CABLE REMOVAL

Use the following procedure to remove worn or damaged cable from reel prior to installation of new cable.

1. Move machine serviced by reel to a position closest to reel. Spring will still be under pre-tension at this point.
2. Turn off all electric power.
3. Disconnect cable from machine or other fixtures. Wind cable onto spool to relieve spring tension.
4. Feed cable end out through cable guide (if so equipped) so cable pays off reel without bends.
5. Adjust spring tension using one of the following methods:
   A. If outer end of cable has not been connected, hold cable end next to spool and rotate spool in clockwise direction (when viewed from slip ring side) until desired tension is achieved. Refer to Page 1, Figure 1.
   B. If outer end of cable has been connected, remove the four spring housing screws and rotate the entire spring housing clockwise.

DECREASE TENSION:

1. Remove as much spring tension as possible by retracting cable to cable stop or by moving machinery to position that cable will rewind completely at all times.
2. Move machine serviced by reel to a position closest to reel. Spring will still be under pre-tension at this point.
3. Wind cable onto reel to relieve spring tension.
4. Adjust spring tension. Refer to INSTALLATION, Step 5.
5. Slide new spring assembly onto shaft and reassemble reel by reversing above steps.
6. Feed cable end out through cable guide (if so equipped) and pay-out cable to maximum working length. At least one turn of cable should remain on spool. If spool locks up prior to reaching required length, either reel was over-tensioned during step 5 or reel capacity has been exceeded. Failure to correct this condition will result in shortened spring life and possible damage to other reel components.
7. Attach and adjust cable stop. Complete cable working end connections.

NOTE: These Instructions are written for machine pull reels. If installing or servicing hand pull reel, use only those steps marked with hand icon.

INSTALLATION and MAINTENANCE INSTRUCTIONS

SPRING OPERATED ELECTRIC CABLE REELS

1. If reel is supplying power to a machine, insure that machinery is at position closest to reel.

CAUTION

If mounting overhead, provide safety chain between reel base and mounting surface to prevent accidental reel drop.

2. Securely mount reel in desired position using 3/8” (M10) bolts. If reel is not equipped with a pivoting mounting base, be sure spool centerline is aligned with cable run.


4. Install cable not included with reel. Refer to CABLE INSTALLATION section on back page.

CAUTION

Securely mount reel in desired position using 3/8” (M10) bolts. If reel is not equipped with a pivoting mounting base, be sure spool centerline is aligned with cable run.

Pivoting Mounting Base

Adjust Sprung Tension by Holding Cable End Against Spool and Rotating Spool. Do Not Over-Tension Spring.

1. Engage ratchet lock to prevent spool from rotating.
2. Feed cable end out through cable guide (if so equipped) and pay-out cable to maximum working length. At least one turn of cable should remain on spool. If spool locks up prior to reaching required length, either reel was over-tensioned during step 5 or reel capacity has been exceeded. Failure to correct this condition will result in shortened spring life and possible damage to other reel components.
3. Attach and adjust cable stop. Complete cable working end connections.

CAUTION

If reel is equipped with ratchet lock, reel is shipped with ratchet lock “engaged.” If constant spring tension is required, lock may be disengaged by moving the selector lever, located beneath the spring assembly, to “OFF.”

INSTALLATION

Periodically oil the bronze flange-bushing located on the slip ring side of the reel.

WARNING

Do not attempt to remove spring from its housing. Clock-type springs can be dangerous to handle. Removal of spring from housing could result in personal injury.

SLIP RING REPLACEMENT

1. Turn off all electric power.
2. Disconnect cable from working end connections.
3. Wind cable onto reel to relieve all spring tension.
4. Remove four screws holding spring assembly and gently slide spring assembly off main shaft.
5. Slide new spring assembly onto shaft and reassemble reel by reversing above steps.
6. Adjust spring tension. Refer to INSTALLATION, Step 5.

SPRING REPLACEMENT

1. Adjust spring tension using one of the following methods:
   A. If outer end of cable has not been connected, hold cable end next to spool and rotate spool in clockwise direction (when viewed from slip ring side) until desired tension is achieved. Refer to Figure 1.
   B. If outer end of cable has been connected, remove the four spring housing screws and rotate the entire spring housing clockwise (when viewed from spring side).

CAUTION

If outer end of cable has not been connected, hold cable end next to spool and rotate spool in clockwise direction (when viewed from slip ring side) until desired tension is achieved. Refer to Page 1, Figure 1.

1. Remove as much spring tension as possible by retracting cable to cable stop or by moving machinery to position that cable will rewind completely at all times.
2. Move machine serviced by reel to a position closest to reel. Spring will still be under pre-tension at this point.
3. Wind cable onto reel by hand rotating spool in counter-clockwise direction (when viewed from slip ring side).

SLIP RING REPLACEMENT

1. Turn off all electric power. Disconnect input wiring.
2. Engage ratchet lock to prevent spool from rotating.
3. Remove reel from mounting base.
4. Remove screws holding slip ring side frame half and remove frame half.
5. Disconnect cable leads from slip ring terminals.
7. Install new slip ring assembly on shaft and re-assemble reel by reversing above steps.
### Illustrated Parts List

**Locking and Hoist Duty Electric Cable Reels**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>KIT NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
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<tr>
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<td>Spring Motor</td>
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<td>Frame, Spring End—Includes Decals</td>
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<td>4</td>
<td>028123</td>
<td>Dog Kit (for models with ratchet lock)</td>
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<td>Shaft—Includes snap rings, thrust washer</td>
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<td>6</td>
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**Watertight Electric Cable Reels**

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<td>Brush Holder, 8 Pole—Includes Brushes</td>
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</table>

Always specify SERIAL NUMBER & MODEL NUMBER when ordering parts.

---

**ILLUSTRATED PARTS LIST**

LOCKING AND HOIST DUTY ELECTRIC CABLE REELS

![Diagram of Locking and Hoist Duty Electric Cable Reels]

**ILLUSTRATED PARTS LIST**

WATERTIGHT ELECTRIC CABLE REELS

![Diagram of Watertight Electric Cable Reels]
### Illustrated Parts List

**Locking and Hoist Duty Electric Cable Reels**

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Always specify SERIAL NUMBER & MODEL NUMBER when ordering parts.

**Watertight Electric Cable Reels**

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Always specify SERIAL NUMBER & MODEL NUMBER when ordering parts.
CABLE REMOVAL
Use the following procedure to remove worn or damaged cable from reel prior to installation of new cable.

1. Turn off all electric power.
2. Disconnect cable from machine or other fixtures.
3. Turn off all electric power.
4. Remove four screws holding spring assembly and gently slide assembly off main shaft.
5. Locking and hoist duty reels only, remove slip ring cover.
6. Unwind cable from spool. Remove cable clamp.
7. Disconnect leads:
   - On locking and hoist duty reels, disconnect leads from junction block on spool.
   - On watertight reels, pull cable out of hole in spool, exposing slip ring leads. Disconnect.
8. Install new cable following directions below.

CABLE INSTALLATION
Use the following procedure to replace cable or if reel was ordered without cable. Refer to CABLE INSTALLATION REFERENCE DRAWING, below.

1. Unspool new cable from shipping spool and lay out to eliminate twists.
2. Securely mount reel in desired position using 3/8” (M10) bolts. If reel is not equipped with a pivoting mounting base, be sure spool centerline is aligned with cable run.
3. If outer cable has been connected, remove the four spring housing screws and rotate the entire spring housing clockwise.
4. Complete cable installation using steps 5 thru 10 under INSTALLATION on page one.

SPRING ADJUSTMENT
INCREASE TENSION:
A. If outer end of cable has not been connected, hold cable end next to spool and rotate in clockwise direction (when viewed from slip ring side) until desired tension is achieved. Refer to Figure 1.
B. If outer cable has been connected, remove the four spring housing screws and rotate the entire spring housing clockwise.

DECREASE TENSION:
1. Remove as much spring tension as possible by retracting cable to cable stop or by moving machinery to position closest to reel.
2. Remove four spring housing screws and rotate entire spring housing counterclockwise (when viewed from spring side).

SPRING REPLACEMENT

CAUTION
If mounting overhead, provide safety chain between reel base and mounting surface to prevent accidental reel drop.

NOTE: This step is not essential, but will aid in winding operation of the reel and prolong cable life.

1. If reel is supplying power to a machine, ensure that cable will rewind completely at all times.
2. Securely mount reel in desired position using 3/8” (M10) bolts. If reel is not equipped with a pivoting mounting base, be sure spool centerline is aligned with cable run.
3. Remove reel from mounting base.
4. Adjust spring tension using one of the following methods:
   - A. If outer end of cable has not been connected, hold cable end next to spool and rotate in clockwise direction (when viewed from slip ring side) until desired tension is achieved. Refer to Figure 1.
   - B. If outer end of cable has been connected, remove the four spring housing screws and rotate the entire spring housing clockwise (when viewed from spring side).

DO NOT
- Remove extreme spring tension.
- Install new cable following directions below.

SPRING REPLACEMENT

CAUTION

1. Turn off all electric power.
2. Disconnect cable from working end connections.
3. Wind cable onto reel to relieve all spring tension.
4. Remove four screws holding spring assembly and gently slide spring assembly off main shaft.
5. Slide new spring assembly onto reel and reassume reel by reversing above steps.
6. Adjust spring tension. Refer to INSTALLATION, Step 5.
7. Attach and adjust cable stop. Complete cable working end connections.

CAUTION
Feed cable end out through cable guide (if so equipped) and pay-out cable to maximum working length. At least one turn of cable should remain on spool. If spool locks up prior to reaching required length, either reel was over-tensioned during step 5 or reel capacity has been exceeded. Failure to correct this condition will result in shortened spring life and possible damage to other reel components.

CAUTION

1. If reel is supplying power to a machine, insure that machinery is at position closest to reel.
2. Securely mount reel in desired position using 3/8” (M10) bolts. If reel is not equipped with a pivoting mounting base, be sure spool centerline is aligned with cable run.
3. Disconnect cable leads from slip ring terminals.
4. Remove screws holding slip ring side frame half and rotate spool in counter-clockwise direction (when viewed from slip ring side).
5. Slide spring assembly onto shaft and secure with four screws.
6. Replace slip ring cover, if removed.
7. Complete cable installation using steps 5 thru 10 under INSTALLATION on page one.

CAUTION

1. If reel is supplying power to a machine, insure that machinery is at position closest to reel.
2. Securely mount reel in desired position using 3/8” (M10) bolts. If reel is not equipped with a pivoting mounting base, be sure spool centerline is aligned with cable run.
3. Disconnect cable from machine or other fixtures.
4. Turn off all electric power.
5. Disconnect cable leads from slip ring terminals.
6. Align cable could damage spring or cable.
7. Feed cable end out through cable guide (if so equipped) and pay-out cable to maximum working length. At least one turn of cable should remain on spool. If spool locks up prior to reaching required length, either reel was over-tensioned during step 5 or reel capacity has been exceeded. Failure to correct this condition will result in shortened spring life and possible damage to other reel components.
8. If machine pull application or if no-lock operation is desired, disengage ratchet lock. See following section.
9. Remove slip ring cover and connect individual supply conductors to terminal block. Replace cover.
10. Turn on power to reel.

RATCHET LOCK
If reel is equipped with ratchet lock, reel is shipped with ratchet lock “engaged”. If constant spring tension is required, lock may be disengaged by moving the selector lever, located beneath the spring assembly, to “OFF”.

MAINTENANCE
Periodically oil the bronze flange-bushing located on the slip ring side of the reel.

The self-aligning bushing located on the spring side of the reel is made of a self-lubricating, wear-resistant material that needs no further lubrication.

Periodically inspect brushes on the slip ring assembly. Replace if badly worn. Remove the slip ring side frame half to gain access to brushes.

INSTALLATION and MAINTENANCE INSTRUCTIONS

SPRING OPERATED ELECTRIC CABLE REELS

NOTE: These Instructions are written for machine pull reels. If installing or servicing hand pull reel, use only those steps marked with hand (h).

1. Turn off all electric power. Disconnect input wiring.
2. Engage ratchet lock to prevent spool from rotating.
3. Remove reel from mounting base.
4. Remove screws holding slip ring side frame half and remove frame half.
5. Disconnect cable leads from slip ring terminals.
7. Install new slip ring assembly on shaft and re-assemble reel by reversing above steps.

P.O. Box 26 • 600 South Clark St.
Mayville, WI 53050
Phone 920–387–5195
Continued on back page