



## Installation and Maintenance Manual for SPANCO<sup>®</sup> Ceiling Mounted ALU-Track<sup>®</sup> Bridge Cranes





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**This equipment is NOT, in any way, designed for lifting, supporting, or transporting humans. Failure to follow the specified load and mounting limitations can result in serious bodily injury and/or property damage.**

**IT IS SOLELY THE CUSTOMER'S RESPONSIBILITY TO PROVIDE SUITABLE MOUNTING SUPPORTS FOR THE JIB CRANE. SPANCO RECOMMENDS THAT THE CUSTOMER CONSULT A QUALIFIED PROFESSIONAL ARCHITECT OR ENGINEER IN YOUR LOCAL AREA TO DETERMINE THE ADEQUACY OF THE BUILDING SUPPORT. THERE SHOULD BE NO DEVIATION FROM THE RECOMMENDED FOUNDATION SIZE OR INSTALLATION RECOMMENDATIONS WITHOUT FIRST CONSULTING A QUALIFIED PROFESSIONAL.**

## PREPARATION

Before starting the installation, check the material list to be sure you have received all parts. Systems that mount directly to overhead supports with flush mount brackets do not require sway bracing.



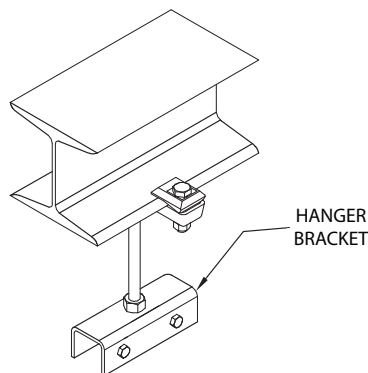
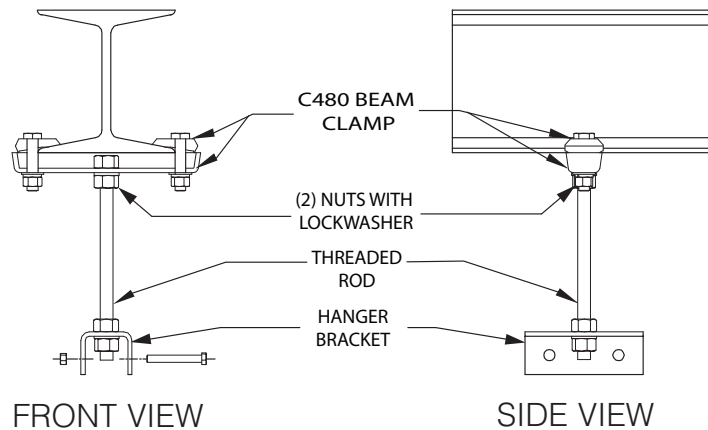
**All systems with drop rod hangers must be laterally and longitudinally braced. Sway bracing is furnished by others.**

## RUNWAY INSTALLATION

Ceiling mounted systems vary in design. The position of support brackets or hangers vary with track, capacity, and building structure. Be sure that runway support centers (hanger points) do not exceed SPANCO specifications.

The hanger rod should be installed on the C-480 clamp before placing the clamp on the beam. Use 2 nuts and lock washers. Counter-tighten nuts until washer is fully flattened. Bolt the proper mounting support brackets or hangers to the ceiling beam. Note that the C-480 clamp is rated for a maximum of 8" wide by 7/16" thick flanges.

The hangers are installed next.

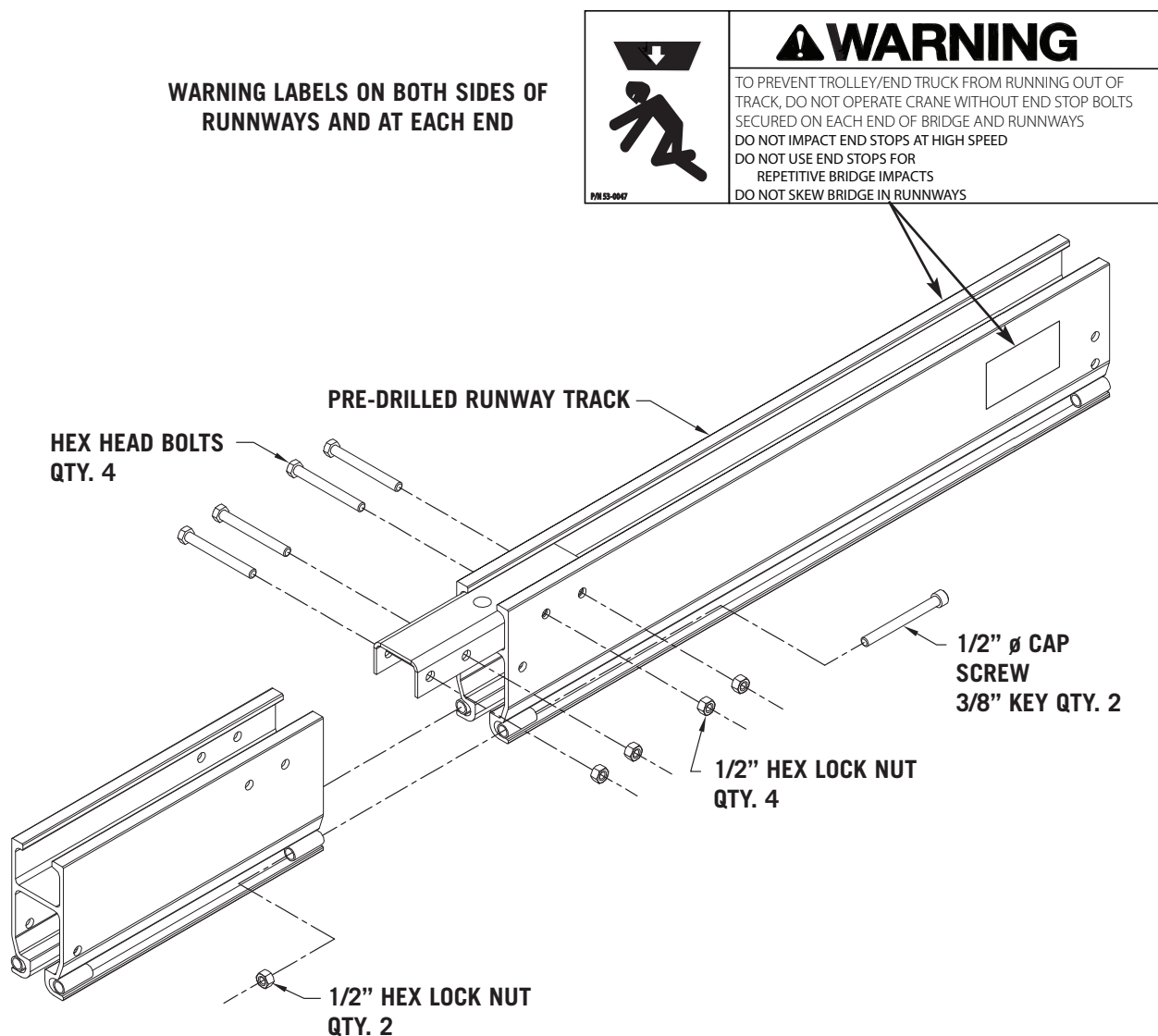


## RUNWAY INSTALLATION (continued...)

Place track on hangers. Hangers must align with holes in track. Hangers must have 2 bolts in place. Before tightening bolts at splices, check that the track sections are aligned to ensure free rolling of end trucks.

Alternately, the hangers and hanger rods may be attached to the track first and then this assembly attached to the beam support.

Runways located at the ends of the system must have endstop warning labels in place on both sides at the end. If the labels are not already on the runways or are not received, contact the factory for replacements. (SPANCO Part No. 53-0047).



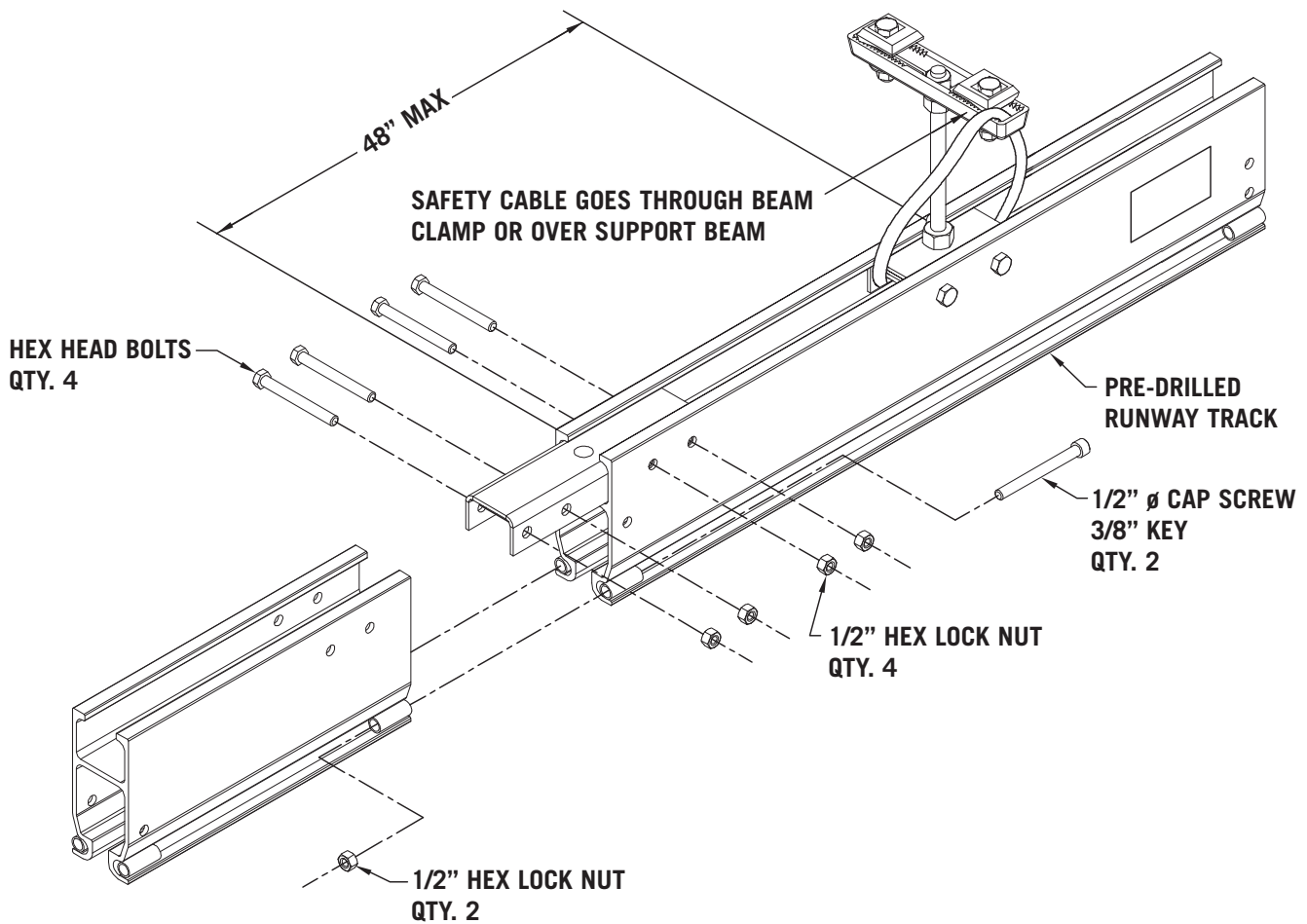
**NOTE: QUANTITIES ARE FOR ONE SPLICE JOINT ASSEMBLY**

## RUNWAY INSTALLATION (continued...)

Runway splices may be installed where there is no hanger rod. These splices include a splice channel, 4 hex head bolts, 2 cap head bolts, and 6 lock nuts.

### **⚠ WARNING**

Splice joints must be within 48" of a hanger or splice hanger. Maximum runway cantilever is 18" at all ends not including festoon storage area.

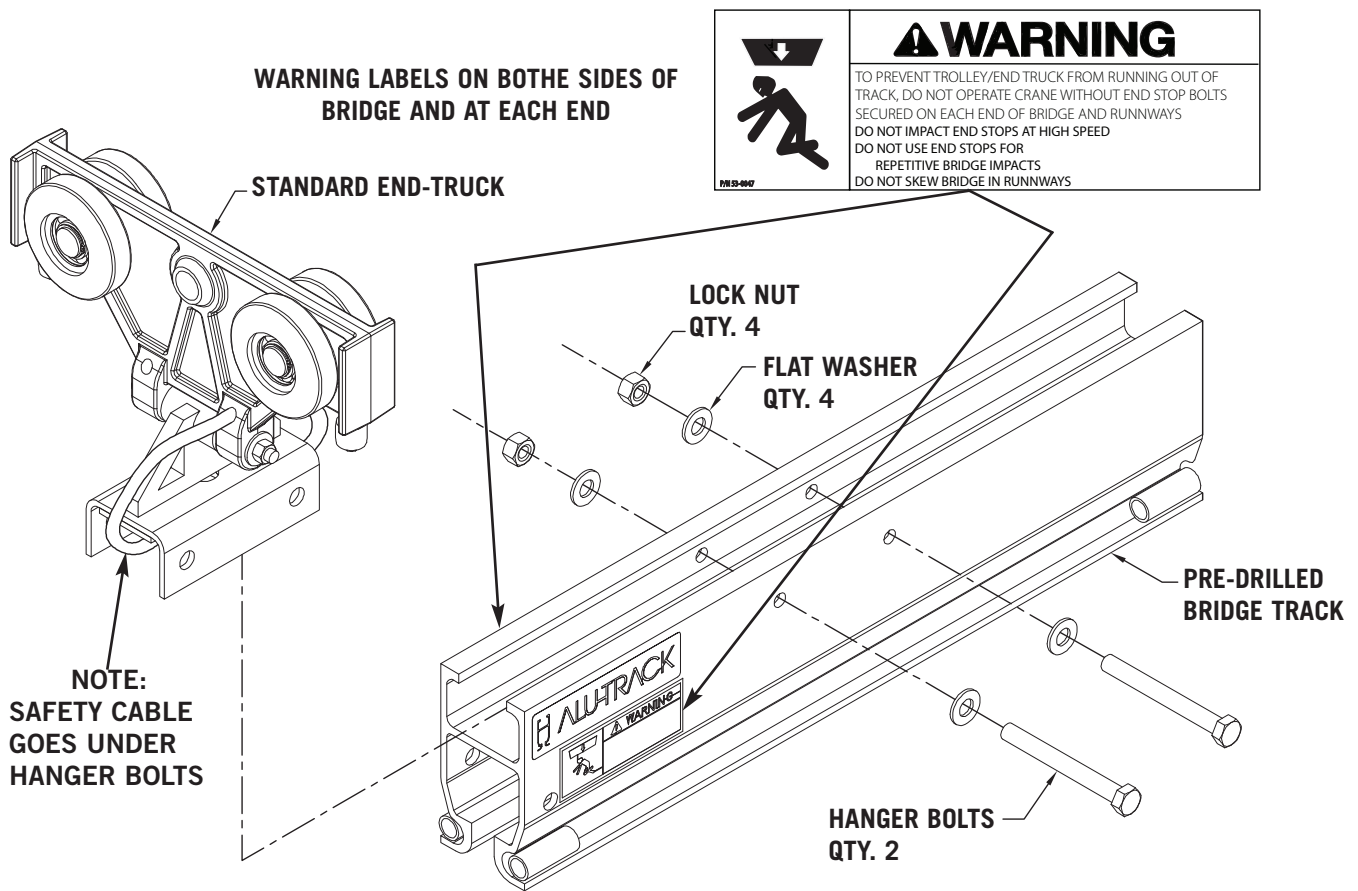


NOTE: QUANTITIES ARE FOR ONE SPLICE JOINT ASSEMBLY

# BRIDGE AND END-TRUCK INSTALLATION

Insert the end-trucks onto the bridge by sliding the hangers in at the ends. The end-trucks will line up with predrilled holes in the bridge. Both end-trucks must be bolted securely in place. See figure below for details. Install the bridge by inserting both end-trucks into one end of two runway tracks. Note that after installation bridge must have a minimum of 3" of clearance between the top of bridge and any overhead obstructions. There should be a minimum of 2" between the ends of bridge and any side obstructions.

Secure end stop assemblies, which include end-stop bolts, locknuts, and round rubber bumpers, at both ends of both runways. If a festoon track extension is being installed, this runway end will be done in the next step. The 8" ALU-track profile receives two bumpers per end. Both must be installed. Some compression of the rubber may be necessary to make them fit.



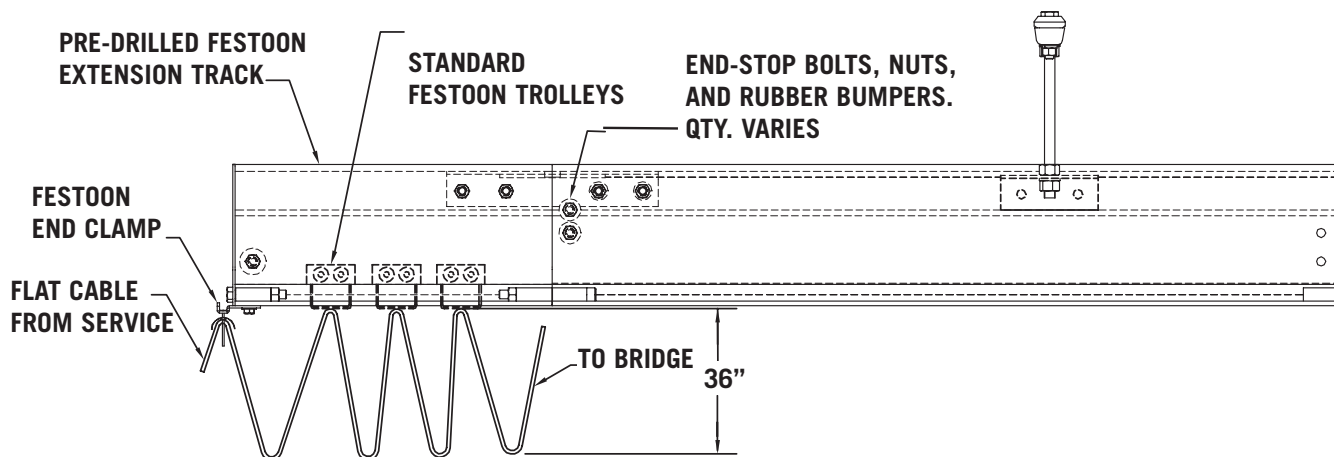
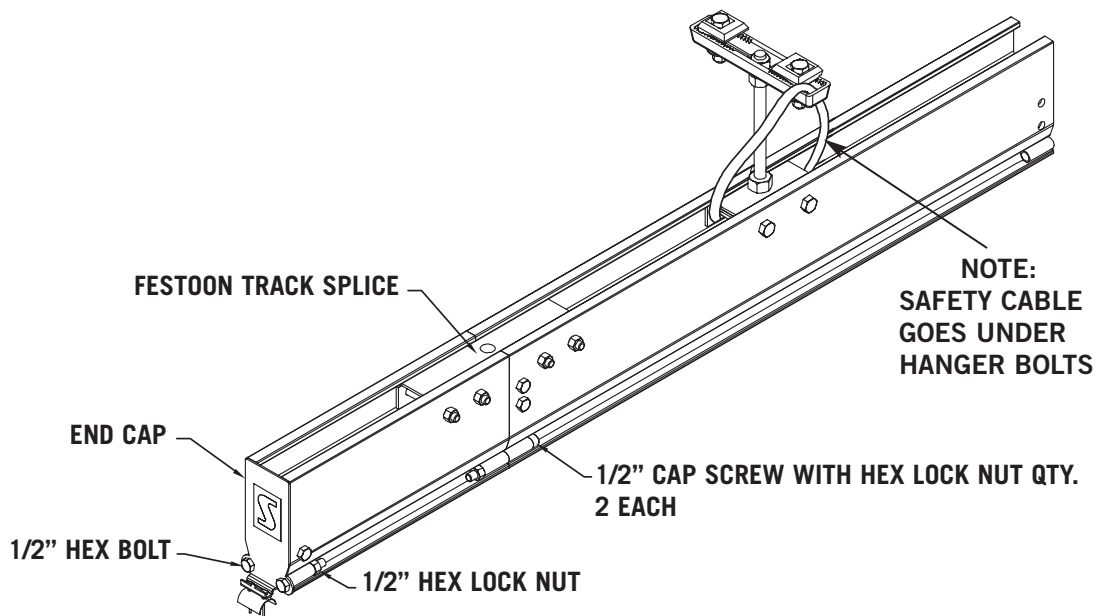
**NOTE: QUANTITIES ARE FOR ONE END-TRUCK ASSEMBLY**

# FESTOON TRACK INSTALLATION

Install festoon trolleys and cable. Use the following spacing:

Bridges	18" loops, approximately 3'-4" c/c of trolleys
Runways	36" loops, approximately 6'-7" c/c of trolleys

Place festoon track extension on end of runway as close as possible to the power junction box. The extension bolts to the runway in a similiar manner to the runway splice arrangement. Ensure that the tracks are lined up before fully tightening bolts. Install the festoon end clamp at the end of the track extension as shown. Install the festoon cable on the festoon trolleys at equal spacing.





# HOIST TROLLEY INSTALLATION

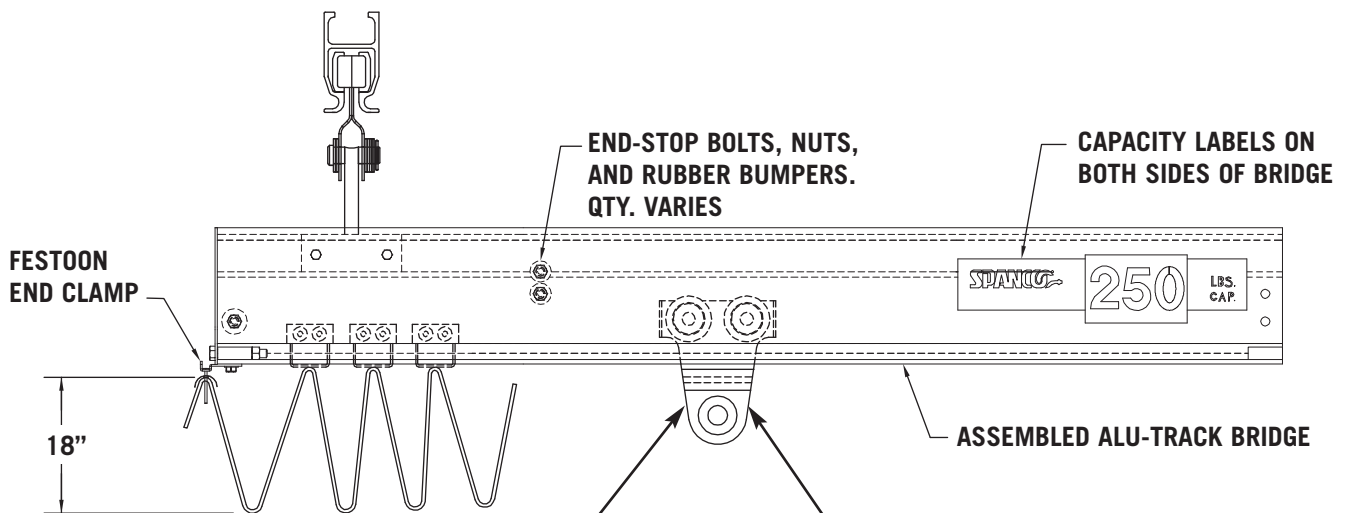
Install the festoon cable and end-clamp on the bridge in a similar manner to runways. Insert the hoist trolley on the bridge from the opposite end. Install all bridge end stops. The hoist (supplied by others) can now be installed on the trolley pin at anytime. After installation the cotter pin(s) should be bent over immediately. Be sure that there is a washer on the outside of each side of the trolley.



## WARNING

Do not operate hoist or crane if cotter pins are not in place and properly bent over on both sides of the hoist trolley. Check regularly that the cotter pins are in place and securing the hoist on the hoist trolley.

With all end-stops in place, the bridge and runways can be leveled and sway bracing installed as required. The end-stops can now be installed on the ends of the bridges and runways. When this is completed, the entire system should be checked for proper alignment and tightness of all nuts and bolts.



**WARNING**

DO NOT OPERATE HOIST/CRANE IF SPLIT/COTTER PINS ARE NOT IN PLACE AND PROPERLY BENT OVER ON BOTH SIDES OF HOIST TROLLEY.

P/N 53-0058

**Opposite Side**

SAFETY INSTRUCTIONS

**BEND COTTER PIN OVER BEFORE USE. HOOK MUST BE CENTERED ON TROLLEY PIN.**

P/N 53-0059

**NOTE: Some trolleys load pins only have one cotter pin.**

## WARNING, SAFETY, OR CAPACITY LABEL

If at any time these labels are lost, stolen, removed, or become illegible, contact SPANCO at 800-869-2080 for free replacements. Please order by part number on the label or by the facsimiles in this manual.

## ACCEPTANCE TEST

After the SPANCO crane or monorail system has been installed, OSHA requires an acceptance test before operating and also after any modifications. This acceptance test should be performed by an authorized dealer or installer.

## MAINTENANCE

During the first month after a new installation, a weekly inspection of the systems should be performed. All nuts, bolts, and screws should be checked for tightness. All end stops, cotter pins, and hoist trolleys should be checked for abnormal wear or breakage. Check all track splices for alignment and that end-trucks and festoon trolleys travel smoothly through the joints. Also, check that all festoon cables and/or hoses are securely clamped to the festoon trolleys and end clamps. Adjust as necessary.

Thereafter, a complete inspection of all fasteners and connections should be performed at least monthly. It is important to note that every system application and use will be different, therefore some conditions of use should require more frequent inspection. Examples of such conditions might be two or three shift operations, highly repetitive and fast movement of the crane, or frequent crashing of the crane end-trucks or trolley into the end stops. **Note: Contact of bridge with end stops or another bridge should be made with caution.**

It is expected that every time an operator uses a SPANCO crane or monorail system, they visually inspect the system before using it and note any unusual or abnormal operation of the system while using it. Meticulous, careful operation of the system will help minimize system maintenance.

### ITEM

- nuts, bolts, screws
- end stops, cotter pins, hoist trolley(s), track, and supports
- track splices
- festoon cable/hoses

### CHECK

tightness  
abnormal wear or breakage  
alignment and smooth travel through joints  
clamped securely, abnormal wear or breakage





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## TEN-YEAR SPANCO WARRANTY

### Products covered under the Ten-Year Warranty:

- Manual Steel Freestanding, Ceiling Mounted Workstation Bridge Cranes, and Monorails
- Manual Aluminum (Alu-Track®) Workstation Bridge Cranes and Monorails
- Manual Jib Cranes (I-Beam, Articulating, and Workstation Jib Cranes)
- Manual Gantry Cranes and Tripods

### What the Ten-Year Warranty covers:

- Defects in Equipment material and workmanship
- Wearable parts (end truck and hoist trolley wheels only)

Spanco, Inc. warrants its manual workstation bridge crane products, jib crane products, and gantry crane products to be free from defects in material and workmanship for a period of ten (10) years or 20,000 hours, commencing on the date of shipment to the first retail purchaser. This warranty extends to non-wearable parts only, with the exception of the wheels supplied on manually operated workstation end trucks and hoist trolleys. This warranty does not cover defective equipment or system failure caused by misuse, negligence, improper installation or maintenance, or equipment that has been used in excess of its rated capacity or beyond its service factors. It does not apply to equipment that has been altered without Spanco's written authorization.

Written notice of any claimed system defect must be given to Spanco within thirty days of discovery. Spanco's obligation under this warranty is limited to the replacement or repair of Spanco's products at the factory or separate location approved by Spanco. The purchaser is responsible for all freight and transportation costs relating to equipment repair or replacement. **Other than the abovementioned warranty, Spanco will not honor any other warranties—whether express, implied, or statutory—and disclaims any warranties of merchantability or fitness for a particular purpose. Spanco is not liable—under any circumstances—for any indirect, incidental, or consequential damages including but not limited to lost profits, increased operating costs, or loss of production.**

This warranty does not extend to components or accessories not manufactured by Spanco. The purchaser's remedy for such components and accessories will be determined by the terms and conditions of any the warranty provided by the manufacturer of such components and accessories.

**NOTE:** *All motorized Spanco products come with a One-Year Warranty on drive components.*