

RCS Stock Chiller SC01 Maintenance Instructions: Replacing O-rings

Before performing any maintenance operation with the Stock Chiller, it is IMPORTANT and NECESSARY to disconnect the power supply to the unit by unplugging the electrical cord from the outlet. Do not attempt to turn on the unit while the motor covers are unsecured. There are high speed rotating machinery hazards and electrical hazards when the motor cover is not secured and the unit is plugged in.

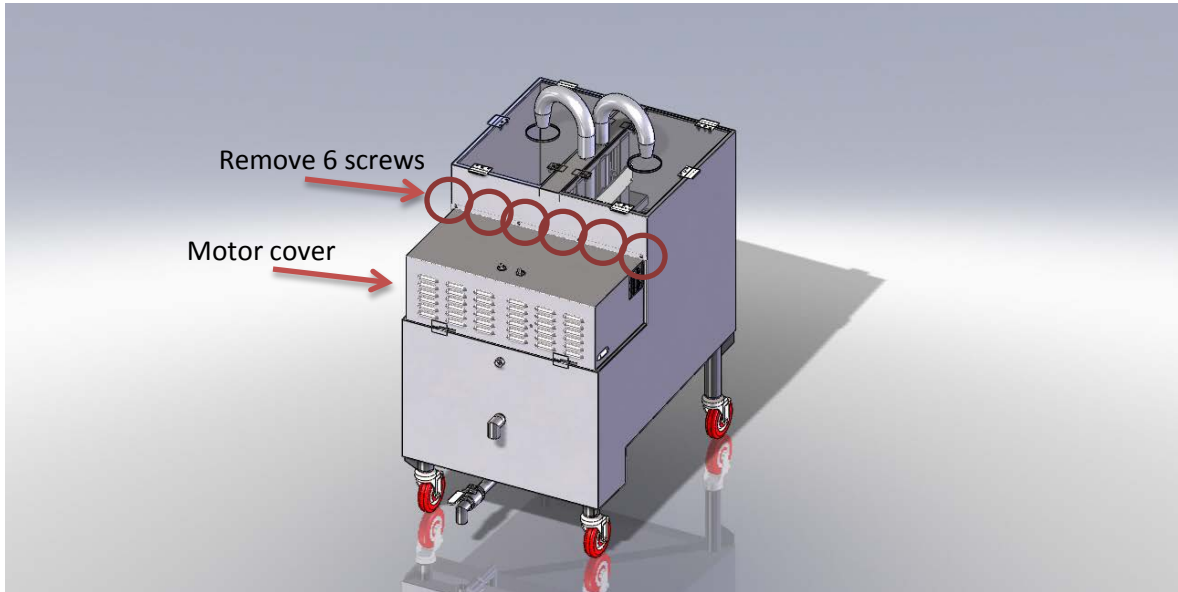
Tools needed:

- 10 replacement O-rings
- Phillips head screw driver or variable speed driver with a Phillips head bit
- 1/8" hex key

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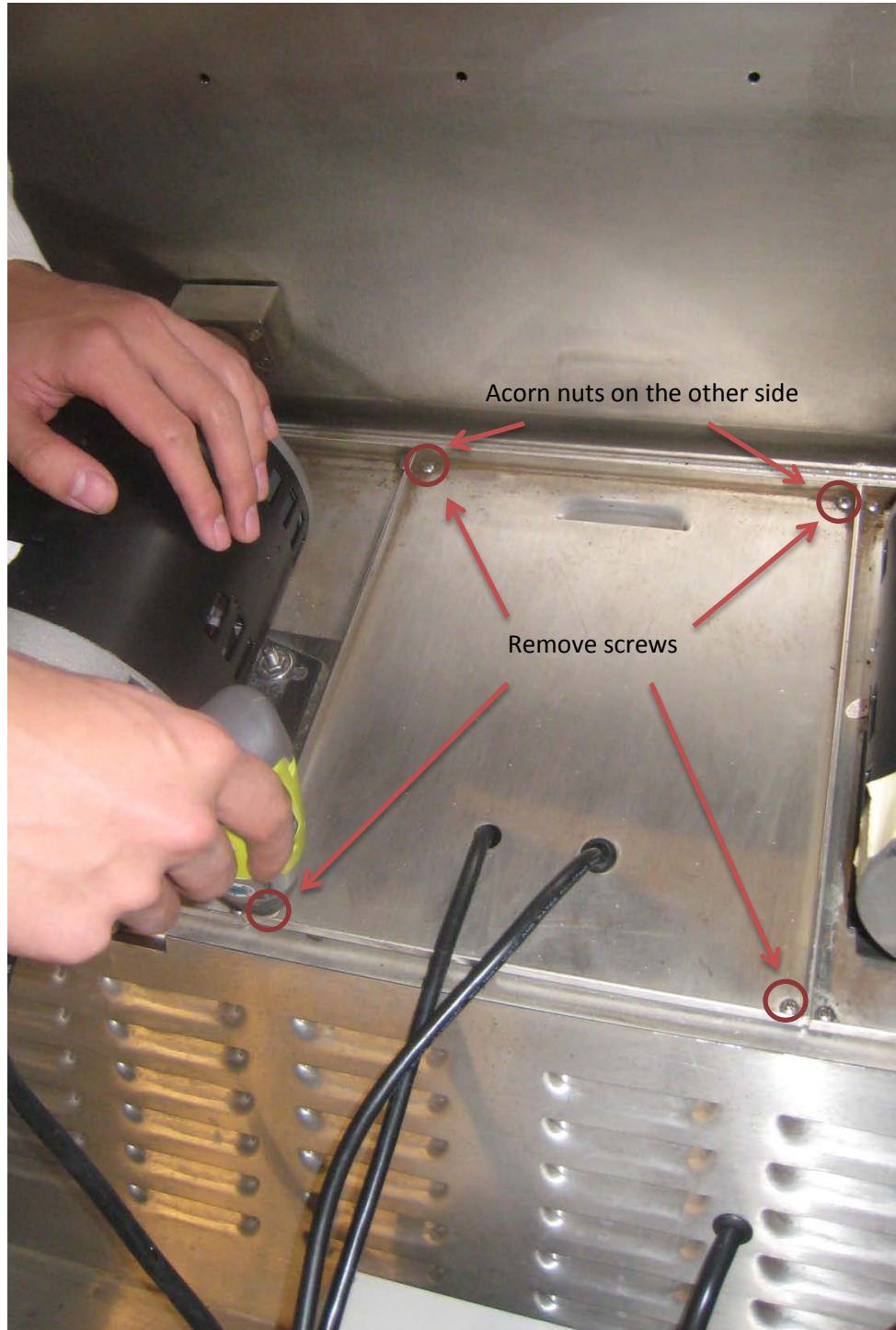
Directions:

1. Remove the motor cover by removing the 6 screws holding it in place. A wrench needs to be placed on the acorn nuts in the chilling bay while loosening the screws. Hold onto the hardware (washer, locknut, and acorn nut) when finally removing the screws from the holes. Save all the hardware.



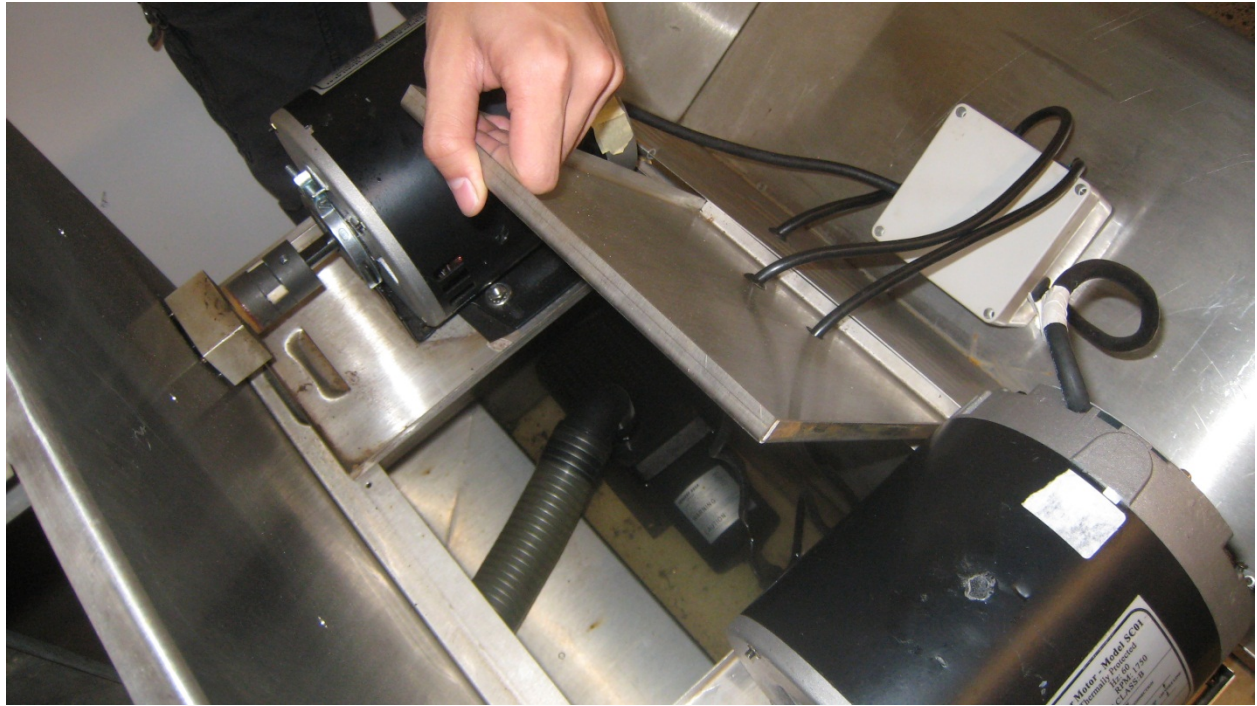
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2. After opening the motor cover, remove the screws around the pump access plate (the center plate in between the two motors). There are acorn nuts on the other side of the plate to remove the screws nearest to the chilling bay. The acorn nuts need to be held in place with a wrench to remove these screws.



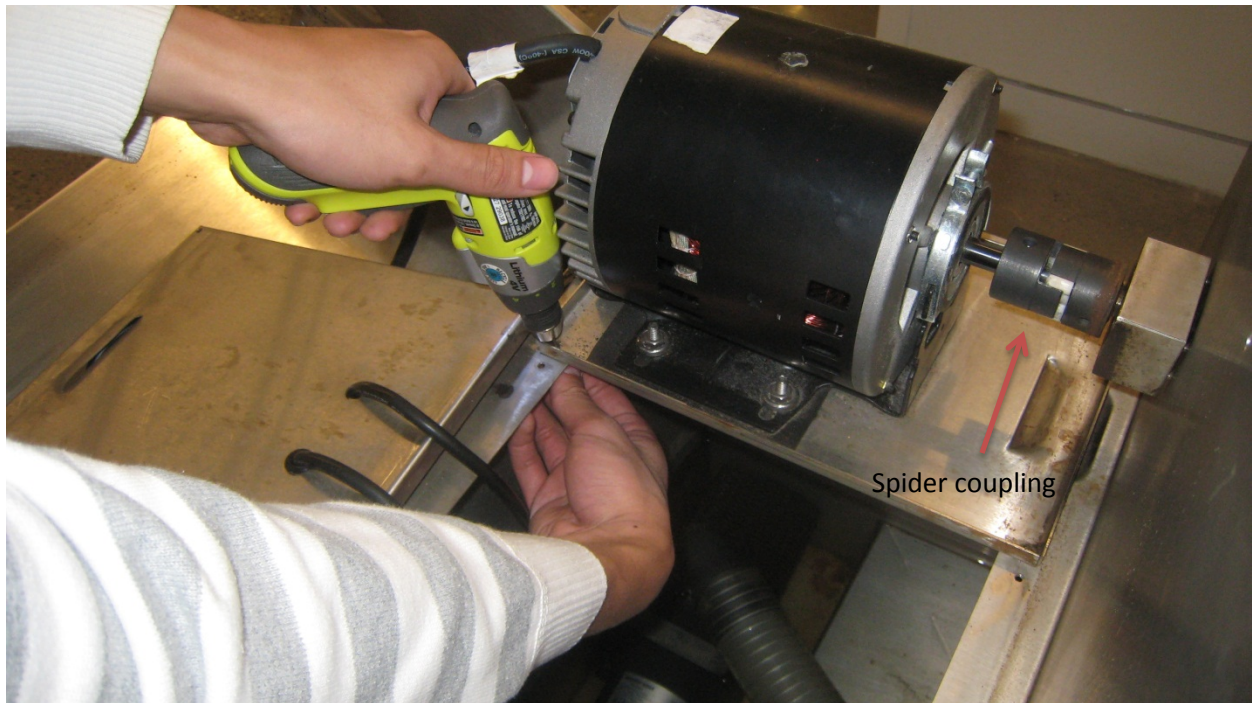
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3. Removing the pump access plate allows you to remove the motor mounting plates. Continue maintenance by servicing only one side of the unit at a time.



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4. Reach through the pump access area and hold the acorn nuts to remove the screws securing the motor mounting plates. There are 4 screws to remove, at each corner of the motor mounting plates.



5. Back the motor mounting plates with the motors still attached enough so the spider coupling separates into two hubs. Remove the hub situated near the chilling bay wall. The hub can be removed by loosening a set screw with a hex key.



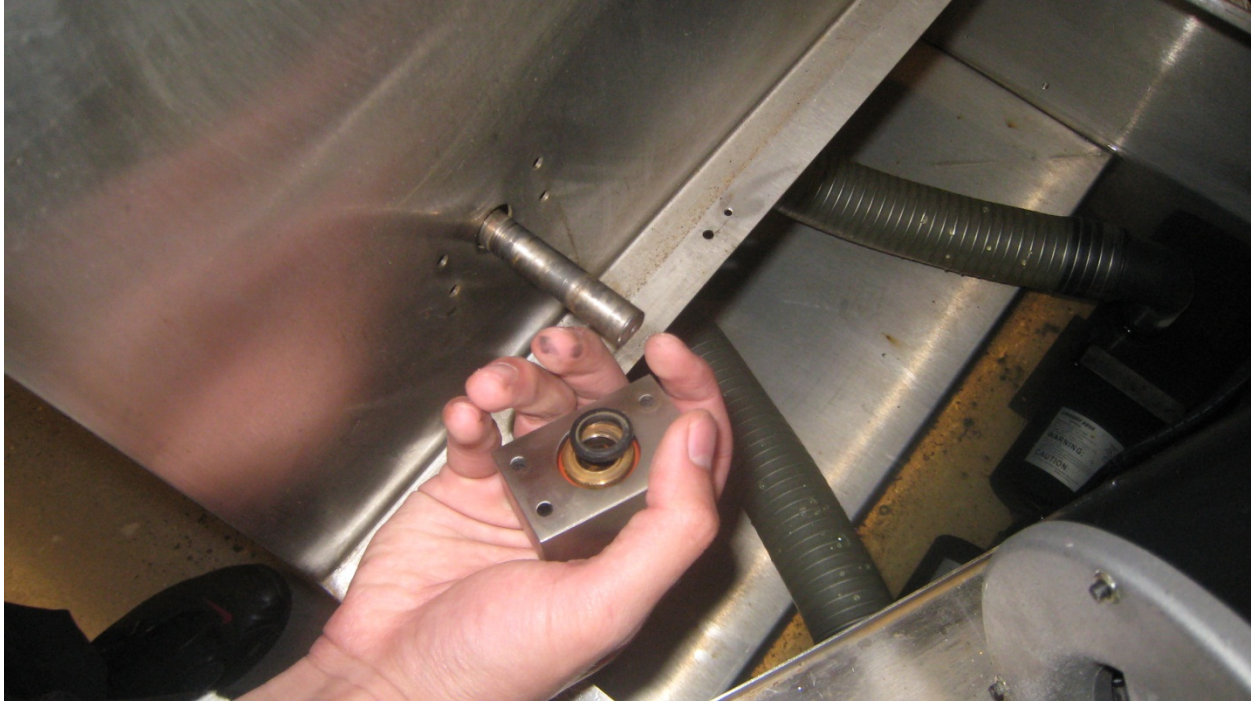
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6. There are 4 screws holding the block to the wall of the chilling bay that need to be removed. There are 4 acorn nuts on the other side of the chilling bay wall holding the block in place that need to be secured to remove the screws.

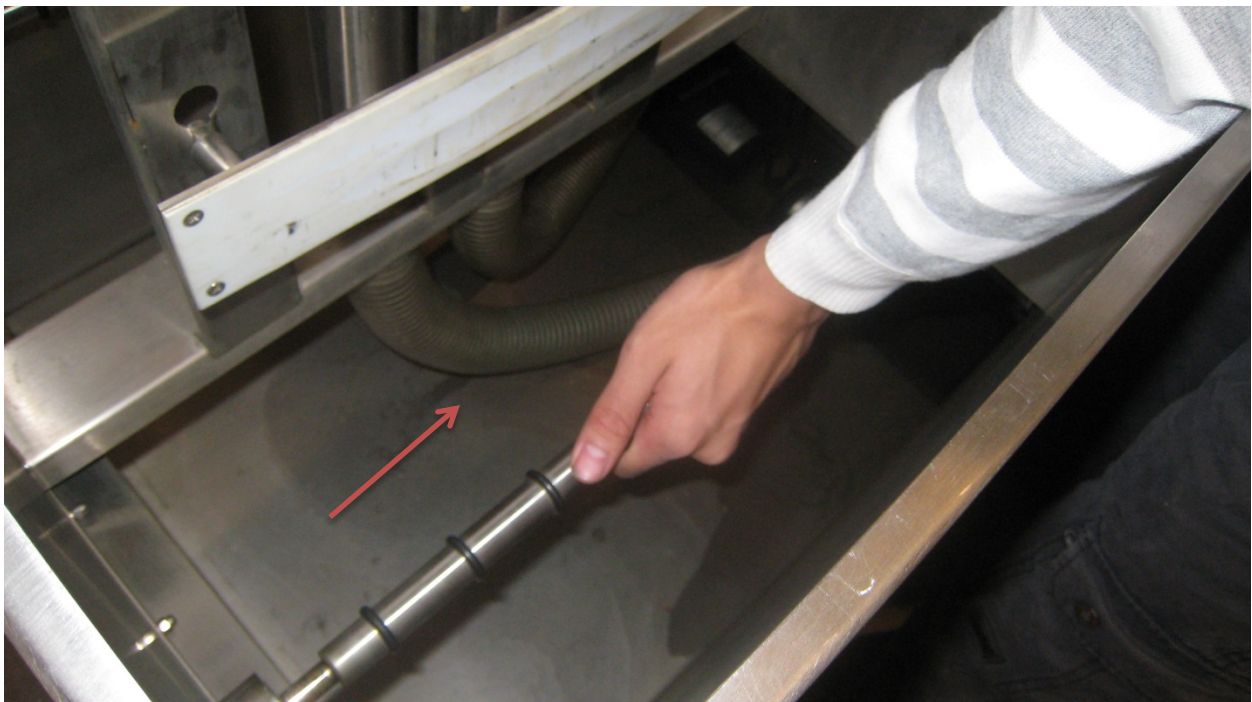


7. Pull the bearing mounting block off the roller shaft.

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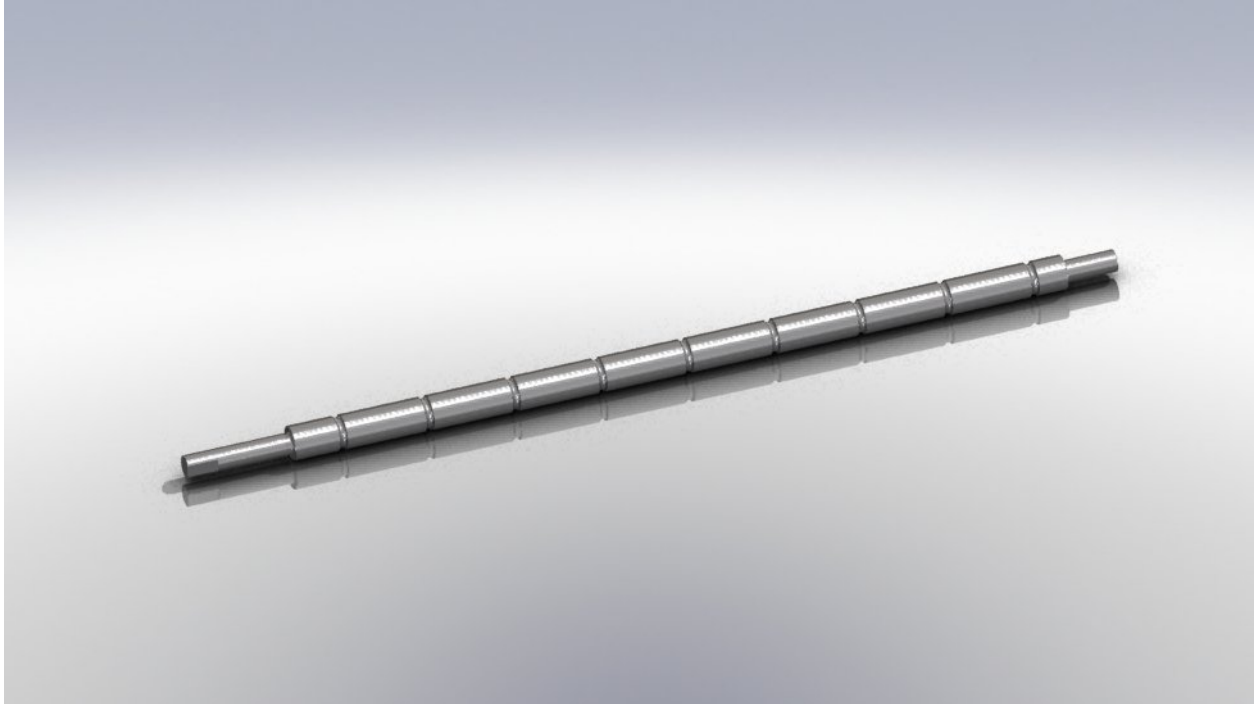


8. Remove the roller bar by pulling it back towards the motors until the other side is freed, then push the free side down at an angle and pull the other end of the roller through the hole.



9. Remove or clip-off the existing O-rings. It is highly recommended to change all O-rings at the same time.

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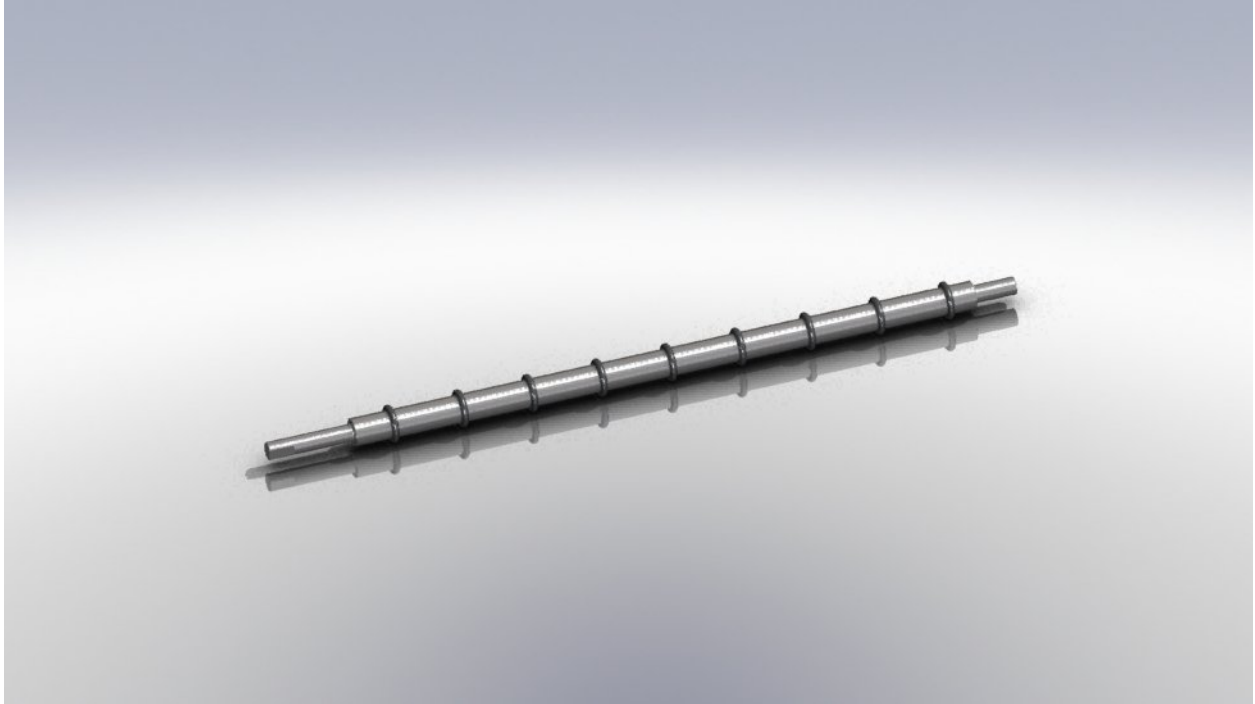


10. Replace the O-rings by sliding the O-rings one at a time over the roller from the ends to the center. It is essential to keep the O-rings from inverting during this process. It is highly recommended that the O-rings not be slid over other O-rings to prevent over-stretching them. Make sure the O-ring sits in the groove.



11. Image below shows completed O-ring replacement. Replace the roller bar into the unit. By reversing the method used to remove the bar.

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12. Remount the bearing block. Re-install the hub, by securing the set screw onto the flat section on the end of the roller. Remate the spider hubs and then secure the motor mounting plates. Remember to re-install the acorn nuts under the motor mounting plate. These are required to comply with NSF standards.
13. Repeat steps 4-12 for the other side of the unit if necessary.
14. Reinstall the pump access plate. Remember to re-install the acorn nuts under the pump access plate on the side nearest to the chilling bays.
15. Close the motor cover and re-install the hardware to secure the cover to the unit.
16. Reconnect the power cord and test the unit before placing back into active service.

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