

Trick T Tools

Includes:

- 1x Raptor Valve base unit
- 1x 90 degree fitting w/ adjustment screw
- 1x standard 90 degree fitting
- 1x Hose
- 2x Plastic hose clips



Installation:

1. Remove cylinder from saw and remove valve and fittings. Be sure to do this over a catch pan to catch the hydraulic oil.

2. Install 90 degree fitting with the adjustment screw on the bottom port of the cylinder.



3. Install standard 90 degree fitting on the top port of the cylinder.



4. Install the cylinder back on the machine.

5. Place the Raptor Valve on the machine in your desired location. We suggest over the serial number tag. **Please note:** the magnets used on this valve are very strong- keep fingers and other objects clear when installing.

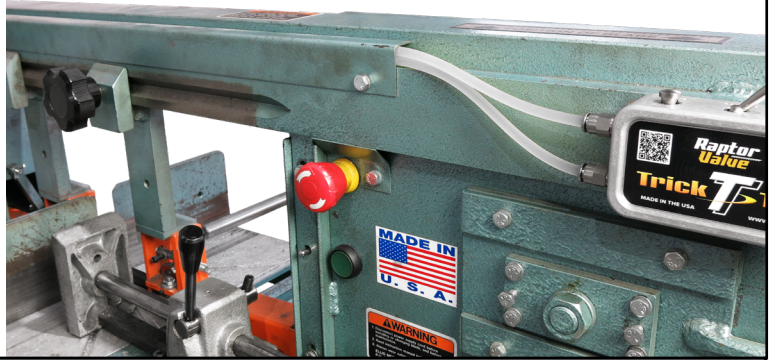
6. Route the hoses from the cylinder to the valve. Take care to ensure the ends of the tube are cut straight to avoid possible leaking at the fittings. Port "A" on the Raptor Valve will connect to the lower fitting with the adjustment screw on the cylinder and Port "B" will connect to the standard 90 degree fitting on the top of the cylinder.



7. There are two options for securing the hoses:

A) Remove the screws from the wiring safety shield and install the hose on the outside using the provided plastic hose clips.

B) Remove the wiring safety shield and hide the hose behind the shield. This may require cutting your guard shorter to avoid pinching of the hose.



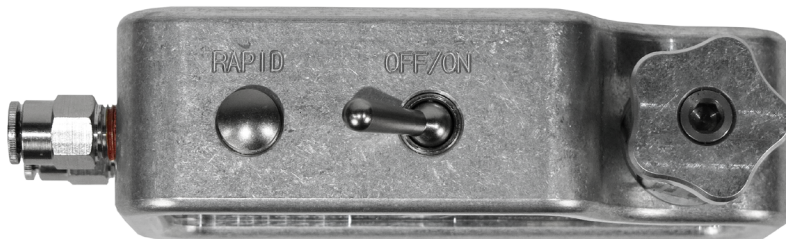
8. Adjust the needle valve on the cylinder with a small screwdriver and turn it all the way counterclockwise to full open the valve.



9. Fill the cylinder with hydraulic fluid. **Recommended oils - Hydraulic Jack Fluid, ISO 32, 10w.** Reinstall plug on cylinder. Cycle the head up and down to work air out of the system with the toggle valve in the 'on' position and feed adjustment valve fully open. Note that with everything fully open and air still in the system the head of the saw may fall rapidly. Hold onto the head of the saw while cycling the system. Continue filling and cycling the head until the cylinder is full. It may take several cycles to get all the air out. Reinstall the plug. Once done, the head of the saw should return all the way up to its original height.



10. Adjust the needle valve on the cylinder all the way clockwise to close and raise the head. Press and hold the rapid down feed button while slowly opening the needle valve with a screwdriver. Adjust open until the desired fall is achieved. (This may be the easiest with help from an additional person.) Repeat this process, adjusting a little at a time to get the desired rapid feed rate. Make sure you are comfortable with the speed of the rapid. If set too fast, it may result in crashing the blade into work pieces or premature wear on the blade.



11. You can now test the on/off switch and feed adjustment valve. If the head has any rapid falls or stops, continue cycling and check the hydraulic fluid level.



Trick-Tools.com

75 Truman Road
Pella, IA 50219

Phone: 1-877-VAN-SANT

E-mail: sales@trick-tools.com

