Professional Service Equipment

3501 S. Leonard Rd.
P.O. Box 728
St. Joseph, Missouri U.S.A.
Toll Free: (800) 821-7320
Phone: (816) 233-6121
Fax: (816) 233-7251
Email: gray@grayusa.com
www.grayusa.com

Piston/Seal Service Kit

TAJS-2000

Refer to the parts list while reading the following instructions.

1. Disconnect the air supply from the air valve, then completely lower the piston by exhausting all air from the cylinder.

2. Remove the six cap screws and lock washers from around the top of the cylinder.

3. Remove the head plate and then pull the ram and piston out of the cylinder. You will need to tilt the ram and piston to clear the up stop in the cylinder.

4. The cup may have remained in the cylinder. If so you will need to remove it and discard it.

5. Remove the wiper ring halves from the piston and discard them.

6. Thoroughly wipe the old grease from the cylinder and the ram and piston (cleaning of piston only required if a new one is not included in your kit).

7. Apply a light coat of grease to the cylinder walls and to the inside bottom of the cylinder. Then, following the direction on the “Tube-O-Lube” to open the tube, spray the graphite into the cylinder covering the greased walls.

Step 8 only applies to those kits, which DO NOT include an entire piston subassembly. If your kit does include an entire piston subassembly, skip to step 9.

8. Remove the elevator bolt and nut holding the cup onto the piston. Thoroughly clean the bottom surface of the piston of all grease. Apply (3M Super 77 Multipurpose Adhesive) to the cleaned bottom surface of the piston and to the mating surface of the new cup. It is very important to apply the adhesive to both surfaces. This adhesive holds the cup in place should the jack be pinned in an up position and the air exhausted from the cylinder. Allow the adhesive to dry for 30 seconds and then place the new cup onto the piston and reinstall the elevator bolt and nut. Be sure the lip of the cup is pointed downward.

9. Apply a light coat of grease to the piston rod weldment. Install the new wiper ring halves on to the piston and then install the piston rod weldment into the cylinder.

10. Grease the I.D. of the head plate and the topside of the piston with chassis grease. Assemble it to the cylinder and install six cap screws and lock washers and tighten.

11. The unit should now work smoothly. It should be noted that the unit will leak down with no load because the pressure required to push the piston out of the jack (approximately 1/2 psi) is not sufficient to expand the cup out to seal the unit from leaking. The unit needs around 3 psi to seal completely. To get a complete seal the unit requires a load of approximately 350 lbs.