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



- 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.