
Rotor Repair Kit

For replacing rotor/impeller units on
SM and SMT (Recirc[®]) and ACT (Autocirc[®])
Series 303 Circulators



INSTALLER: PLEASE LEAVE THIS MANUAL FOR THE OWNER'S USE.

To the pump Owner:

Complete the information below on the new rotor and retain for your records.

Pump Model No. _____

Pump Serial No. _____

Date New Rotor Installed _____

Warranty claims for rotor/impeller units must include the model number and serial number of pump, the date rotor was installed, and proof of purchase and/or installation.

The rotor unit (or rotor) is designed to give many years of service beyond the warranty period on the pump. If the unit has failed prematurely, it may be due to a deficiency in the circulating system rather than the pump.

Replacing the Rotor

1. Disconnect the electric power and close the isolation valves (ball valves) to shut off the water around the pump. Close angle stops if your pump is an ACT-303-BTW (Autocirc).
2. Turn the screw ring around the housing and remove the pump motor.
3. Remove the rotor as illustrated below:



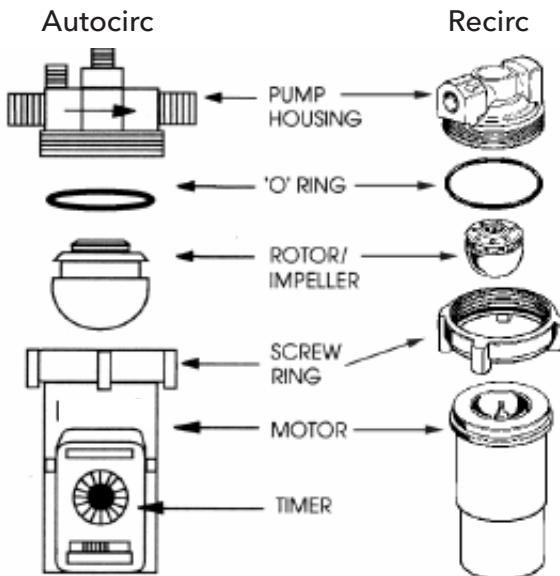
Remove Rotor/
Impeller taking
between fingers
and thumb.



Or, if Rotor/Impeller
sits too tightly, by
levering off evenly
with two screwdrivers.

4. Ensure the bowl of the pump motor is free of debris and mineral deposits. Clean with water if necessary.
5. Check the bearing ball in the pump motor to make sure it is still intact and is not chipped or otherwise damaged. The ball should sit firmly on the support post without moving. Do not attempt to pull the bearing ball off or remove the pin that holds the ball in place. If the bearing ball can be turned with the fingers or is damaged, the entire drive unit must be replaced.
6. Insert the new rotor into the pump motor by pressing it straight down onto the bearing ball until it "snaps" into place. Once in place, it should resist removal.

7. Before installing the pump motor back into the housing, reconnect the electrical supply and run the pump for a few seconds ONLY, to make sure the rotor unit rotates freely.
8. If operation is normal, replace the old O-ring (it may still be in the housing) with the new one provided in the rotor repair kit. The O-ring should always be replaced when installing a new rotor.
9. Screw the pump motor into the housing. Hand tightening is sufficient. **Do Not Over Tighten.**
10. Reopen isolation valves or angle stops and check for leaks.
11. Purge all of the air from system for both Autocirc and Recirc circulators. Purge the air from the supply line by turning on the faucet furthest from the water heater. For recirculation systems with a return line, purge the air from the return line by turning the pump on and off several times. Continue until the gurgling sound stops. With the pump running, open the hose bib on the discharge side of pump until the pump runs quietly and no more sputtering or evidence of air is coming from the hose bib. **Do Not Exceed 3GPM of Water Through the Hose Bib for 1/2" Line.**



Goulds Water Technology Branded Products

Limited Consumer Warranty

For goods sold for personal, family, or household. Seller warrants the goods purchased hereunder (with the exception of membranes, seals, gaskets, elastomer materials, coatings, and other "wear parts" or consumables all of which are not warranted) will be free from defects in material and workmanship for a period of one (1) year from the date of installation or twenty-four (24) months from the date of manufacture (which date of manufacture shall not be greater than thirty (30) days after receipt of notice that the goods are ready to return) whichever shall occur first.

Except as otherwise required by law, Seller shall, at its option and at no cost to Buyer, either repair or replace any product which fails to conform to the Warranty provided Buyer gives written notice to Seller of any defects in material or workmanship within ten (10) days of the date when any defects or non-conformance are first manifest. Under either repair or replacement option, Seller shall not be obligated to remove or pay for the removal of the defective product or install or pay for the installation of the replaced or repaired product and Buyer shall be responsible for all other costs, including, but not limited to, service costs, shipping fees, and expenses. Seller shall have sole discretion as to the method or means of repair or replacement. Buyer's failure to comply with Seller's repair or replacement directions shall terminate Seller's obligations under the Warranty are warranted only for the balance of the warranty period on the parts that were repaired or replaced. The Warranty is conditioned on Buyer giving written notice to Seller of any defects in material or workmanship of warranted goods within ten (10) days of the date when any defects are first manifest.

Seller shall have no warranty obligations to Buyer with respect to any product that have been: (a) repaired by third parties other than Seller or without Seller's written approval; (b) subject to misuse, misapplication, neglect, alteration, accident, or physical damage; (c) used in a contrary to Seller's instructions for installations, operation, and maintenance; (d) damaged from ordinary wear and tear, corrosion, or chemical attack; (e) damaged due to abnormal conditions, vibration, failure to properly prime, or operation without flow; (f) damaged due to a defective power supply or improper electrical protection; or (g) damaged resulting from the use of accessory equipment not sold or approved by Seller. In any case of products not manufactured by Sellers, there is no warranty from Seller; however, Seller will extend to Buyer any warranty received from Seller's supplier of such products.

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To make a warranty claim, check first with the wholesaler or seller from whom you purchased the product or visit www.xyleminc.com for the name and location of the nearest representative providing warranty service.



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