

NORTH STAR ICE MAKER MAINTENANCE SCHEDULE

INTRODUCTION

Regular maintenance of North Star ice makers will ensure years of trouble free service. North Star has developed a recommended schedule for maintaining our ice makers which is outlined below, including a list of recommended lubricants.

DAILY:

1. Inspect the water circulation system, clean the water rings and check for plugged nozzles. Drain the water makeup tank and refill with fresh water.
2. Check sight glass on top center gearbox for proper oil level.
3. Check sight glass on the oil return line to ensure strainer is not obstructed on halocarbon systems.

MONTHLY:

1. Check for oil accumulation in evaporator on ammonia systems. De-oil if required.
2. Check for scale or rust on evaporator freezing surface.
3. Check for oil leaks on speed reducer.

EVERY 6 MONTHS:

1. Check oil level in speed reducer. Add oil if necessary, see list for recommendations.
2. Check top bearing play and gear backlash.
3. Check freezing surface for drum grooves.

ANNUALLY:

1. Change oil in speed reducer and top center gear housing.
2. Check ice removal tools for wear and proper clearance.
3. Check refrigeration control valve for proper operation.
4. Check motor drive belt for tension and wear.

EVERY FIVE YEARS:

1. Replace top and bottom rotor bearings and pinion gear bearings.
2. Check ring and pinion gear for wear and backlash.

Following are recommended lubricants for the top center gear housing and speed reducer on North Star ice makers.

Top Center Gear Housing

Lubricant Type:

Gear Oil

Manufacturer:

MOBIL-Mobilube HD 80W-90

Speed Reducer

Lubricant Type:

Worm Gear Reducer Oil

Manufacturer & Product:

Super Cylinder Oil 600W (ISO-460)

Equivalent lubricants are usually available from other manufacturers.

North Star's top and bottom rotor bearings are specifically designed for North Star ice makers. Failure to use genuine North Star bearings can cause the rotor to become off-center, forcing the ice removal tool into contact with the freezing surface, which can cause permanent damage to the ice maker.

Typically North Star bearings should last five (5) years.

North Star ice removal tools are engineered and manufactured to never come in contact with the freezing surface. They are machined with special angles which facilitate the removal of ice.

Do not sharpen, grind, machine or modify the ice removal tools as it will weaken the tool, resulting in premature tool failure during operation of the ice maker.

Typically North Star ice removal tools should last 8 - 10 years.

Flake
Ice Makers

Liquid Ice
Systems

Modular
Ice Rake
Systems

Ice Handling
& Delivery
Systems