INSTALLATION and MAINTENANCE INSTRUCTIONS
SERIES 'A' INDUSTRIAL CABLE REELS

NOTE: This reel is intended for use primarily in hand-pull applications. If mounted overhead, mounting height should not exceed 16'.

INSTALLATION

1. Securely mount reel in desired position using 5/16" bolts. Be sure spool centerline is aligned with cord run.

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

2. Determine cord guide position. Guide must be oriented so cord pays off reel in a straight line without bends (Fig. 1). If guide position must be changed, remove spring motor clamp (#10 on parts list, pg 2 & 3) at top of vertical frame and loosen the other two clamps holding the roller guide arm from rotating. Rotate arm to desired position and retighten and replace all hardware.

3. Hard-wire input cord to feed line inside approved junction box.
4. Adjust cord stop.

SPRING ADJUSTMENT

Adjust tension by adding wraps (increasing tension) or removing wraps (decreasing tension) from the spool.

1. Pull about 10' of cord, allowing spool to rotate.

INCREASE TENSION: Without allowing spool to rotate, hand feed cord through hose guide until loop is large enough to slip onto spool. Add two or three wraps until desired tension is achieved. See Figure 2.

DECREASE TENSION: Without allowing spool to rotate, hand feed cord back through guide to provide slack. Remove one or two wraps from spool. See Figure 3.

2. Test reel operation.

SPRING REPLACEMENT

If it should be necessary to replace the power spring, work should be performed only by factory authorized service personnel. Failure to do so could result in personal injury and/or equipment damage.

3. Test reel operation.

MAINTENANCE

Bearings and springs are prelubricated and require no periodic maintenance.

BRUSH HOLDER or BRUSH REPLACEMENT

Refer to ILLUSTRATED PARTS LIST and ELECTRICAL CONNECTION diagram inside this folder.

1. Turn off all electric power.
2. Remove slip ring cover.
3. Disconnect brush leads from terminal block.
4. Remove nuts holding brush holder to reel. Remove brush holder.
5. Install new brush holder by reversing above steps.
6. Make sure brushes are correctly aligned with slip rings. Adjust brush-to-ring alignment by loosening nuts securing brush holder to reel and repositioning brush holder.

SLIP RING REPLACEMENT

Refer to ILLUSTRATED PARTS LIST and ELECTRICAL CONNECTION diagram inside this folder.

1. Turn off all electric power.
2. Remove slip ring cover.
3. Disconnect input wiring conductors from slip ring lead wires.
4. Disconnect brush leads from terminal block.
5. Remove nuts holding brush holder to reel and remove brush holder.
6. Remove slip ring clamping nut.
7. Slide slip ring assembly off shaft.
8. Install new slip ring assembly on shaft and re-assemble reel by reversing above steps.
9. Make sure brushes are correctly aligned with slip rings. Adjust brush-to-ring alignment by loosening nuts securing brush holder to reel and repositioning brush holder.

CONTINUED ON BACK PAGE
### INDUSTRIAL CABLE REEL REPLACEMENT PARTS LIST

<table>
<thead>
<tr>
<th>ITEM No.</th>
<th>PART No.</th>
<th>DESCRIPTION</th>
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<td>Main Shaft Holding Nut</td>
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### ELECTRICAL CONNECTIONS

**OUTPUT WIRING FROM TERMINAL BLOCK**

- **GROUNDING WIRE ASSEMBLY**
- **GROUND LUG**
- **GREEN**
- **WHITE**
- **BLACK**
- **INPUT CORD CONDUCTORS**
- **SLIP RING LEAD WIRES**
- **WIRE NUT**
- **BRUSHES**
- **BRUSH HOLDER**
- **INPUT POWER CORD**

**SLIP-RINGS**

- **SLIP RING AMPACITY RATED AT 20 AMP MAX PER RING.**
- **DO NOT EXCEED AMPERAGE RATING OF CORD CONDUCTORS.**
- **NUMBER OF CIRCUITS MAY BE THREE OR FOUR.**
- **THREE CIRCUITS SHOWN.**

**NOTE:**

Wire size, wire connectors, connection sequence, and connection methods must comply with National Electrical code and Local Electrical ordinances. If in doubt, contact a local electrical contractor or electrical inspector.

**COLOR SEQUENCE FOR TYPE SO CORD**

- **THREE CONDUCTOR CORD**
  - # 1 – WHITE
  - # 2 – GREEN (ground)
  - # 3 – BLACK

- **FOUR CONDUCTOR CORD**
  - # 1 – RED
  - # 2 – WHITE
  - # 3 – GREEN (ground)
  - # 4 – BLACK
ILLUSTRATED PARTS LIST
SERIES A INDUSTRIAL CABLE REEL
Always specify SERIAL NUMBER & MODEL NUMBER when ordering parts.
Use the following procedure to replace cord or if reel was ordered without cord. Refer to ELECTRICAL CONNECTIONS, preceding page.

1. Turn off all electric power.
2. Disconnect cord from end fixture. Remove cord stop and allow cord to retract onto spool. Ensure all tension is off spring by manually rotating spool.
3. Remove cord from spool by looping over spool flange and slip ring cover.
4. Remove slip ring cover.
5. Disconnect cord leads from terminal block.
6. Loosen locking tab on cord grip inside spool and pull cord out.
7. Install new cord following directions in next column.

OUTPUT CORD INSTALLATION
Use the following procedure to replace cord or if reel was ordered without cord. Refer to ELECTRICAL CONNECTIONS, preceding page.

1. Unspool new cord from shipping spool and lay out to eliminate twist.
2. Remove slip ring cover.
3. Slide cord grip gland and cap onto cord. Feed end of cord through cord grip body and tighten cap until cord is thoroughly secure.
4. Feed end of cord through cord grip body and tighten cap until cord is adequately secured.
5. Strip cord as required and connect individual conductors to appropriate terminal on terminal block.
6. Secure cord inside the slip-ring area with the bar clamp supplied with the reel.
7. Replace slip-ring cover.
8. Wind the cord onto the reel spool by hand rotating spool in direction it turns free of spring tension. (Normally counter-clockwise when viewed from slip ring side).
9. Install end fixture. Install and adjust cord stop.
10. Adjust spring tension as described at SPRING ADJUSTMENT, front page.

CAUTION
Failure to relieve all spring tension prior to removing cord could result in damage to equipment or personal injury. Follow instructions carefully.

WARNING
Do not attempt to remove cord by pulling out through cord guide. Doing so will put excess tension on power spring and could result in personal injury or equipment damage.

OUTPUT CORD REMOVAL
Use the following procedure to remove worn or damaged cord from reel prior to installation of new cord.

1. Turn off all electric power.
2. Disconnect cord from end fixture. Remove cord stop and allow cord to retract onto spool. Ensure all tension is off spring by manually rotating spool.
3. Remove cord from spool by looping over spool flange and slip ring cover.
4. Remove slip ring cover.
5. Disconnect cord leads from terminal block.
6. Loosen locking tab on cord grip inside spool and pull cord out.
7. Install new cord following directions in next column.

DISENGAGE RATCHET LOCK
Use the following procedure to disengage ratchet lock.

1. Remove spring mounting bracket.
2. Using a 10mm allen wrench, place wrench through hole in spool disc, loosen and remove the shoulder bolt and locking dog assembly.