

**PROCEDURE FOR REPAIRING WATER LEAKS AROUND MOTOR SHAFT  
OF TRAVEL TRAILER AIR CONDITIONER**

When a leak around the motor shaft exists, the water is entering under the rubber motor seal which presses down against the base pan, or it is entering between the base pan and the roof skin. Since it is usually difficult to determine at which of the two points the leak has occurred, it is wise to go through the entire procedure outlined below.

1. Drill out pop rivets which hold protective screen on top of the condenser using a #30 drill. Usually it is not necessary to remove the shroud or top cover.
2. Remove fan blades and motor. Place the motor to one side, being careful not to put excessive strain on lead wires. Clean excess oil and dirt from the condenser pan and rubber motor seal.
3. Remove 1" O.D. sleeve by removing tinnerman retainer on inside of trailer.
4. Drill out pop rivets on either side of the 1" diameter hole with #30 drill.
5. Working through the 1" diameter hole, separate trailer skin and condenser base pan and force silicone rubber sealant between them in a complete circle and as far back under the pan as possible.
6. Re-pop two existing pop rivets--use index finger through 1" hole to make sure rivets engage skin with sufficient length to hold securely. Drill and pop two more rivets the same distance from the 1" diameter hole so you will have a pattern of four equally spaced rivets around the 1" diameter hole. Use the same procedure to make sure pop rivets engage the roof skin. Cover each rivet head with silicone rubber sealant.
7. Add two 1/2" drainage holes just inside the support angles which are riveted to the base pan so the two drainage holes will line up with the 1" diameter hole. Drill only through the condenser base pan, being very careful not to penetrate the roof skin. (All new units now have drainage holes.)
8. Reinsert 1" O.D. tube and tinnerman retainer.
9. Clean area around 1" diameter hole where the motor seal contacts the pan and apply a liberal amount of silicone rubber sealant.
10. Reinstall motor, blades and protective screen. Check rubber washer seal on shaft at top motor hub and make sure edges are turned down--not up.

NOTE - On all new installations where sealant is used, use the silicone rubber sealant--for industrial uses it is specified by G.E. as RTV. This sealant is also available through supply houses, hardware, etc. in three ounce tubes designated as bathtub seal (white), clear seal (clear), auto seal (black), and metal seal (aluminum) by G.E. Dow-Corning also has a bathtub seal which is silicone rubber and acceptable. Silicone rubber adhesive sealants are ready to use, permanent and waterproof. These sealants form a tough flexible bond that won't shrink, crack or harden in temperatures from -75°F to +500°F.