SN0450/650 GEAR MOTOR ASSEMBLY REPLACEMENT

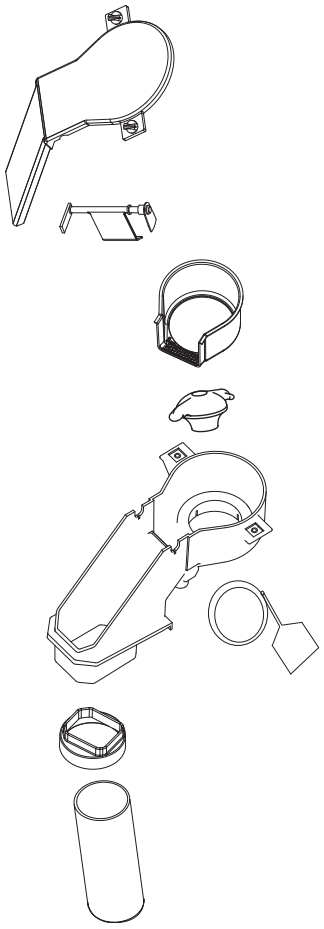
Installation Instructions

IMPORTANT
These materials will be needed on the job
- Phillips Screwdriver
- SAE Allen Wrench set with 90° bend
- 2.5 mm Allen Wrench
- 5/16" Nutdriver
- Gear Puller
- Torque Wrench (ft/lb preferred)
- 18" Solid Electrical Wire or Coat Hanger
- 2 x 2, 2 x 4, Broom Handle or Equivalent

1. Disconnect water supply.
2. Remove front panel.
3. Move toggle switch to CLEAN position after the five-minute delay expires the evaporator and float chamber will drain.

⚠ WARNING
Disconnect power to the ice machine at the electrical disconnect. Moving the toggle switch to OFF position will not disconnect line voltage.

4. Disconnect power and use proper lockout and tagout procedures to prevent injury.
5. Remove top and right side panels.
6. Remove ice chute assembly in order listed below.
   NOTE: The gearbox has a clutch that insures correct rotation If the ice wiper cannot be hand-removed, place the handle end of a screwdriver against the ice wiper and tap the screwdriver (counterclockwise) with a hammer to loosen the ice wiper from the auger.



1. REMOVE COVER

2. REMOVE ICE DAMPER

3. REMOVE STRAINER

4. REMOVE ICE WIPER

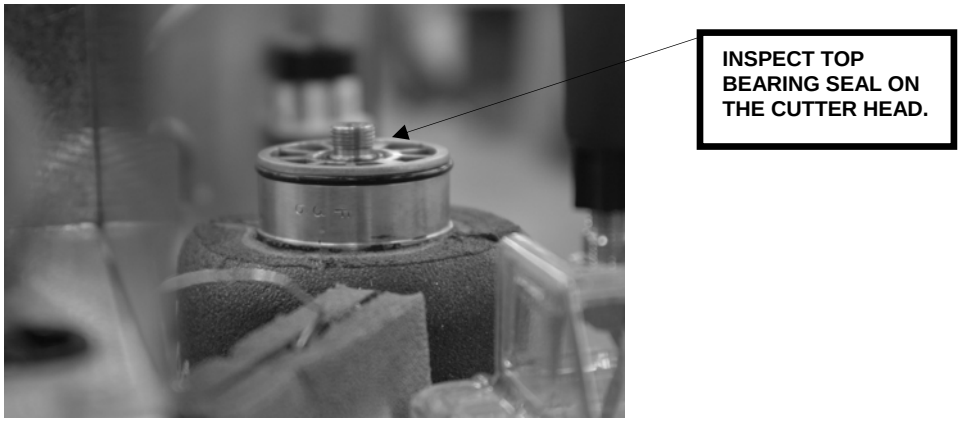
6. REMOVE ICE CHUTE

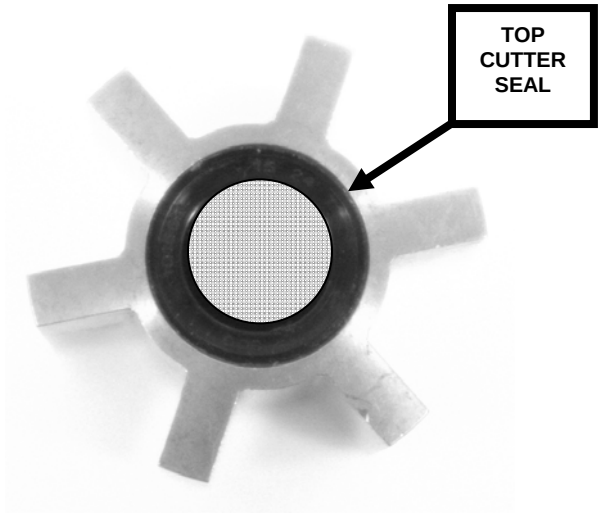
5. LOOSEN HOSE CLAMP AND DISCONNECT DRAIN LINE

7. REMOVE ICE CHUTE COLLAR

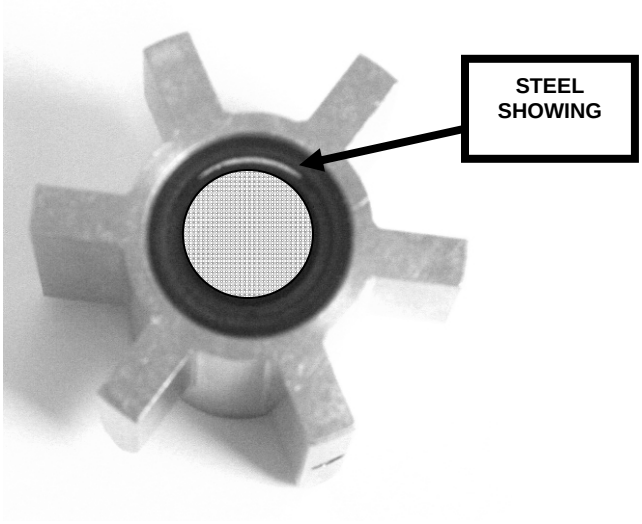
8. REMOVE ICE TUBE

7. Inspect top bearing seal for wear





Normal Seal Appearance



Worn Seal Appearance

8. After inspection check the appropriate box on the warranty claim. No further action is required.

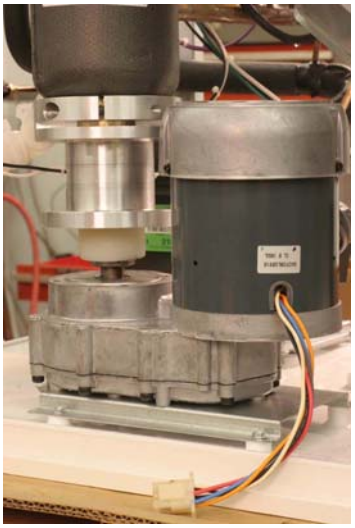
ICE MACHINE HAS ACCESS TO THE RIGHT SIDE. IF RIGHT SIDE CANNOT BE ACCESSED, PROCEED TO STEP 9 ON PAGE 3

9. Disconnect Molex connector to gear motor.
10. Remove bolts for evaporator foundation with 1/4” Allen wrench.

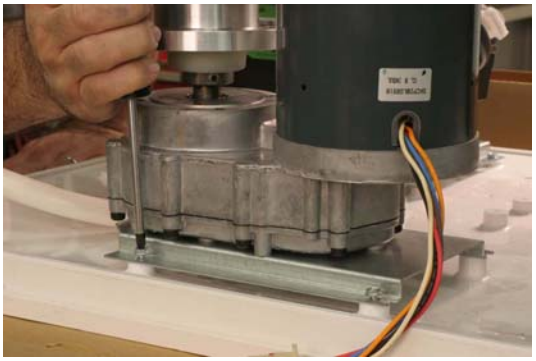


11. Secure evaporator to broom handle or other suitable object with wire and raise enough to clear spline hub.

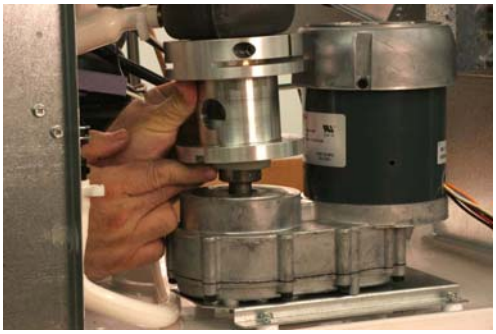


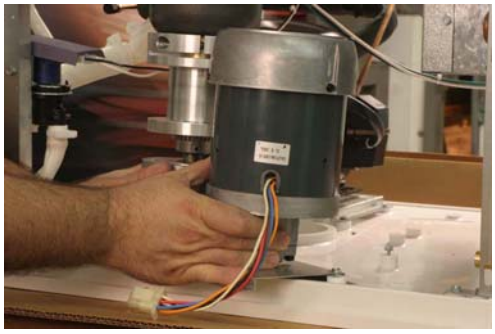


12. Remove two front screws and loosen two back screws.



13. Push up on coupler, slide gearbox out to side, and proceed to step 14 on page 5.



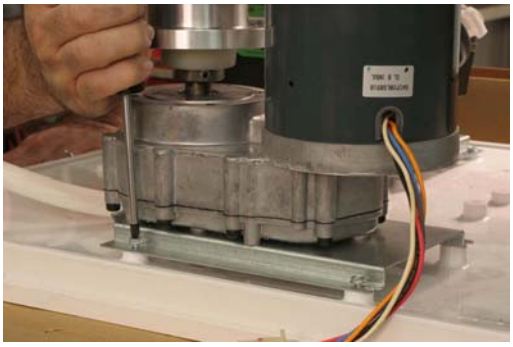


ICE MACHINE CANNOT BE ACCESSED FROM THE RIGHT SIDE AND MUST BE ACCESSED FROM THE FRONT

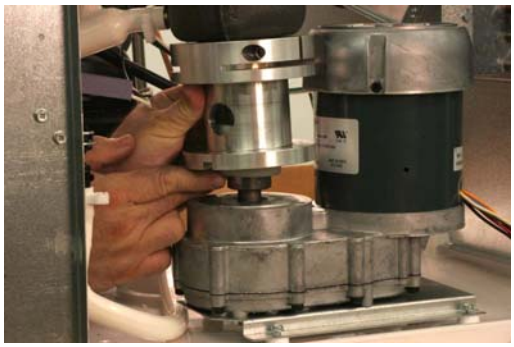
9. Remove vinyl drain tubing.



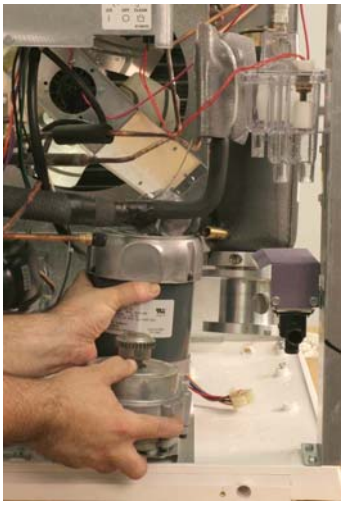
10. Remove wiring from dump valve.
11. Remove two front screws and loosen two back screws.



12. Push up on coupler and slide gearbox to left side of evaporator.



13. Remove gearbox out front of ice machine.



14. Loosen Allen set screw and use a puller to remove the spline hub from existing gearbox.



15. Remove the base from the old gearbox and install on new gearbox.
16. Reinstall spline hub:
    A. Place a 1/4" Allen wrench or 1/4" drill bit between the gear motor and spline hub.
    B. Press down on spline hub until it contacts the Allen wrench.
    C. Tighten set screw and remove Allen wrench or drill bit.
    D. Verify the evaporator spline hub is flush with the end of the shaft.



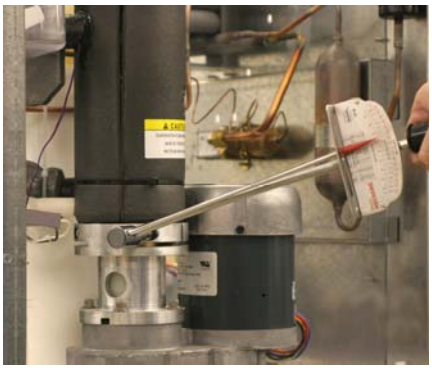
17. Position replacement gearbox in the ice machine and place coupler on gearbox spline gear. Temporarily install ice wiper, lower the evaporator onto the gearbox, and turn auger until the spline hub engages the coupler.
18. Reinstall base screws and foundation bolts. Tighten bolts in an alternating pattern (front, back, left, right) and torque foundation bolts until split washer flattens out.

19. Verify coupler moves up and down freely and is not bound and incapable of moving.

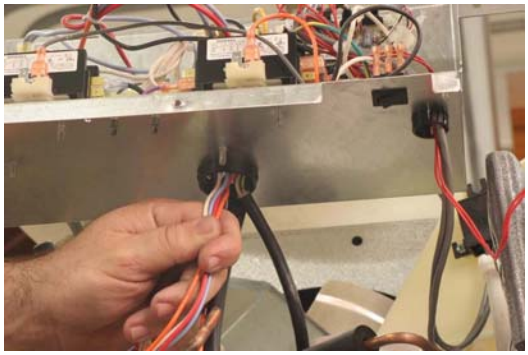


If you cannot slide the coupler up and down:

A. Loosen foundation mounting bolts (3/16" Allen wrench).
B. Move evaporator forward, backward, and side to side until the coupling moves freely.
C. Torque the foundation bolts evenly alternating left, right, left, right to apply even pressure. Torque the bolts to 200 in/lb (± 5 in/lb). Note: 200 in/lb = 17 ft/lb.



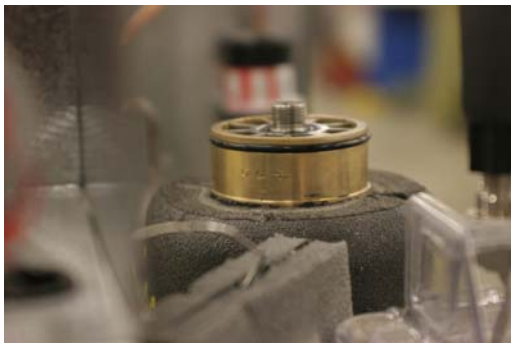
20. Connect new wiring harness to Molex connector on gear motor.
21. Follow routing of old harness and route new harness wiring through high voltage Heyco. Do not route through low voltage Heyco.



22. Disconnect old wiring harness from terminals.
    A. Cut two cable ties securing the old harness and remove.
    B. Use two supplied cable ties to secure new wiring harness.
23. Wire according to wiring diagram (two wires on contactor, two wires on run capacitor) - each wire is numbered.
24. Record evaporator serial number and ice machine model and serial number on warranty claim.

IMPORTANT

Evaporator serial number and ice machine model and serial number must be present on the labor claim to receive payment.





This Evaporator Serial Number is

F36

25. Replace old ice wiper with new ice wiper from kit and reinstall components removed in step 6.
26. Restore power and water and test run the ice machine for ten minutes.
27. While test running the ice machine, install the new wiring diagram on front panel.