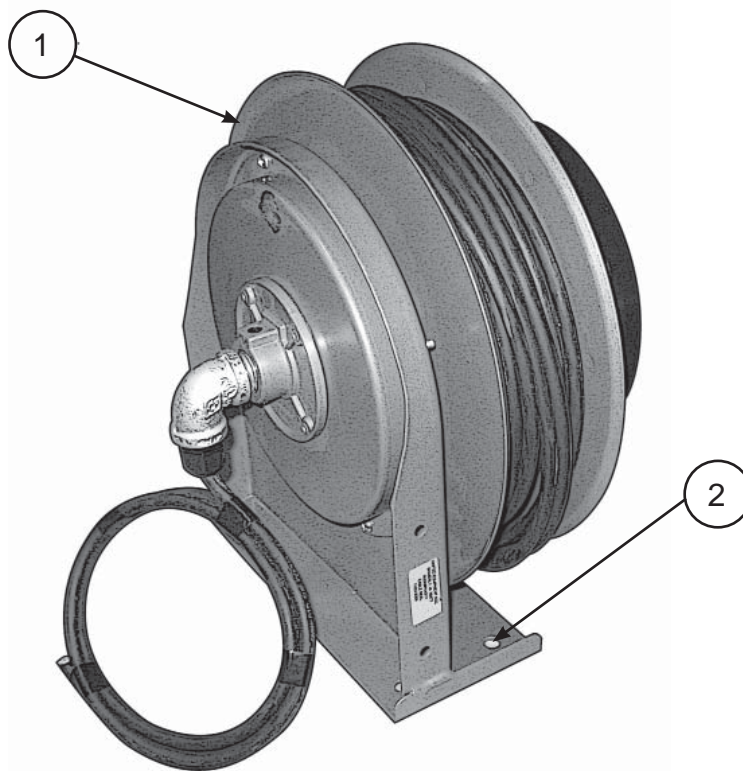


Cable Reel Installation Instructions

Mounting

1. Unpack and inspect reel (1) for damage. Turn by hand to check for smooth operation. Check for completeness.
2. Position reel and secure into place using the mounting hardware provided in the installation kit (2).



Adjustments

Spring Tension

If necessary, adjust the spring tension on the reel by adding or removing wraps of electrical cord from the spool, one wrap at a time, until the desired tension is obtained. Add wraps to increase tension.

When adding wraps of electrical cord, be careful to not exceed the winding mechanism's spring capacity. Add just enough wraps of cord to achieve the desired tension. Damage to the winding mechanism will result if the spring is over-tensioned. Always be aware of the spring tension on the reel. Exercise extreme caution.

Cable Attachment Instructions

Center or Stationary Lead Attachment

1. Remove the liquid-tight connector adapter from the assembly by loosening the locknut and the set screw retaining the adapter to the center shaft.
2. Slide approximately 12" of cable through the connector and adapter and then strip approximately 1.25" of insulation from the cable.
3. Use electrical tape to cover the exposed section of cable, starting from beyond the insulation and covering the end leaving a short "pigtail" of tape at the end of the cable.
4. Slide the taped cable end through the center shaft and into the mounting lug on the bus bar at the top of the slip ring core.
5. Carefully pull the tape loose from the cable and tighten the screw in the lug to retain the stripped portion of the cable in the lug. NOTE: Verify that the insulated portion of the cable only butts up to the lug and does not extend into the lug before the lug screw is completely tightened.
6. Slide the connector and adapter along the cable to the original position on the center shaft. Attach using the set screw secured with the lock nut.
7. Tighten the liquid-tight connector around the cable.

Extension Lead Attachment

1. Remove the cover and liquid-tight connector in the base casting.
2. Slide one end of the extension cable under the U-bolt clamps on the reel, through the hole into the center of the reel, and up into the slip ring and through the hole in the base casting.
3. Slide the liquid-tight connector over the end of the cable and screw into the tapped hole in the base casting from which it was earlier removed.
4. Tighten the liquid-tight connector around the cable with approximately 1.25" - 1.50" of cable projecting beyond the connector.
5. Strip the insulation from the projecting cable making sure it is even with the top of the connector.
6. Using the #10-32 screws and nuts provided, sandwich the exposed cable between the two brush terminals as close as possible to the connector, and tighten securely.
7. Tighten U-bolt clamps to provide stress relief to cable extending into the slip ring housing.
8. Replace cover and secure with weatherproof washers and nuts.

Tensioning Instructions (Pretensioning)

Non - Latching Cable Reel

1. Pull a minimum of 10 ft. of cable out from reel and hold reel to prevent retraction.
2. Carefully pull enough cable back to add one full wrap of cable to the existing wraps.
3. After adding one wrap of cable to the reel allow the cable to retract.
4. Verify that the tension on the cable is now adequate for desired retraction.
5. If adequate tension is not yet achieved, repeat from Step 1, adding one wrap at a time and checking until tension is considered sufficient.

NOTE: After sufficient tension is achieved the cable must be fully extended to determine that the cable can be fully extended without locking up the spring. If the cable cannot be fully extended, wraps will have to be removed from the reel. If a reasonable compromise between pretension and full extension cannot be achieved, the factory should be contacted for the possibility of a different spring being used.

Slip Ring Maintenance

If not revolved for some time, in some conditions, the slip ring may collect fine silt. In addition, a salt atmosphere can cause corrosion. If corrosion occurs, the equipment should be rotated through several revolutions. The action of the brushes should clean the ring surfaces. If this is unsuccessful or it is not possible to revolve the machine, it may be necessary to use a standard contact cleaner to clean the ring.

NOTE: Any contact cleaner used should be listed as non-harmful to plastics. Lightly sand the brushes and rings with a fine grade sandpaper and dust off with compressed air.

To replace a brush arm assembly, remove the hex nuts and washers at the top of the brush stud along with the outboard bearing, (if present). This will allow the brush assemblies to be removed.

NOTE: Some smaller rings use capscrews, or may be equipped with socket screw type set collars instead of hex nuts. Carefully remove the brushes without over-stretching the brush springs and arrange them in order of removal with the spacers in reverse removal order. This will ensure the correct spacing between the electrically live parts. This is critical on voltages of 110 VAC or over. Be sure that all brushes are snapped in tightly and make full contact with their corresponding brass ring. Also check that all springs are hooked correctly through the brush arm.

NOTE: Special care should be exercised when handling or replacing the 7.5 Amp brush and arm assemblies. Because of their small size, they can be broken if forced up or down. In the correctly installed position, the possibility of breakage is minimal.