Screw (qty. 1)



Fig. 2

INSTALLATION:

Step 1. Install the brake caliper onto the aluminum caliper mount.

NOTE:

-If you have the Yamaha **Nytro** brake caliper, install the caliper onto aluminum caliper mount using the M10 x 1.25 x 25 socket head cap screws. These are the black screws with the white dot painted on them. Ensure they are tight. See Fig. 3 and 4.

Note: Discard the screws and nuts with the yellow dots as they are for a different installation.

-If you have the Yamaha **Apex, Vector, Rage, VK Pro** brake caliper, install the caliper onto the aluminum caliper mount using the 3/8-16 x 1 ½ socket head cap screws and the 3/8-16 flange nuts. These are the black screws and silver nuts with the yellow dots on them. Ensure they are tight. See Fig. 5 and 6

Note: Discard the screws with the white dot as they are for a different installation.



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Step 2. Install the caliper assembly onto the caliper mounting studs. See Fig. 7

Install the brake rotor so that the flange mounts toward the engine Side as shown in Fig. 7.

Slide the caliper assembly over the brake rotor and install the assembly onto the drive shaft. Push the assembly onto the three mounting studs. This can be tricky with the exhaust installed but it will fit.

Install and tighten the three M8 x 1.25 x 25 nuts onto the studs. These are the nuts with the red dot painted on them. Ensure they Are tight.



Fig. 7

Step 3. Run the brake lever assembly and brake line thru the frame work of the machine and attach the brake lever housing to the handlebar. Ensure the brake line is secured to the framework at multiple locations.

Squeeze the brake lever multiple times to ensure the brake pads are in contact with brake rotor and functioning correctly.

Use the adjustment screw on brake lever to set the distance from the handlebar grip to suit smaller hands. See Fig. 8



Fig. 8

- Step 4.** Install the factory Headlight Switch onto the Headlight Switch Mount provided in the kit. Use the #4-40 Button Head Screw to fasten the switch to the mount. Note : It will take some effort to tighten the screw as it forms the threads in the plastic switch body. See Fig. 9.



Fig. 9

Step 5. Install the Switch Mount Assembly onto the handlebars in a position of your choice. Use the #8-32 Socket Head Cap Screws to secure the Headlight Switch Mount to the handlebars. See Fig. 10 for suggestion.

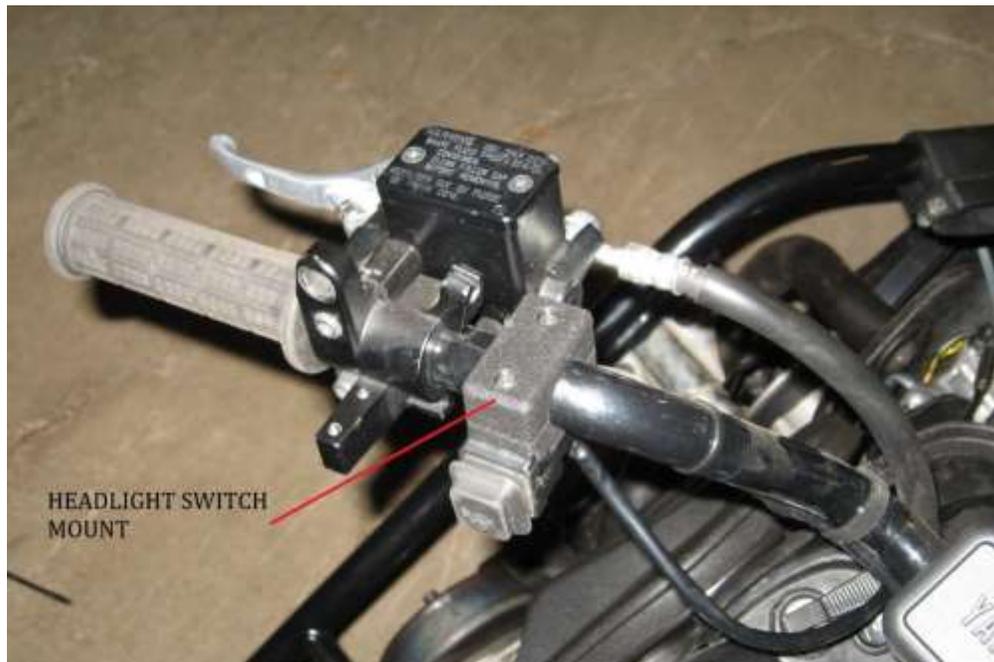


Fig. 10

Step 6. Modify the brake light switch on the hydraulic brake system to work with the stock SnoScoot / SnoSport wiring harness. This involves swapping the brake light switch wiring harness and connector from the SnoScoot / SnoSport onto the hydraulic brake system brake light switch.

Remove the SnoScoot / SnoSport brake lever, mount and wiring harness. See Fig. 11



FIG. 11

Pull back the rubber protective cover on the brake light switch on the SnoScoot / SnoSport brake lever housing. See Fig. 12

Remove the (2) small screws that secure the wiring harness to the switch housing. See Fig. 12

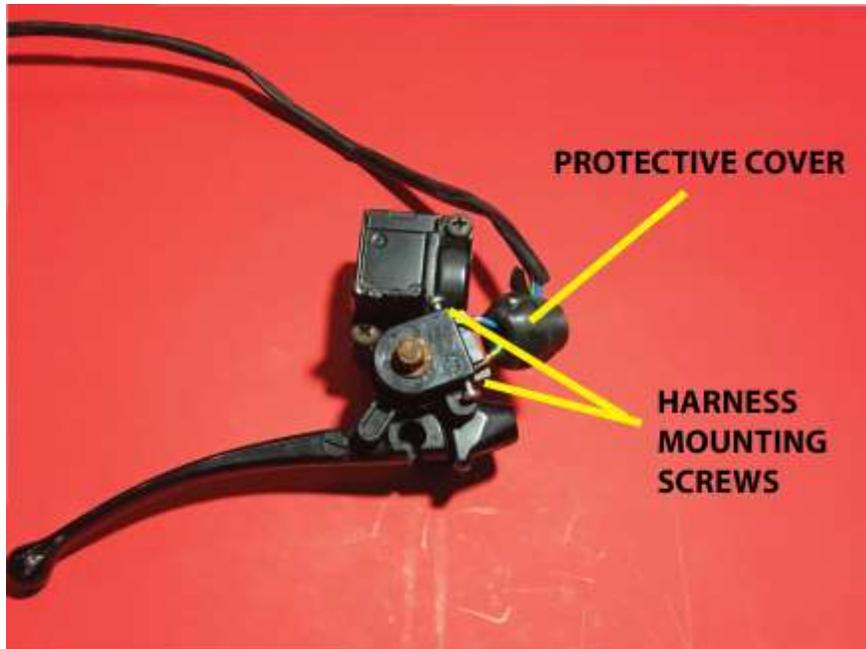


FIG. 12

Once both screws are removed, gently pull the harness out of the switch body exposing the switch contacts and black spacer. See Fig. 13 & 14



FIG. 13

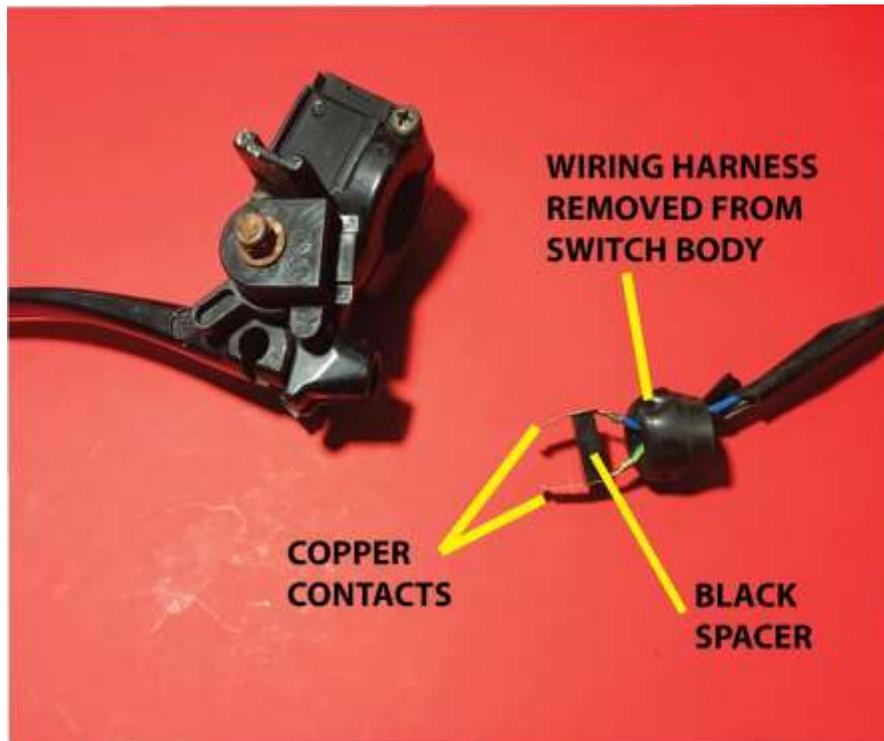


FIG. 14

Step 7. Swap the SnoScoot / SnoSport brake light switch wiring harness and connector over to the hydraulic brake system

Remove the brake light switch wiring harness and connector from the hydraulic brake system with the same process as step. 6.

Install the wiring harness from the original SnoScoot / SnoSport brake light switch onto the hydraulic brake system brake switch. Gently push the two copper contacts and black spacer into the brake light switch.

Install the (2) screws to secure the wiring harness to the brake light switch. Fold back the protective cover back onto the wiring harness body.

Feed the wiring harness and connector back down to the chassis wiring harness connector for the brake light switch.

Plug the brake light switch connectors together.

Test that the brake light is functional by pulling and releasing the brake lever several times and verifying the brake light is turning on and off.

This concludes the hydraulic brake conversion kit installation. ENJOY!!