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## PCK742 BRAKE REPAIR KIT INSTALLATION INSTRUCTIONS

**WARNING:** When working on the lift assembly of any dental chair in the full upright position, always brace or prop the chair to prevent any downward motion that could result in personal injury.

- 1) Actuate chair into full upright position. **See WARNING above!**  
*Note: If the motor is not working, remove the two screws from the Base/Lift Assembly that holds the ball shaft anchor in place. Then lift the upper section and support it in place with a brace.*
- 2) Disconnect power to chair.
- 3) Remove attaching screws and Rubber Bellows to expose the Lift Motor Assembly.
- 4) Prop or brace chair to prevent downward motion. Remove attaching screws and drop bellows cover.
- 5) Remove Brake cover from rear of the Lift Motor.
- 6) Note how the Brake/Clutch assembly is installed on the motor – square side of Hub towards Motor Body. After removing the three (3) socket head bolts, slide the brake assembly off the shaft.
- 7) Remove both pressure plates from the Brake/Clutch assembly and clean them with isopropyl alcohol or lacquer thinner.
- 8) One at a time, remove the o-rings and springs from the socket head bolts and replace with new washers and springs. (Please note: The RPI Kit includes washers instead of o-rings for better durability.) Discard the old o-rings and springs.
- 9) Attach pressure plates to the new Brake/Clutch assembly and re-install onto the motor using the three (3) socket head bolts with the new springs and washers. The flat/machined surfaces of the pressure plates should face toward the brake disc surface.  
**NOTE: Pressure plates must move freely up and down on the bolt shafts without binding. Adjust this movement by tightening or loosening the three (3) mounting bolts until the pressure plates move smoothly.**
- 10) Re-install the brake cover.
- 11) Ensuring safety, remove the support brace installed in Step #1.
- 12) Reconnect power to chair.
- 13) Check operation of chair. If momentary drift occurs, refer to the Belt Tension Adjustment procedure on the reverse side.
- 14) Reattach the Rubber Bellows.

**If motor replacement is needed, order Lift Motor (RPI Part #PCM745).**



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## LIFT MOTOR BELT TENSION ADJUSTMENT

**WARNING:** Loosening of the drive belt will allow the lift assembly to collapse unless it is propped up and secured.

**Depending on the Serial number of the Pelton & Crane Chairman chair that you are working on, there are three different ways to adjust the lift motor drive belt:**

### Serial No. 1001-1198

Normal belt tension is achieved when you have a belt deflection of 3/32nds to 1/8th of an inch with normal finger pressure applied. Adjust the belt tension by adding or removing shims between the motor mount and the lift motor.

### Serial No. 1199-10165

Normal belt tension is achieved when you have a belt deflection of 3/32nds to 1/8th of an inch with normal finger pressure applied. To change the belt tension, loosen the two motor mounting screws on the same side as the adjustment screw. Tightening the adjustment screw will increase belt tension. Loosening the adjustment screw will decrease belt tension. After adjusting the belt tension, tighten the motor mounting screw closest to the motor first and then tighten the mounting screw closest to the belt.

### Serial No. 10166 and above

The belt tension for this series of chairs is measured a bit differently. Proper belt tension is approximately 1/32nd to 1/16th of an inch when measuring the slack between opposing unsupported belt lengths between pulleys. There is a worm screw clamp that is used to adjust belt tension. Proper belt tension should be measured when approximately 1-1/4" of the clamp is beyond the adjusting screw. When tightened, the clamp adjustment screw should be located approximately 1/2" off center of the lift motor.