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ADC175
LIFT CYLINDER KIT
INSTALLATION INSTRUCTIONS

REQUIRED TOOLS

- Large Flat Blade Screwdriver
- 3/16" Hex Key
- 5/8" & 9/16" Wrenches
- Diagonal Cutters
- Hydraulic Fluid (RPI Part #RPF449)
- Paper Towels or Shop Towels
- 22" Long Support

WARNING
MAKE SURE THE BASE IS PROPERLY SUPPORTED.
SERIOUS INJURY MAY OCCUR IF THE CHAIR BASE FALLS.

LIFT CYLINDER REMOVAL

1. Raise the chair to its highest position. Using the elastic cord that is under the toe board, lift and secure the toe board (see Figure 1).
2. Remove the hitch pin from the cylinder shaft using the large flat blade screwdriver (see Figure 2). Lower the chair base to it's lowest position and disconnect the power to the chair, then unplug the "A" box printed circuit board (PCB) and remove.
3. Turn the swivel brake (see Figure 1) on the chair fully clockwise to the locked position. Using a support that is approximately 22" long lift the base and rest the base crossmember on the support (see Figure 2). **Caution:** When the base is raised the shaft of the cylinder will drop from the mounting hole (see **WARNING** above).
4. Disconnect the vent tube plug located near the tilt cylinder (see Figure 3). Next, remove the sleeve clamp from the clear breather tube that comes from the lift cylinder and disconnect the tube from the barb (see Figure 4).
5. Using diagonal cutters, cut the cable tie freeing the high pressure hose from the cylinder. Remove the socket head cap screw from the bottom portion of the lift cylinder (see Figure 4).
6. Position paper towels or shop towels under the tilt cylinder to catch oil. Use a 9/16" wrench to hold the fitting on the high pressure hose. With a 5/8" wrench, loosen the connection and disconnect the high pressure hose from the elbow (see Figure 4). **DO NOT TURN OR LOOSEN THE ELBOW FITTING ON THE CYLINDER.**
7. Slide the cylinder out from the chair base. Remove the washer from the cylinder and install it on the shaft of the new lift cylinder (see Figure 5).

LIFT CYLINDER INSTALLATION

8. Use the **new** socket head cap screw to install the lower end of the lift cylinder (see Figure 4).
9. Extend the shaft of the cylinder through the mounting hole in the lift structure mounting bracket. Make sure all cabling and tubing are properly reattached to cylinder body using cable tie.
10. Attach the clear breather tube and sleeve clamp to the barb of the new cylinder, then use the wrenches to install the high pressure hose. Make sure that the high pressure hose is properly tightened to prevent leaks. **DO NOT TURN OR LOOSEN THE ELBOW FITTING ON THE CYLINDER** (see Figure 4).
11. Turn the shaft of the cylinder so that the hitch pin hole is vertical. Connect the "A" box PCB and plug in the chair.
12. The shaft of the cylinder must be through the hole in the lift structure. Raise the chair base to the highest position, remove the support block and install the hitch pin into the hole through the shaft (see Figure 5).
13. Apply a light coat of RPI Hydraulic Fluid (RPI Part #RPF449) to the shaft of the cylinder.
14. Actuate the chair base up and back several times to purge any air in the lines. If the chair jerks or is noisy it may need Hydraulic Fluid (RPI Part #RPF449).
15. Verify proper operation of the chair. Clean any residual oil that may have spilled. Reinstall the vent plug (see Figure 3) and check for leaks. Attach all covers and return chair to full down position.

FIGURE 1

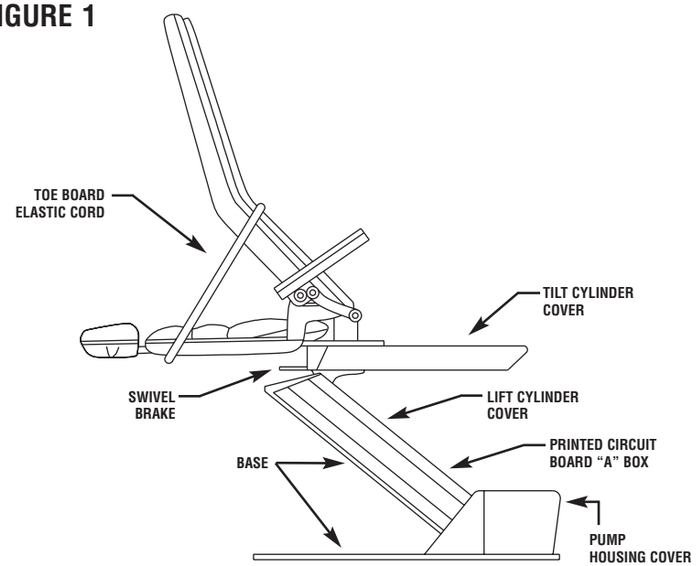

FIGURE 2

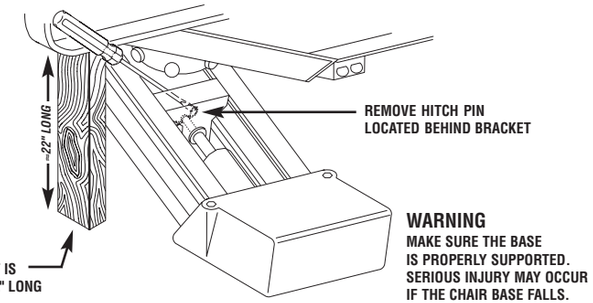

FIGURE 3

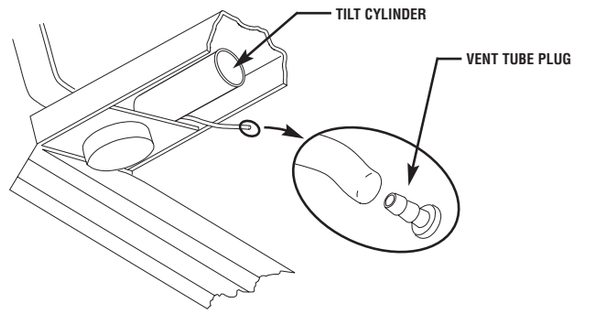

FIGURE 4

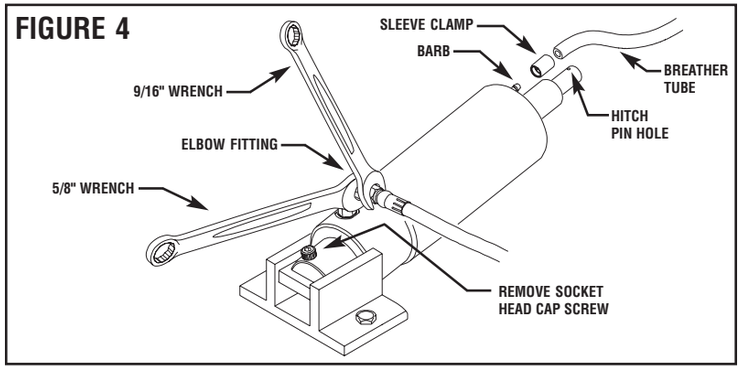

FIGURE 5