



# Technical Bulletin

## Cable Reel and 6-N-1 Cable-Hose Reel Shaft and Hub Service Kit 679062

Shaft and Hub Service Kit 679062 converts the reel to the new shaft/hub design which has the seals in the hub. The new configuration provides improved seal life.

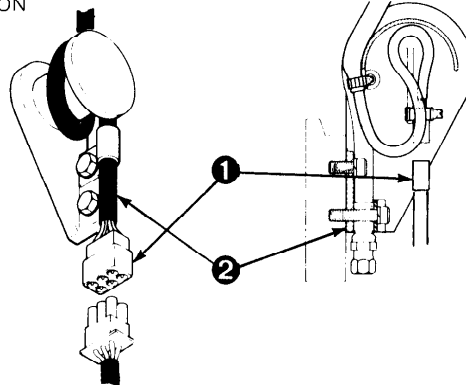
### DISCONNECTING THE REEL

1. Disconnect the electric connectors at the junction block.
2. Remove the cable-hose or cable from the junction block.

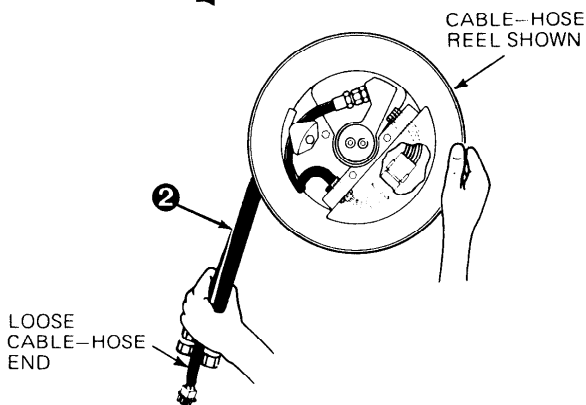


**WARNING:** Hold hoses firmly while disconnecting the cable-hose from the junction block. Allow the reel spring to unwind slowly while maintaining tension on the loose cable-hose end.

CABLE REEL JUNCTION BLOCK



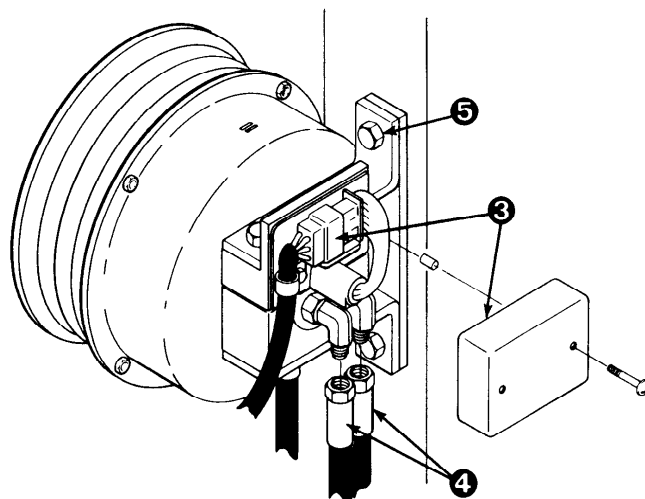
HOSE-CABLE REEL JUNCTION BLOCK



CABLE-HOSE REEL SHOWN

LOOSE CABLE-HOSE END

3. Remove the fixed cover from the mounting block and disconnect the cable connector.
4. **CABLE-HOSE REELS** – Disconnect the truck valve hoses from the reel shaft.
5. Remove the capscrews and lockwashers fastening the reel mounting bracket to the mounting pad. Remove the reel from the mast.



Part No. 680107

# cascade®

For Technical Assistance . . .

Call/ 1-800-CASCADE or 503-669-6300

OR

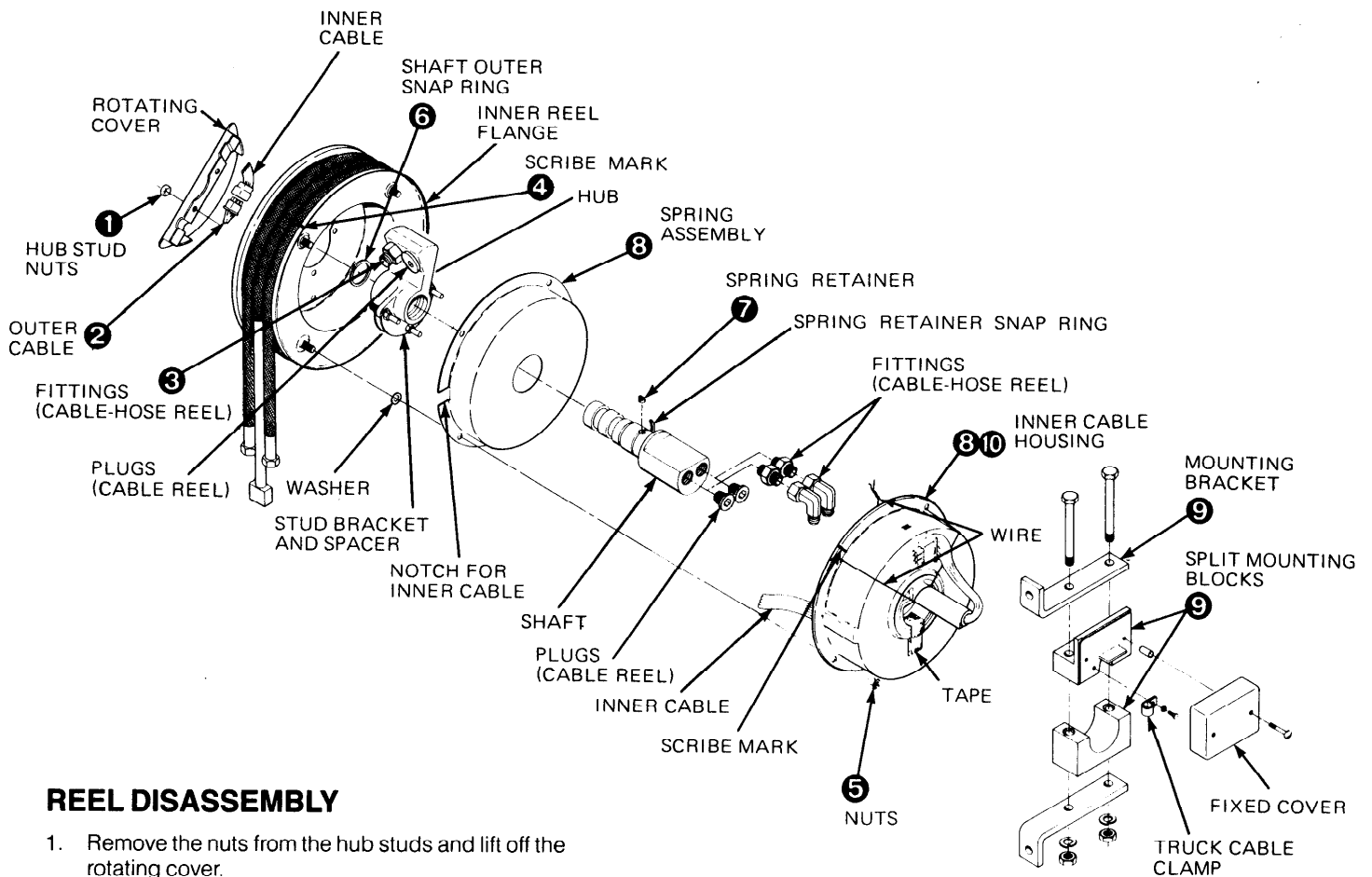
Write: Cascade Corporation, P.O. Box 20187, Portland, OR 97220

To Order Parts . . .

Call: 513-322-1199

OR

Write: Cascade Corporation, P.O. Box 360, Springfield, OH 45505



## REEL DISASSEMBLY

1. Remove the nuts from the hub studs and lift off the rotating cover.
2. Disconnect the outer cable from the inner cable.
3. **CABLE-HOSE REELS** – Disconnect the hoses from the reel hub fittings.
4. Scribe a mark on the inner cable housing and the inner reel flange to aid in alignment during reassembly.
5. Remove the four nuts and washers attaching the inner cable housing to the inner reel flange.
6. **RIGHT HAND REEL** (See Hose Reel Identification)
  - a. Pull both flanges (with outer hose/cable) off the hub studs. Rotate the flanges slightly to free the inner cable connector.
  - b. Remove the shaft outer snap ring.
  - c. Pull the hub and stud bracket off the shaft.

**NOTE:** The O-rings in the hub produce friction. It may be necessary to tap gently on the end of the shaft with a rubber mallet while pulling on the hub.

### LEFT HAND REEL (See Hose Reel Identification)

- a. Remove the shaft outer snap ring.
- b. Pull the hub off the shaft.
- c. Remove both flanges (with outer cable/hose) and the stud bracket.

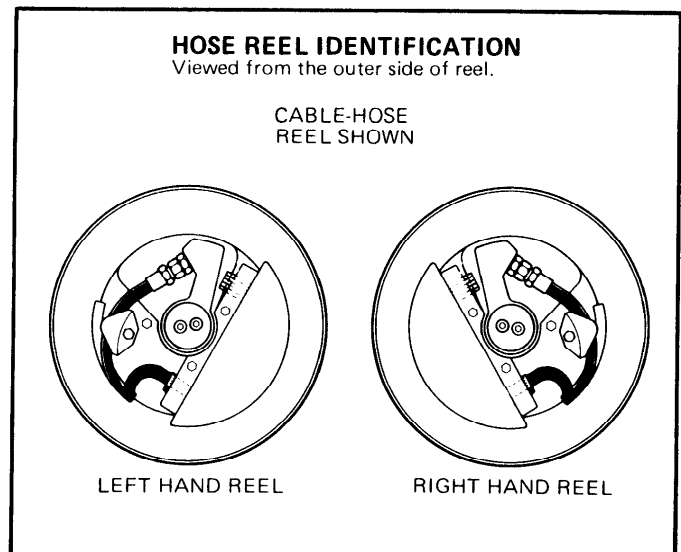
**NOTE:** The O-rings in the hub produce friction. It may be necessary to tap on the end of the shaft with a rubber mallet while pulling on the hub.

7. Disengage the spring assembly spring end from the spring retainer on the shaft.

**CAUTION:** Do not allow the inner cable housing to rotate independently of its hub. Damage to the inner cable will occur if they are rotated. Use tape or wire to hold both from rotating. **If either has been rotated**, refer to the **Inner Cable Housing Timing** instructions to reposition the inner cable.

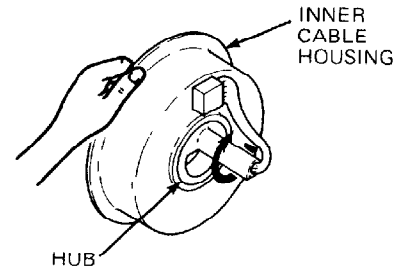
8. Hold the reel assembly over a work bench by the outside of the inner cable housing with the shaft downward. Tap the shaft end on the bench. Slide the spring assembly out of the inner cable housing and off the shaft.
9. Remove the mounting brackets and split the mounting blocks from the shaft.
10. Slide the inner cable housing off the shaft.

**CAUTION:** Do not allow the inner cable housing to rotate independently of its hub. Damage to the inner cable will occur if they are rotated. Use tape or wire to hold both from rotating. **If either has been rotated**, refer to the **Inner Cable Housing Timing** instructions to reposition the inner cable.



## INNER CABLE HOUSING TIMING

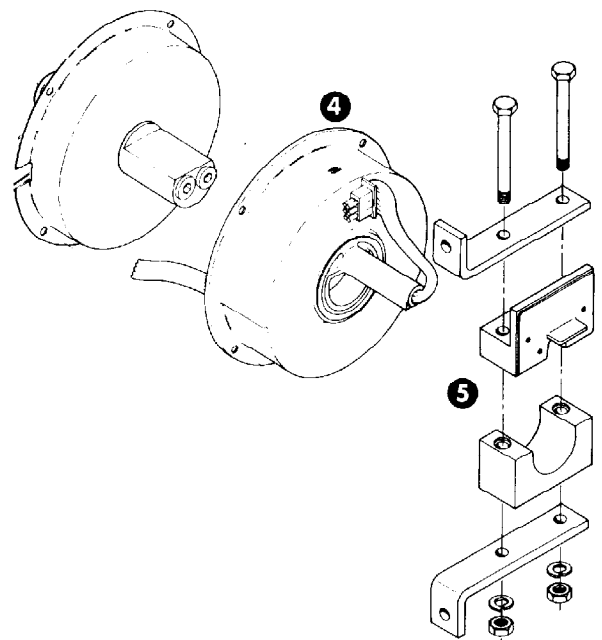
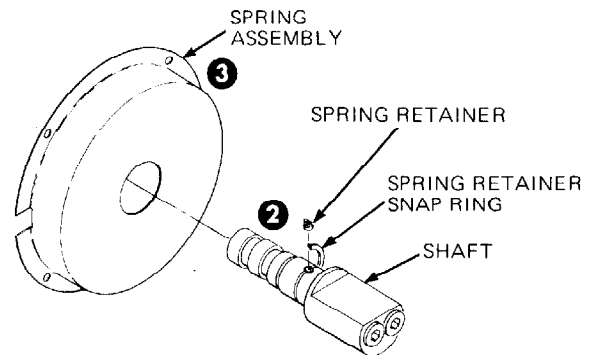
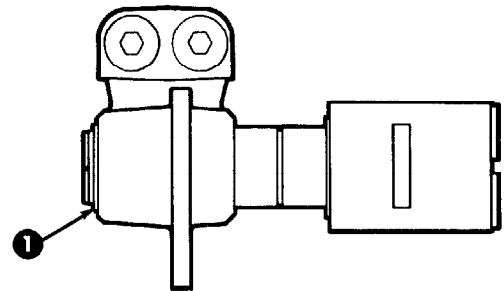
1. Determine if the reel is a right hand or left hand model as viewed from the outer flange side of the reel. See hose reel identification on page 2.
2. Position the cable container with the hub cable harness toward you.
3. Hold the housing from rotating. Wind the hub until tight:  
**Right Hand Reel:** Wind the hub counterclockwise.  
**Left Hand Reel:** Wind the hub clockwise.
4. Rotate the hub back one revolution. This provides one safety turn in the wiring to prevent internal damage.
5. Use tape or wire to secure the hub to the housing. This will prevent both from rotating. The Inner Cable Housing is ready for further reel assembly.



CLOCKWISE ROTATION SHOWN

## REEL REASSEMBLY

1. Remove the outer snap ring from the new shaft/hub assembly. Remove the hub from the shaft.
2. Remove the spring retainer snap ring and spring retainer from the old shaft. Install the parts to the new shaft.
3. Slide the spring assembly onto the new shaft. Secure the spring end on the spring retainer.
4. Fit the inner cable housing onto the shaft (do not rotate) and over the spring assembly. Be sure to fit the inner cable into the notch in the spring assembly.  
**CAUTION: Do not** Allow the inner cable housing to rotate independently of its hub. Damage to the inner cable will occur if they are rotated. Use tape or wire to hold both from rotating. **If either has been rotated**, refer to the **Inner Cable Housing Timing** instructions to reposition the inner cable.  
**IMPORTANT:** The spring assembly must be in its neutral position when fitted over the inner cable housing.
5. Install the split mounting blocks and mounting brackets.



6. Lubricate the shaft and bore of the hub with hydraulic oil.

7. **RIGHT HAND REEL**

- a. Install the stud bracket and spacer to the new hub. Rotate the hub as you slide it onto the new shaft.
- b. Install the shaft outer snap ring.
- c. Place the reel flanges onto the hub, aligning the scribe marks on the inner reel flange and inner cable housing.

**LEFT HAND REEL**

- a. With the stud bracket on the inside of the reel flanges, slide the hub and reel flanges as one unit onto the shaft.
- b. Align the scribe marks on the inner reel flange and inner cable housing.
- c. Install the shaft outer snap ring.

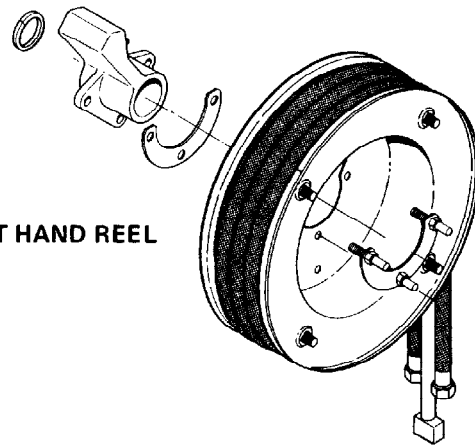
8. **CABLE-REELS** – Remove the plugs from the hub and fill the hub to within 1/4 in. (6mm) of the threads with a 50/50 mixture of "STP" and hydraulic oil.

9. Install the capscrews, lockwashers and nuts to fasten the inner reel flange to the inner cable housing.

10. Connect the inner and outer cable connectors.

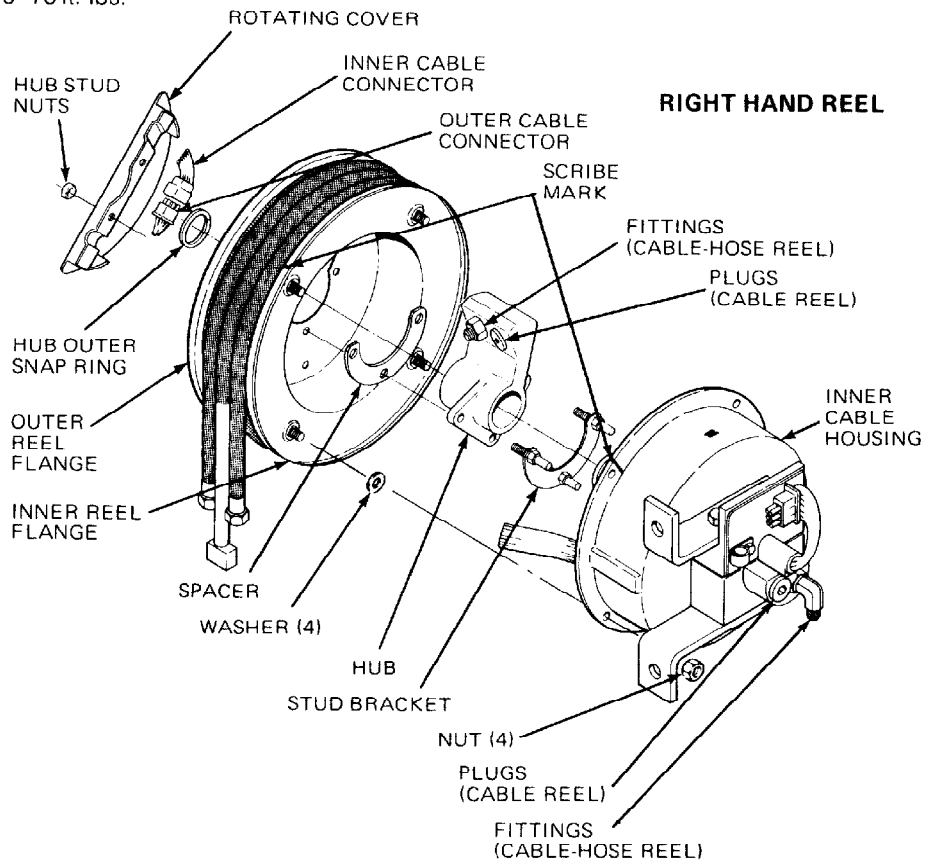
11. **CABLE-HOSE REELS** – Connect the hoses to the reel hub fittings.

12. Install the rotating cover and hub nuts. The inner cable must be laying flat in the flange depression and not pinched. Tighten the nuts to a torque of 70–75 ft.-lbs. (95–100 N·m).



LEFT HAND REEL

CABLE-HOSE REEL SHOWN



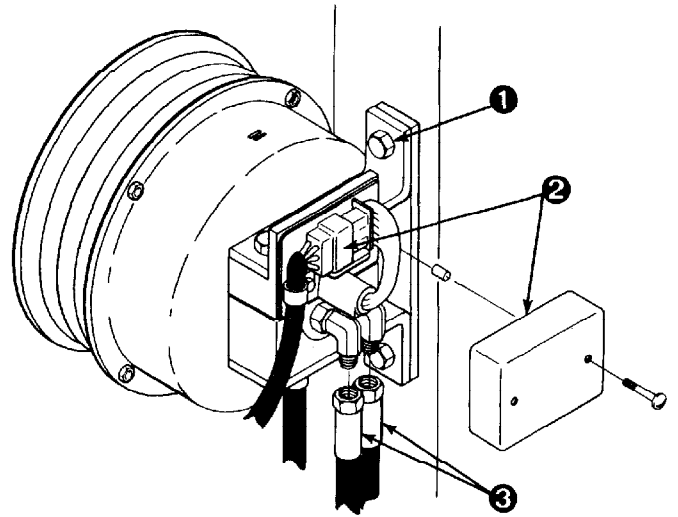
RIGHT HAND REEL

## HOSE REEL INSTALLATION

1. Attach the reel mounting brackets to the mast mounting pad or bracket.
2. Connect the reel inner cable to the truck cable at the mounting block. Install the clamp to the reel mounting block. Install the fixed cover.

**CAUTION:** Do not overtighten the fixed cover capscrews.

3. **CABLE-HOSE REELS** – Connect the truck valve hoses to the reel shaft fittings.
4. Raise the truck carriage to just below the hose reel assembly.



5. Prewind the reel spring by grasping the end of the outer cable-hose or cable and turning the reel a minimum of 3 turns in the direction indicated (viewed from the outer flange side).

**Right Hand Reel:** Wind the reel clockwise.

**Left Hand Reel:** Wind reel counterclockwise.

**CAUTION:** Rotation in a wrong direction will damage the inner cable and reel spring.

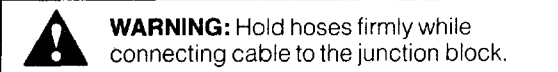
If more tension is required, the reel can be prewound additional turns. The maximum turn capacities are:

**Hose-Cable and Cable Reel:** 16 total turns.

**Cold Storage Hose-Cable Reel:** 12 total turns.

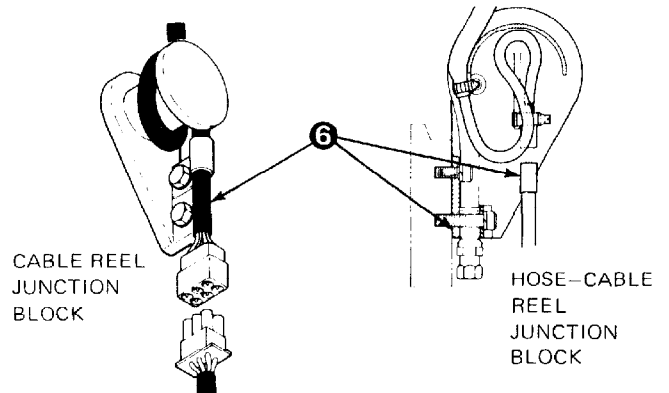
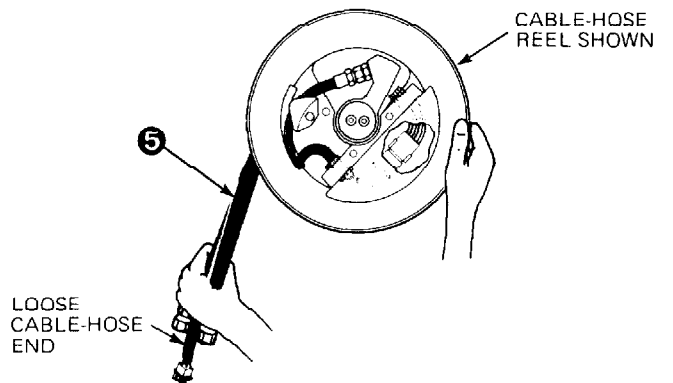
**Total turns = Prewind turns + Working turns**

**CAUTION:** Exceeding turn capacity of the reel will damage the inner cable and reel spring.



**WARNING:** Hold hoses firmly while connecting cable to the junction block.

6. While holding the reel prewound, pull the cable end to the junction block.
  - CABLE-HOSE REEL** – Fasten the hoses to the junction block with the clamp bar and capscrew. Install the cable end to the junction block as shown.
  - CABLE REEL** – Loop the cable once around the junction block and fasten with the cable clamp.
7. Operate the carriage up and down a few times to make sure the cable tracks smoothly and no interference exists.



**Do you have questions you need answered right now? Call your nearest Cascade Service Department.**

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