CAUTION:
Turn off electricty at circuit breaker before working on evaporative cooler.

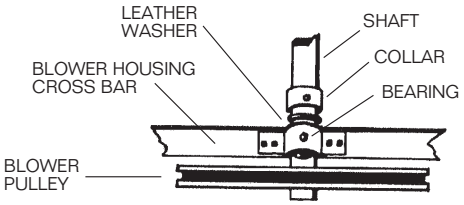
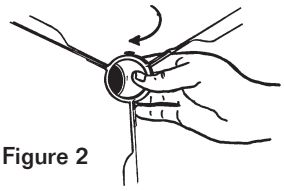
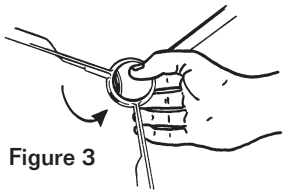


Figure 1


Figure 2


Figure 3

1. Remove dirt, rust, and corrosion on end of shaft next to pillow block bearing. Use a cleaning agent (such as Dial's "Zoom Spout Rust Buster"), rags, an emery cloth, and/or a fine file.
2. If replacing bearing assembly on blower pulley end of shaft, first remove dirt, rust and corrosion, then blower pulley by:
    a. Loosen blower pulley set screw.
    b. Remove pulley with pulley puller. For hollow shafts, insert a temporary metal plug or metal disc to support pulley puller.
3. Remove pillow block bearing assembly bolts and nuts. Loosen bearing assembly from shaft (light tap with hammer, or use pulley puller and temporary "plug") and slide bearing assembly off shaft.
4. Inspect shaft for excessive wear or damage. Replace shaft if needed.
5. Place new pillow block bearing assembly onto shaft. Tighten bolts and nuts.
6. If needed, place blower pulley onto shaft and align with motor pulley using straight edge. Tighten set screw. Check belt tension for 1/2" to 3/4" belt deflection with 3 lbs. of force and adjust if needed.
7. Check shaft end-play. Push and pull on blower pulley. If movement exceeds 1/16" (approximate thickness of a dime), loosen shaft collar and adjust end-play to be nearly 1/16". Re-tighten shaft collar onto shaft.
8. Fill bearing oil reservoir with SAE #20 non-detergent oil if needed.

IMPORTANT: For normal daytime cooler operation, refill bearing oil reservoir every 60 days with Dial "Zoom Spout Cooler Oil," Dial "Qwik Lube," or SAE #20 non detergent oil. For constant daytime and nighttime operation, oil every 30 days.

Replacement of Bearing and Cushion on Spider Arm Bearing Assemblies:

1. Remove old bearing ball and cushion from spider arm support brackets:
    a. Rotate bearing ball sideways 90° (Figure 2).
    b. Roll bearing ball out from bottom of support (Figure 3).
    c. Remove old cushion.
2. Remove bearing ball and cushion from new pillow block brackets. Follow same procedure as step 1 above.
3. Install new cushion into spider arm support.
4. Install new bearing ball by reversing procedure of step 1 above. Use liquid dishwashing soap as a lubricant.