

AMERICAN TURBINE

IMPELLER / WEAR RING SHIMMING INSTRUCTIONS

AT, TJ, SD-309, DOMINATOR, BERKELEY, ENERGIZER KITS

Tools Needed:

1. .030 Feeler Gauge
2. Propane Torch
3. Bent Screw driver
4. WD-40
5. Impeller Wrench
6. 3/4 Wrench
7. 9/16 Wrench
8. Dead Blow Hammer



To remove old wear ring:

Use a propane torch. Place the flame on the brass ring go around in a circular motion until the insulator starts to melt. Grab the ring with a bent over screwdriver (90deg.) and pull out. Clean up wear ring bore.

Installation:

Place wear ring in freezer for four hours. Place insulator in suction bore. Spray with WD-40. Start wear ring by hand. Tap wear ring in using a wooden block and a mallet. You may use an old impeller but it may bottom out on the shaft before seating the ring.

Important:

Wear ring must be seated square in the bore with-in 0.004" side to side.

The axial clearance between the impeller and the impeller shoulder must be 0.025"-0.035" (check several places around the wear ring). Check again after the impeller nut has been tightened.

Use Zinc Anti-seize for steel lock nut. Use Red Loctite for aluminum nut. Torque impeller nut to 150 ft/lbs. Torque bowl bolts to 50 ft/lbs.