

STRAIGHTLINE PERFORMANCE

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STRAIGHTLINE PERFORMANCE NITROUS WITH THE PATENTED (Pat. # 6,938,841) HOLTZMAN FLOW REGULATING NITROUS NOZZLE. Universal Twin Cylinder Fuel Injected Snowmobile Nitrous Kit

This kit is designed for most 2 cylinder snowmobiles with 2 carburetors. The universal kit includes the 15 gram per second nitrous nozzle. This nozzle will produce up to a 40hp increase over your stock machines power. Upgrade nitrous nozzles are available.

Nitrous Bottle Mounting: Bottle pressure must be kept at 1000 PSI (90F) or below; if located near exhaust, provide thermal protection such as a heat shield. If your bottle has a siphon tube, the bottle needs to be mounted upright or at a 15 degree angle, as seen in picture # 1, to make sure the end of the tube is in liquid nitrous. When using a bottle with no siphon tube, the bottle needs to be mounted upside down. (#2) When mounted, consider your application for riding (hillclimbing, drag racing, etc.) when positioning. The nitrous bottle outlet is on the same side as the corner that the siphon tube goes to. If the bottle is mounted vertical the bottom of the bottle needs to be supported or the brackets may fail. Failure to securely hold the bottle can result in damage and personal injury.

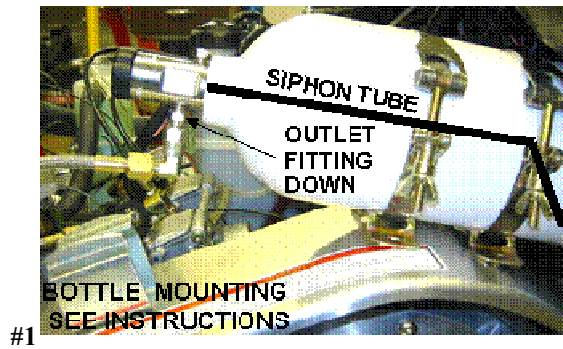
Nitrous/Fuel Valve: Connect the braided line to the bottle and nitrous inlet to the valve and mount the valve through a 7/16 hole away for the exhaust heat. Do not mount to the engine vibration will cause failure. Secure the wire to the valve to prevent flexing and breakage. **THE VALVE WILL NOT OPEN WITHOUT NITROUS PESSURE** (250 psi min) applied.

Install the Nitrous Nozzle: Do not remove the inlet fitting to the nozzle! The spray is perpendicular to the nozzles axis in a half circle fan pattern. Minimize nitrous contact with nearby solid surface. The nozzle may be mounted through a 1/2" hole about 3.5" to 5" above the carburetor inlets oriented so the spray will be across the inlets, or it may be located to spray at the inlets. Mount the nitrous nozzle using the supplied nylock nut. Fasten the 1/2" nut while holding the nitrous nozzle body with a 3/8" wrench. Connect the outlet to the nitrous valve using the 1/8" black nylon line. The 90 degree inlet fitting is optional for a side inlet to the jet (#3).

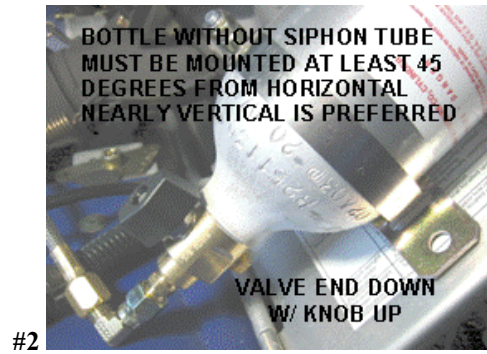
Fuel Nozzles and Fuel Valve: The jets are supplied with the standard kits per nitrous nozzle. The 7.5,10,12 and 15 uses a fuel jet size of .020 and the 20 uses a fuel jet hole of .028. Be sure that the hole in the fuel jet has not plugged before install. Drill a 1/16th hole in the carburetor boots and screw the fuel jet into the carburetor boots until tight. Do not over tighten and strip out rubber boots. Adding a slight amount of silicone rubber to the threads will help to ensure a good seal. Attach the fuel line to the barbed end of the fuel jet. Be sure to install the line entirely onto the jet. Place the fuel valve in a convenient location as close to the fuel jets as possible and connect the fuel valve to the 2 fuel jets placing a tee in between the boots, as in the example in picture # 4. Use the supplied settings in the nitrous explained as your initial fuel valve settings.

Fuel Access: Insert the supplied 1/4" X 1/8" X 1/4" tee into the pressurized fuel line downstream of the fuel pump and connect the "in" port of the nitrous fuel portion of the solenoid using 1/8" tubing from the fuel tee just installed. Connect the "out" port of the solenoid to the fuel valve using 1/8" tubing.

Electrical: If the machine has 12VDC ignition or a battery, the use of that as your power source will work. If not, the use of the AA battery holder will supply enough power for a typical season. When using the battery pack, do not let any of the exposed metal come in contact with any other items. Straightline suggests using a small holder to contain the batteries and keep out of contact with any other items. Mount the push button an accessible area for you to push under acceleration. Be sure that you do not have to let go to push the nitrous button.



#1 Bottle with Siphon Tube



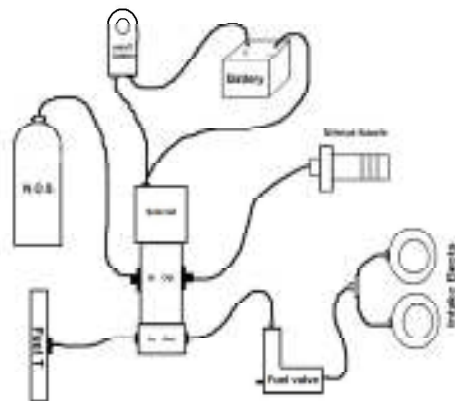
#2 Bottle with NO Siphon Tube



#3 90 degree nitrous nozzle adaptor



#4 Fuel line with T going into carburetor boots



Wiring Schematics for 12VDC/AA battery pack systems.