



SIDEWINDER (TM)(PAT PEND) VERTICAL REGULATOR

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MFG BY: LEADS METAL PRODUCTS, INC.

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The sidewinder regulator was designed specifically for use on the Excalibur (tm)(pat pend) because of its extremely low operating pressure. This regulator will work well on other guns, also. The design of the regulator permits the air hose to be connected to the gun in any location the user wishes within the 360 degree circle around the base of the regulator. The upper body of the regulator can be replaced with different length endcaps to allow the user to adjust the total length of the regulator.

Specifications:

Model: Sidewinder Regulator

Version: A

Gas Source: Compressed air, Nitrogen or CO2

Threads: Standard ASA

Length: 4.875 total length

Width: 1.00 dia main body/1.125 dia swivel sleeve

Weight: .308 lbs (With quick disconnect)

Externally Adjustable Output Pressure: 0-700 PSI

Input PSI to Sidewinder: 800 PSI MAX

Adjusting the Sidewinder Regulator:

Decrease output:

Looking at the regulator from the bottom, turn the allen wrench clockwise to decrease the pressure.

Increase output:

Looking at the regulator from the bottom, turn the allen wrench counter clockwise to increase the pressure.

Disassembly of Sidewinder Regulator:

To properly disassemble the Sidewinder regulator and not scratch the outside, you will need a few items: Two pieces of 2x4s about 4 inches long, a cloth strap wrench which can be purchased at a hardware or automotive store, a bench vise, a good adjustable wrench and a set of allen wrenches. The strap wrench can be used on many different things outside of paintball so it is handy to have around. Just follow the instructions and it will be easy.

1. Remove all air sources.
2. Clamp the regulator body upper and regulator middle between the two pieces of wood. The wood will keep the regulator's outside surface from getting scratched up.
3. Using the adjustable wrench on the swivel nut, un-screw the swivel assembly from the bottom of the regulator. Once loosened, unscrew the two pieces. Be careful not to lose the regulator washer and the o-ring that are on the inside this portion of the regulator.
4. Re-clamp the regulator between the two pieces of wood - clamp on the regulator body upper. Using the strap wrench loosen the regulator body middle from the regulator body upper. Inspect the o-rings for damage or wear. Replace if needed.
5. Once the two halves are separated you can remove the piston and springs from the regulator body middle. Be careful not to damage the piston or the o-rings. Remember in what order the parts came out of the regulator. Replace o-rings or springs, if needed.
6. To disassemble the swivel joint, clamp the threaded end of the swivel in between the two pieces of wood. Use the adjustable wrench to loosen the swivel nut. The swivel nut is BLUE LOC-TITED in place.
7. Using a gentle twisting action, gently pull the swivel sleeve from the regulator body lower. Inspect the o-rings for damage or wear. Replace if needed.