



SECTION 4

CABLE REEL MAINTENANCE

OHIO MAGNETICS, INC.

MAINTENANCE INSTRUCTIONS

GLEASON CABLE REEL

The operation of the reel is automatic. The spring assembly within the reel applies the proper amount of tension to reel-up the entire amount of cable after it is pulled out by lowering the hoist to the full extent. There is an excess amount of cable on the reel so that it will not be completely de-reeled under normal operation.

Should the cable become frayed or damaged, it should be replaced or repaired. If the damage is near the magnet, cut off the bad section and splice on a new piece. If the cable is damaged half-way up the hoist, replace the entire cable.

Normally, cable will become worn near the magnet in which case the damaged piece can be removed and the magnet lead connector, 900B11A07, spliced back to the cable. Should the connector itself become damaged, it also should be replaced.

In general, there should be a minimum of two to three wraps of cable remaining on the reel when the cable is extended to where it touches the ground. Add sufficient new cable to the reel to meet this minimum requirement. When the upper half of the cable becomes worn or frayed, all the cable should be replaced. Measure new cable and install as follows:

I. Installation of Cable

Attach the inner end of the cable to the leads on the Reel and anchor the cable to the side of the spool with the cable clamp provided for this purpose. Wind the cable on the spool by turning the spool in the direction in which it turns free of spring tension. (A ratchet device permits the spool to turn free in one direction but winds the spring in the other direction).

II. Tension Adjustment:

Remove small cover from spring housing. Insert a spanner wrench and rotate spring hub two revolutions clockwise. This will adjust spring to correct tension. Pull off cable to make sure spring will not wind tight.

III. Grease and Lubrication:

Perform the following every three months:

1. Bearings:

Grease fittings are provided for the bearings, which should be lubricated with a light bearing grease every three months.

2. Gears:

The gears should be greased lightly every two to three months using a light bearing grease. If located in a dusty area, greasing should be kept to a minimum to prevent collecting of abrasive dust particles.

3. Springs:

To keep springs fully active, remove round head machine screw in spring housing and squirt 90 mL (3 oz) of Artic Light Oil into spring housing. Never use grease.