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ADC177 TILT CYLINDER KIT INSTALLATION INSTRUCTIONS

REQUIRED TOOLS

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

TILT CYLINDER REMOVAL

1. With the chair back in the full down position, raise the toe board and secure by using the roller assembly to hold in place (see Figure 1) or remove the toe board upholstery to gain access (see Figure 2).

WARNING

**CHAIR BACK MUST BE SUPPORTED SO THAT IT
WILL NOT FALL WHEN TILT CYLINDER IS DISCONNECTED**

2. Disconnect the power to the chair.

WARNING

**DO NOT PRESS THE "BACK UP" POWER BUTTON IF THE
ROLLER LINK IS LIFTED. IT MAY CAUSE DAMAGE TO THE CHAIR.**

3. Using the 9/16" wrench disconnect the high pressure hose from the right angle fitting of the cylinder. Use a towel to catch any residual hydraulic fluid.
4. Prop the chair to expose at least 3" of the cylinder rod.
5. Disconnect and save the sleeve clamp that holds the clear plastic vent tube to the barb. Disconnect vent tube from barb.
6. Using the 3/16" hex key unscrew the setscrew that holds the tip of the cylinder shaft to the lug freeing the shaft end of the cylinder from the chair (see Figure 3).
7. Hold cylinder body and remove E-rings from the axle. Slide axle out through the hole in the base of the cylinder (see Figure 3).

FIGURE 1

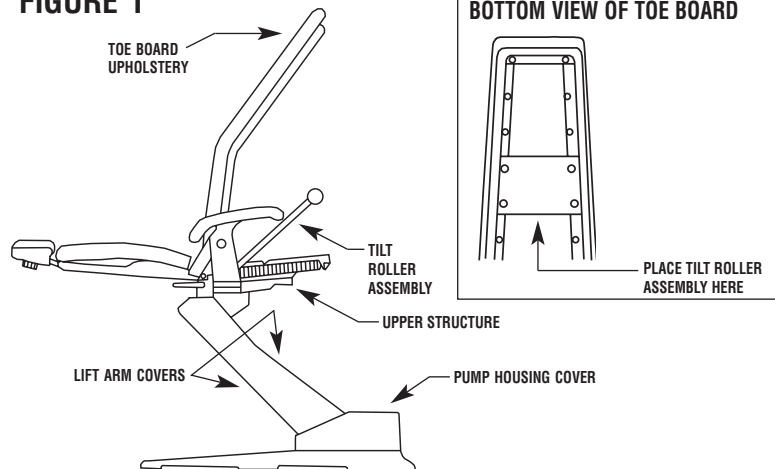
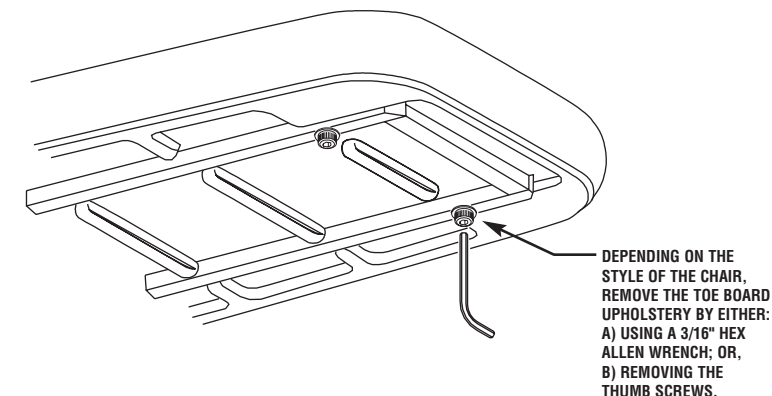


FIGURE 2



TILT CYLINDER INSTALLATION

8. Ensuring that the elbow is facing downwards, slide axle through hole in the base of the new cylinder and attach E-rings (see Figure 3).
9. Position the tip of the shaft of the new cylinder into the lug. Use the 3/16" hex key to tighten and secure the set screw (see Figure 3).
10. Attach the clear plastic vent tube to the barb on the body of the cylinder and secure with the sleeve clamp that was removed from the old cylinder.
11. Place a towel under the high pressure hose port, remove chair back support and allow the back of the chair to fully retract the cylinder.
12. Use the 9/16" wrench to attach and tighten the high pressure hose to the fitting on the cylinder (see Figure 3).
13. Reconnect power to the chair and raise the back so that most of the cylinder rod is exposed. Use a small amount of RPI Hydraulic Fluid (RPI Part #RPF449) on a towel and lubricate the exposed cylinder rod.
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. Connect the vent plug and check for leaks. Attach all covers and return chair to full down position.

FIGURE 3

