



200-BKO

TORNADO® (PAT 5791328)

BKO-Replacement Valve

By: AKA-LOW PRESSURE EXPERTS

Phone: 317-631-7200

Fax: 317-631-0325 Website: <http://www.akalmp.com>

E-mail: akapp@akalmp.com

We recommend that you consult a qualified airsmith for installation and please read instructions completely.

The BKO valve will only work properly with the use of an LPC and a very high flow regulator like the Sidewinder® (Pat. 6675791). Installation instructions V1.0, Nov, 02 supersede all previous instructions.

1. Remove all air sources connected to the marker. Remove all paint.
2. Disassemble the marker until you can take out the valve. Be careful not to damage any wires.
3. Carefully remove the stock valve from the BKO. You may have to push the valve out using a plastic dowel rod from the end of the body that the hammer fits into.
4. Using the o-rings from the stock valve body, place them on the Tornado valve body. Lightly oil the o-rings with AKA Extreme Lube paintball gun oil. Place the valve in the marker with exhaust hole in the appropriate position where it will be in the marker. Slide the valve into the marker. Slowly work the valve past the threads at the front of the marker. With a ball point pen, slowly push the valve all the way into the marker until the set screw counter bore lines up with the hole.
5. With the set screw counter bore lined up, place the original valve body set screw back into the marker body and tighten down gently.
6. Re-assemble the marker and install the larger volume LPC and VALVE SPRING onto the marker.
7. Check for leaks. With the Sidewinder reg. Set at 200 psi. you will have to return the LPR (Low Pressure Regulator) to get the correct velocity for about 300 fps or a little higher. You will also want to check the LPR piston to make sure the o-ring fit on the piston is correct and not so tight that the piston cannot move correctly.

VELOCITY ADJUSTMENT:

After you have set the LPR adjustment to get the correct velocity, you will only need to adjust the Sidewinder to raise and lower your velocity.

THE FOLLOWING MAY PREVENT ATTAINING MAXIMUM EFFICIENCY AND CAUSE LARGE VELOCITY FLUCTUATIONS:

1. Regulators that do not have high enough air flow capacity
2. Large bore barrels.