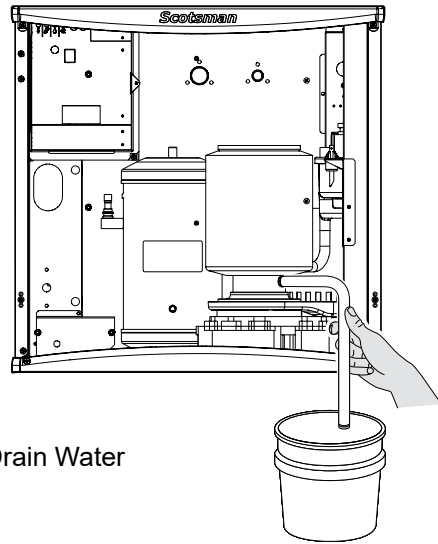


**Maintenance: Scale Removal and Sanitation**

Note: Following this procedure will reset the de-scale and sanitize light.

1. Remove front panel.
2. Push and release the Off button.
3. Remove ice from bin or dispenser.
4. Turn the water supply to the float valve OFF.
5. Drain the water and evaporator by disconnecting the leg of the hose connected to the water sensor and draining it into the bin. Return the hose to its original position.
6. Remove the water reservoir cover.
7. Mix a solution of 8 ounces of Scotsman Clear One Scale Remover and 3 quarts of 95-115 degree F. potable water.



Model:	Scotsman Clear One	Water
NS0422, NS0622, NS0922, NS1322, FS0522, FS0822, FS1222, FS1522	8 oz.	3 qts.
NH0422, NH0622, NH0922, NH1322	3 oz.	3 qts.

	<p><b>WARNING</b></p> <p>Ice machine scale remover contains acids. Acids can cause burns. If concentrated cleaner comes in contact with skin, flush with water. If swallowed, do NOT induce vomiting. Give large amounts of water or milk. Call Physician immediately. Keep out of the reach of children.</p>
--	---

8. Pour the scale remover solution into the reservoir. Use a small cup for pouring.
9. Push and release the Clean button: the auger drive motor and light are on, C is displayed and the De-scale light blinks. After 20 minutes the compressor will start.
10. Operate the machine and pour the scale remover into the reservoir until it is all gone. Keep the reservoir full. When all the scale remover solution has been used, turn the water supply back on. After 20 minutes of ice making the compressor and auger motor will shut off.

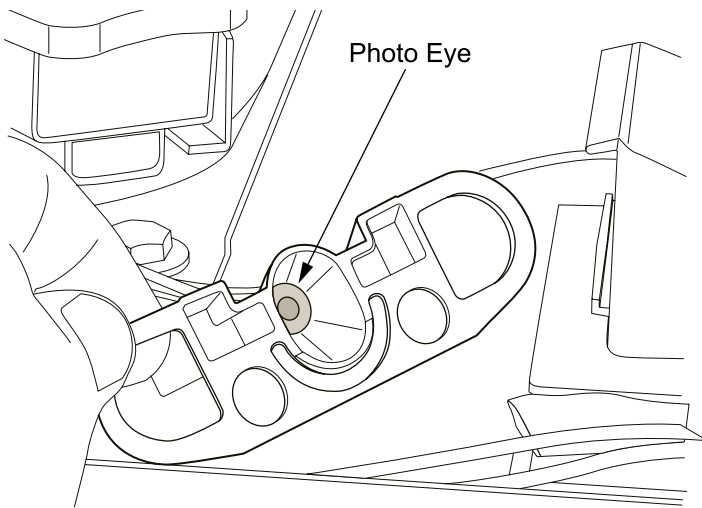
11. Turn the water supply to the ice machine OFF
12. Drain the water reservoir and evaporator by disconnecting the leg of the hose connected to the water sensor and draining it into the bin or a bucket. Return the hose to its original position. Discard or melt all ice made during the previous step.
13. Create a solution of sanitizer. Mix 4oz/118ml of NuCalgon IMS and 2.5gal/9.5L of (90°F/32°C to 110°F/43°C) potable water to create a 200 ppm solution.
14. Pour the sanitizing solution into the reservoir.
15. Push and release the On button.
16. Switch the water supply to the ice machine on.
17. Operate the machine for 20 minutes.
18. Push and release the Off button.
19. Wash the reservoir cover in the remaining sanitizing solution.
20. Return the reservoir cover to its normal position.
21. Melt or discard all ice made during the sanitizing process.
22. Wash the inside of the ice storage bin with the sanitizing solution.
23. Push and release the On button.
24. Return the front panel to its original position and secure with the original screws

## Maintenance: Sensors

### Photo Eyes

The control that senses bin full and empty is a photo-electric eye, therefore it must be kept clean so it can “see”. At least twice a year, remove the ice level sensors from the base of the ice chute, and wipe the inside clean, as illustrated.

1. Remove front panel.
2. Pull photo eye holders forward to release them.
3. Wipe clean as needed. Do not scratch the photo-eye portion.
4. Return the eye holders to their normal positions and return the front panel to its original position.



Note: Eye holders must be mounted properly. They snap into a centered position and are properly located when the wires are routed to the back and the left eye is the one with 2 wires at the connector.

### Check Gear Reducer Lubricant

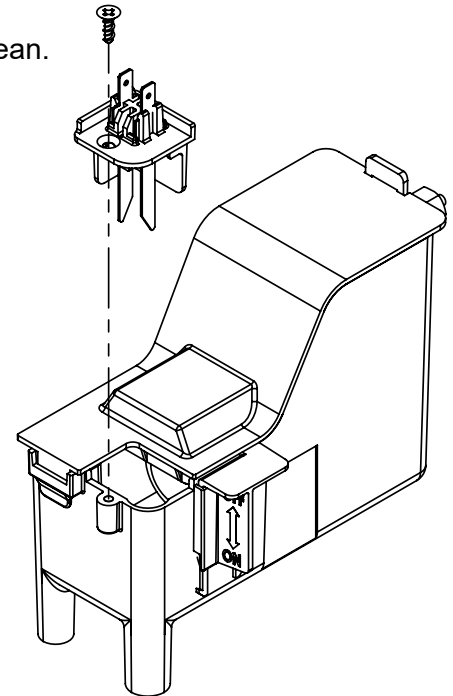
Although there is no normal access to the gear reducer lubricant, it can be checked without removal and complete disassembly.

Remove red vented plug from gearbox. Using a flathead screwdriver, check the oil level using the vent hole between the motor and the freezer. About 3/8" of oil should be on the tip of the screwdriver blade. Any more and there may be water in the gear case, any less and it may be low. The correct oil charge is 14 ounces. See picture to right.

### Water Level

The ice machine senses water by probe located in the water reservoir. At least twice a year, the probes should be wiped clean of mineral build-up.

1. Shut off the water supply.
2. Remove front panel.
3. Remove the Phillips head screw and remove the water level sensor from the reservoir.
4. Wipe probes clean.



Vent Hole

