



**Guide to Replacing the Tube
Keeper for U5000AT+**

Tools needed:

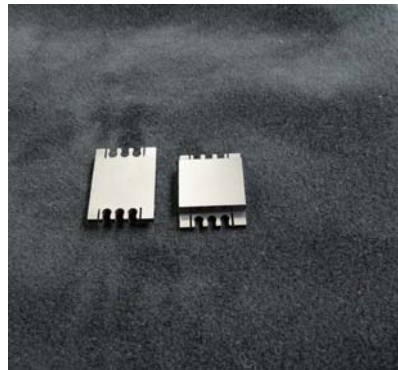
A) #2 Phillips

B) #1 Phillips

C) Needle nose pliers

Part Replacement:

Tube Keeper



- 1) Disconnect tubing waste lines and remove the pump tubing from the pump.
- 2) Remove the power cord from the instrument.
- 3) Turn the unit upside-down and remove the (12) screws from the bottom cover using a #2 Phillips screwdriver. **Figure 1**

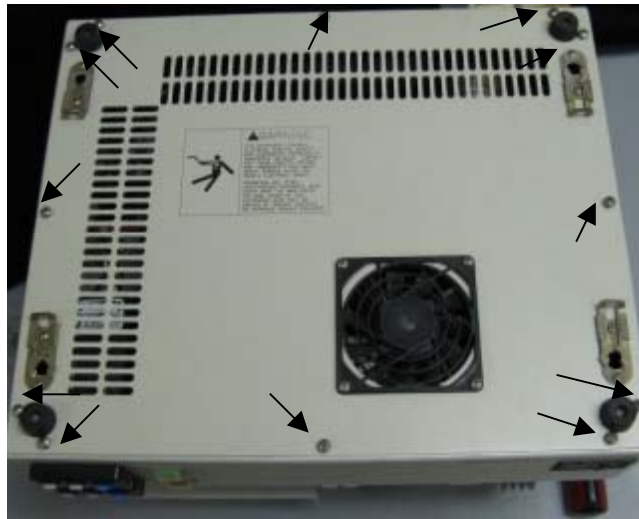


Fig. 1

- 4) Disconnect the fan, and set aside. **Figure 2**

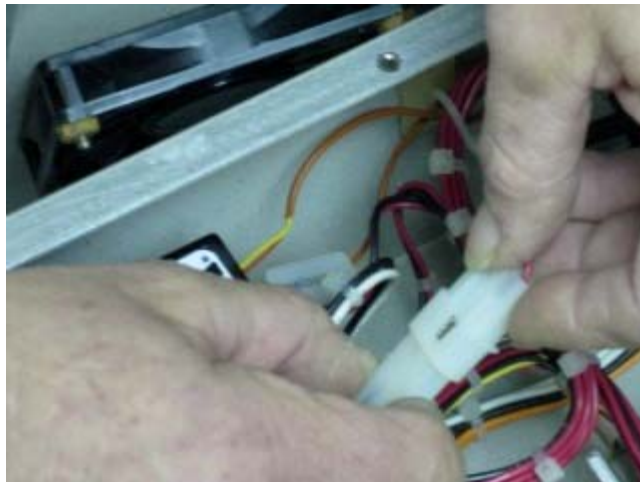


Fig. 2

- 5) Remove the (2) screws and nuts that hold the pump to the chassis. **Figure 3**
(Note: You may need to use a pair of needle nose pliers to hold the nut while removing the screws.)

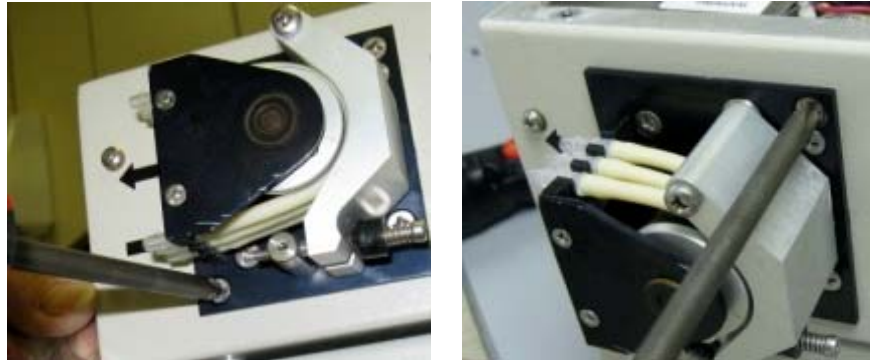


Fig. 3

- 6) Unplug the power wires to the pump and remove the pump.
(Note: It may be difficult to see the polarity on older pumps, therefore it is important to note the orientation of the red and black wires before removing them.) **Figure 4**

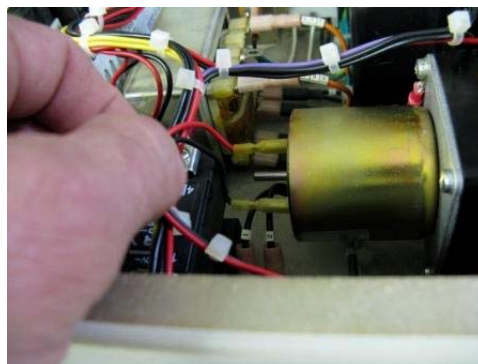
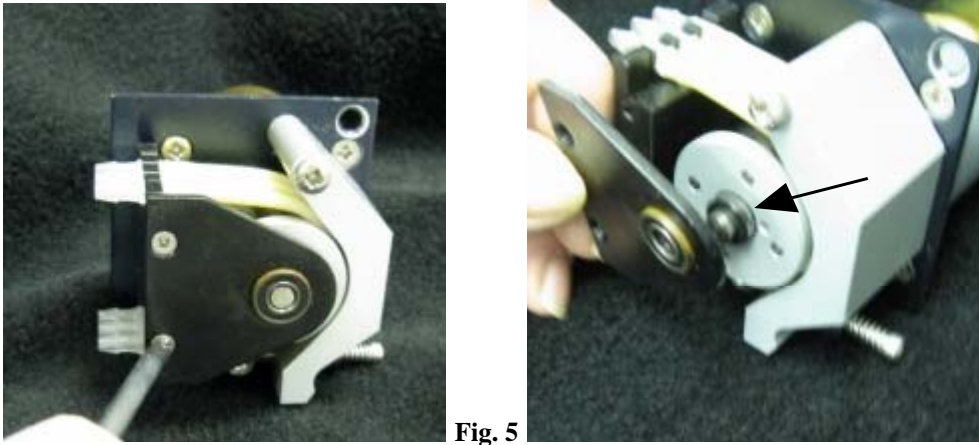


Fig. 4

- 7) Using a #1 Phillips screwdriver, remove the two screws that hold the rotor stabilizer bracket to the pump. Remove the bracket being careful not to lose the plastic washer underneath the bracket. **Figure 5**



- 8) Using a #1 Phillips screwdriver you will need to remove the two screws from the inside of the pump that hold the tube keeper to the pump plate. **Figure 6**



Fig. 6

- 9) When replacing the Tube Keeper it is important to orientate the part with the flat side facing out. **Figure 7**

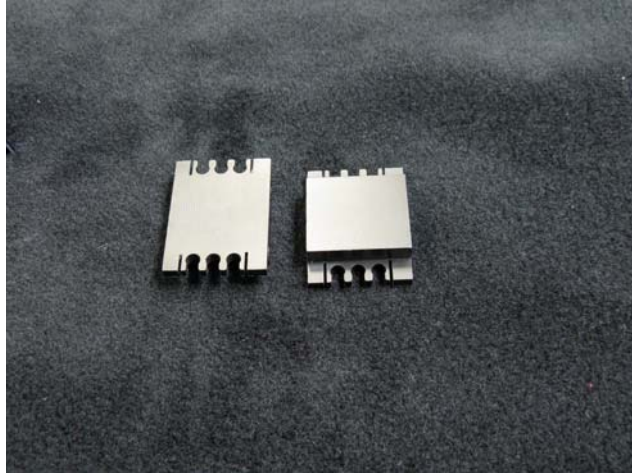


Fig. 7

- 10) Using a #1 Phillips screwdriver attach the new Tube Keeper to the inside of the pump first. **Figure 8**



Fig. 8

- 11) Install the plastic washer and the rotor stabilizer bracket with (2) screws using a #1 Phillips screwdriver. **Figure 9**

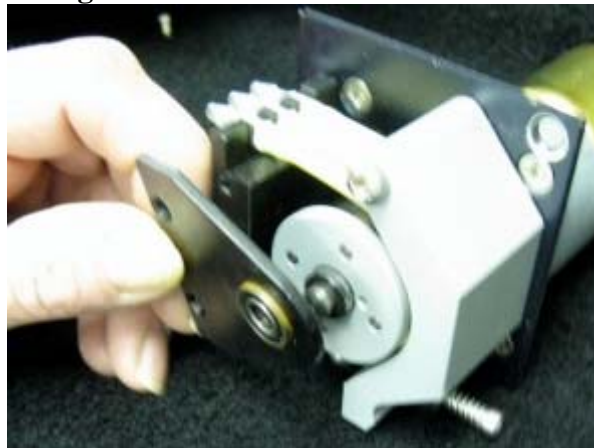


Fig. 9

12) Place pump back in unit and connect the two power wires. **Figure 10**

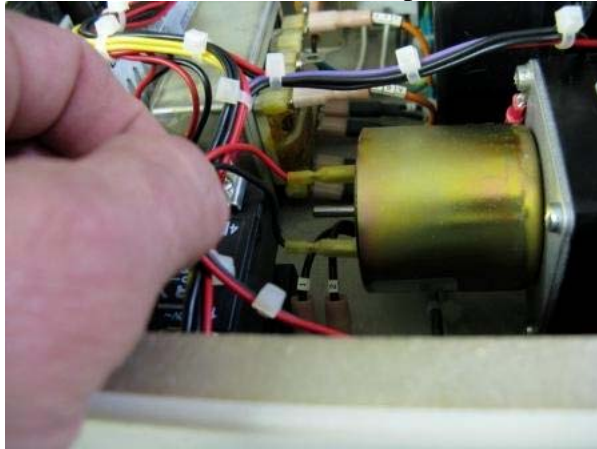


Fig. 10

13) Place bottom cover back on and using a #2 Phillips screwdriver install all (12) screws. **Figure 11**



Fig. 11

