Counterweight Displacement Hardware Installation

For ELKCDH-RX and ELKCDH-LXXX kits

IMPORTANT NOTE: The Counterweight Displacement Hardware assembly must be clear of the counterweight guide rollers, even during a car or counterweight buffer engagement.

STEP 1 - IN THE PIT

Assemble the wire support brackets as shown in Step 1. Mount the wire support brackets to the bottom of each counterweight guide rail, low enough so that the brackets do not interfere with the normal operation of the elevator.

The brackets should be mounted using the appropriately-sized rail clip and fasteners. The ELKCDH-R8 kit uses 8 lbs rail clips with 1/2 in • 13 mm fasteners and ELKCDH-R12 kit includes 12 lbs rail clips and 5/8 in • 16 mm fasteners.

Using the ELKCDH-LXXX kit items, place a thimble onto each eyebolt. From the car top, pass down the end of the steel rope and fasten it by passing it through a rope clip around the thimble, and back up through the rope clip. Tighten the rope clip securely. Measure and record the distance from the top center of the eyebolt to the backside of the guide rails.

STEP 2 - FROM THE CAR TOP AT HOISTWAY MIDPOINT

Holding onto the top end of each cable, move the car to mid-hoistway, in order to attach the shorter 3/8 in - 16 x 5 in eyebolts to the counterweights frame. Attach the eyebolt towards the bottom of the counterweight frame and on each side so that the cable will pass directly through the center of the eyebolt without touching it. Use the horizontal distance from the backside of the guide rails as a reference.

STEP 3 - AT THE TOP OF THE HOISTWAY

Place a bushing in a wire support bracket and a 3/8 in - 16 x 16.75 in eyebolt through the bottom of the bushing and fasten it by adding a fender washer, spring, a second fender washer, and two 3/8 in hex nuts. Repeat the procedure for the second top bracket assembly.

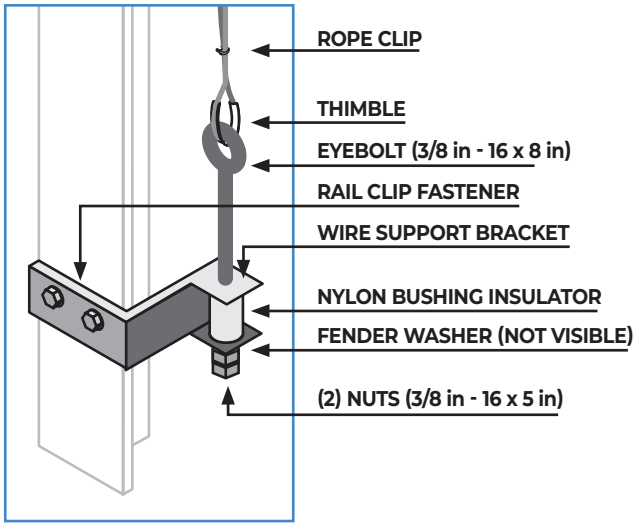
Attach the assemblies to the top of each guide rail, high enough so that it doesn't interfere with the normal operation of the elevator including car buffer engagement.

Place thimbles onto each of the eyebolts. Take the cable end and fasten it by passing it through a rope clip, around the thimble, and back through the rope clip. Tighten the rope clip to secure the cable. Cut the excess slack of the cable. The cable should be securely fastened through the eyebolt. Place tension on the cable by tightening the nut closest to the spring. After tensioning, tighten the second nut onto the other as a jam nut.

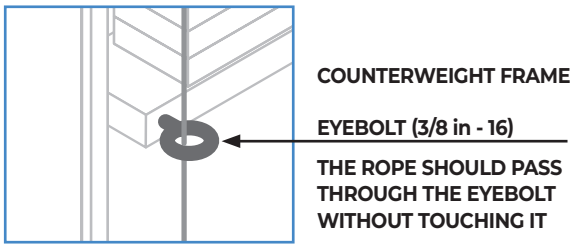
NOTE ON WIRING

The ELKCDH kits provide only hardware components for counterweight displacement. Electrical connections vary by installation requirements and are the responsibility of contractor.

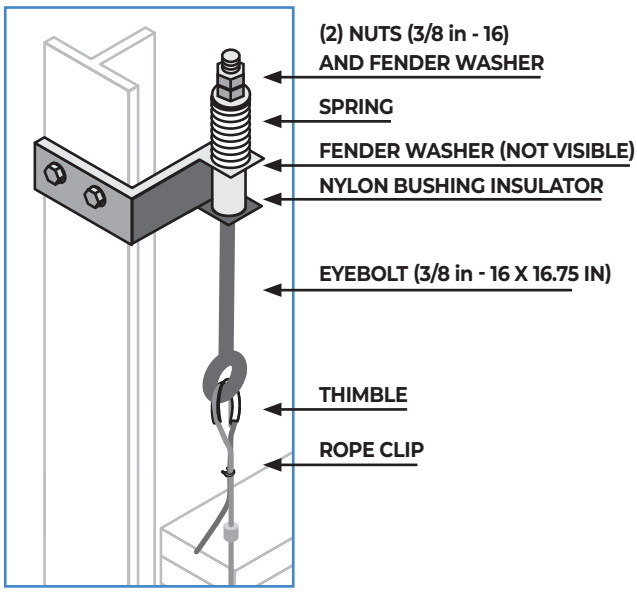
STEP 1 - BOTTOM BRACKET



STEP 2 - HOISTWAY MIDPOINT



STEP 3 - TOP OF THE HOISTWAY



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