

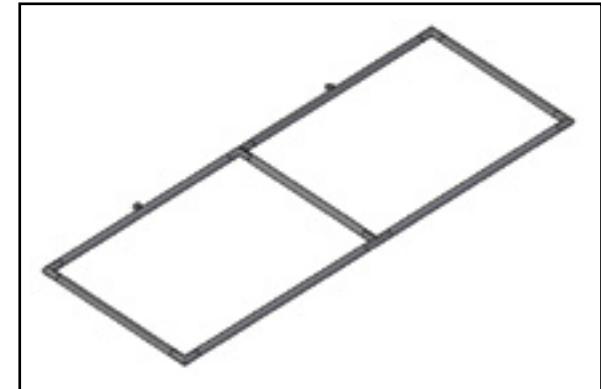
# AVIATOR

HANGING FABRIC STRUCTURES

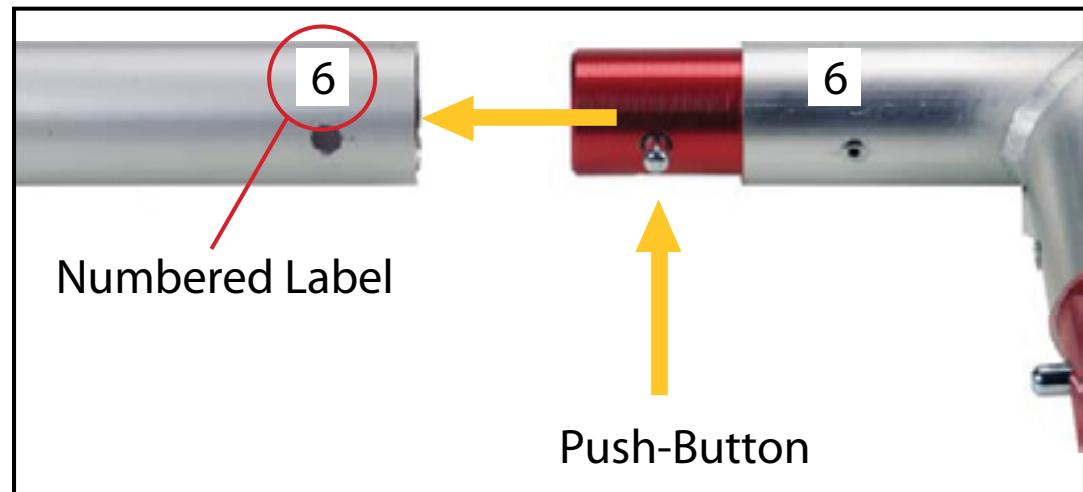
**Using Your Setup Instructions**

The Overhead Sign Setup Instructions are created specifically for your configuration. They include an exploded view of the frame which is sequentially numbered. We encourage you to study the instructions before attempting to assemble your exhibit.

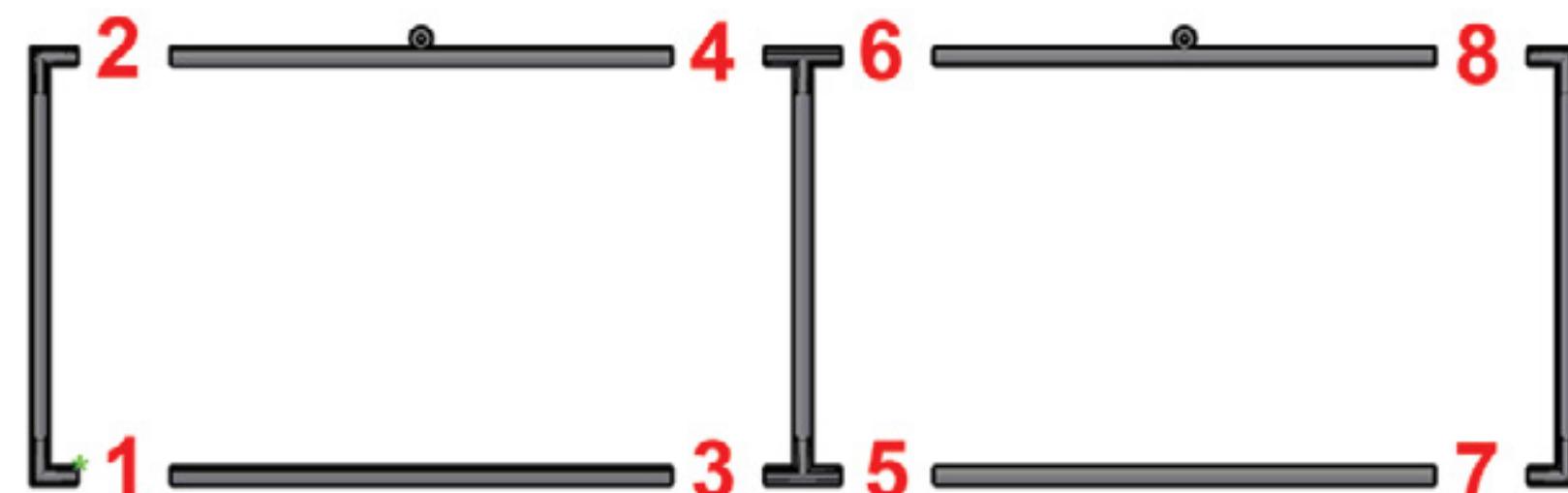
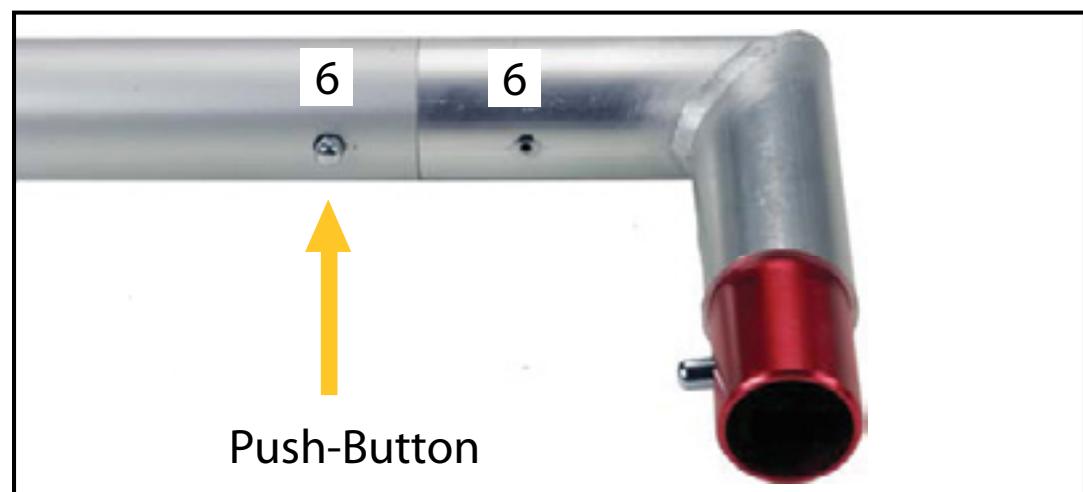
Connections are kept very simple: no tools. Everything assembles with push-button connectors and pre-connected horizontal sections.

**Cleaning and Packing Your Display**

- 1) Use care when cleaning aluminum extrusion or acrylic inserts. Use only non-abrasive cleaners.
- 2) Retain all packing material. It will make re-packing much easier and will reduce the likelihood of shipping damage.



Connections are made by holding the button down and sliding the red tube into opposing tube until the connection is made. To disassemble push button and pull or twist extrusions apart.

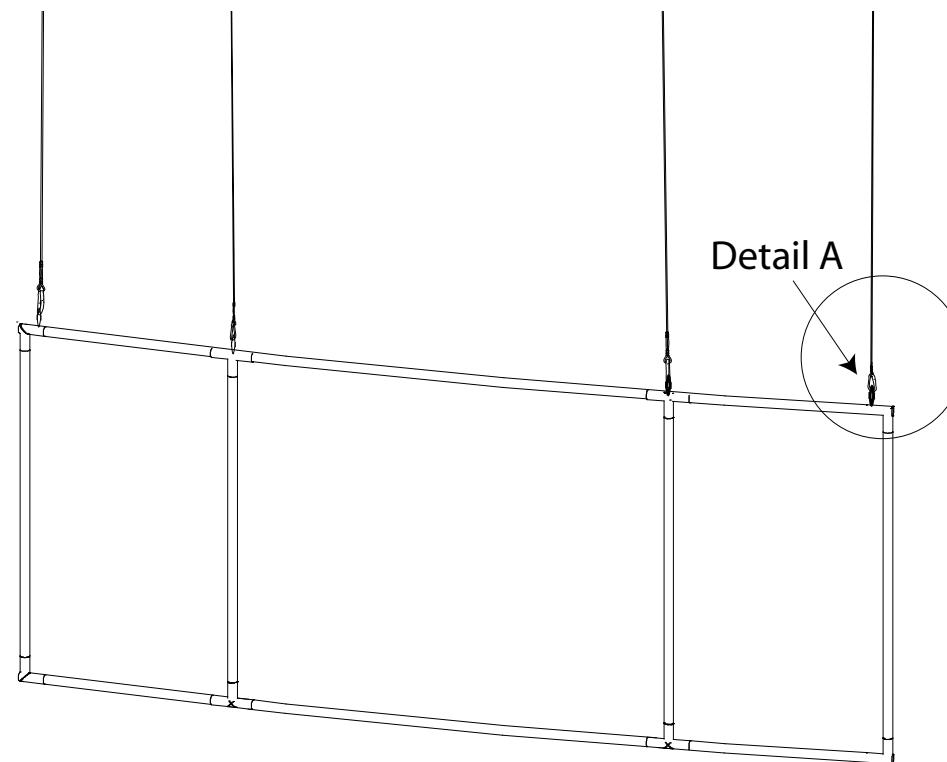


\*NOTE: The Frame Numbers may vary in color from frame-to-frame and may have colored dots on them for frame distinction.

**Steps:**

- 1.) Connect same Colored numbered pieces together in numerical order 1-8.

## Engineering Specifications



### Harness Strength Calculation

Hanging sign weight is calculated based on weight of the structure and the weight of the fabric:

1. The weight of the structure material is 0.29 lbs per linear feet
2. The weight of the fabric is 0.04 lbs per sq. feet

Based on information above, one string of the harness at a standard 90 degree sling angle will accommodate 163 sq. feet surface measured sign. The vertical string will hold 233 sq. feet surface measured sign.

NOTE: If motor used for rotation, see motor specification.

Construction consists of the following materials:

1. 302/304 (1/8") Stainless Steel Cable (Rated at 1760 lbs break strength)
2. Plated Spring-loaded Interlocking Snaps (Rated at 280 lbs working load)
3. Nicoperss Oval Sleeves (Holding strength rated at 900 lbs)
4. 0.25" x 4" Diameter T6061 Aluminum Plate
5. Eye Bolts (Rated 900 lbs on vertical lift and 450 lbs on 45 degree lift)

Detail A		
Harness Tail Assembly		
	10c	
		10f
MK	Qty	Desc
10c	2	.125 Copper Stop 520-20040
10f	1	.313 Kidney Snap 434-24905
		Typical 4 Places

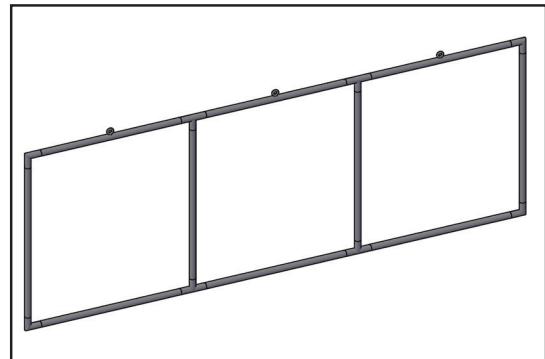
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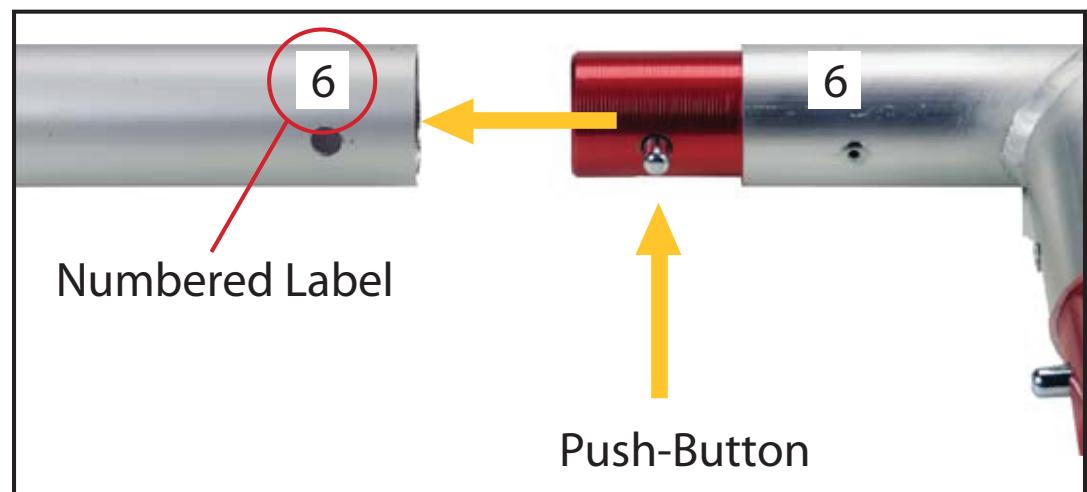
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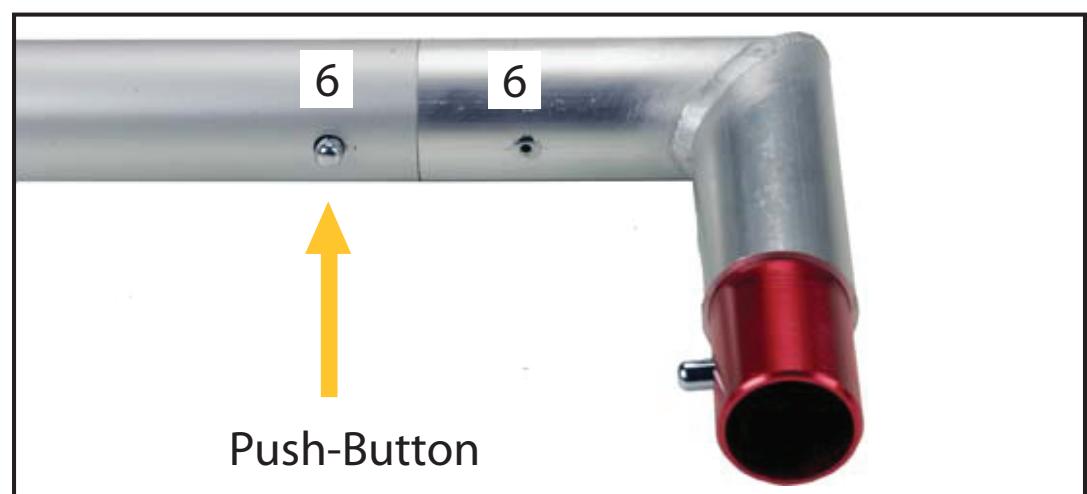
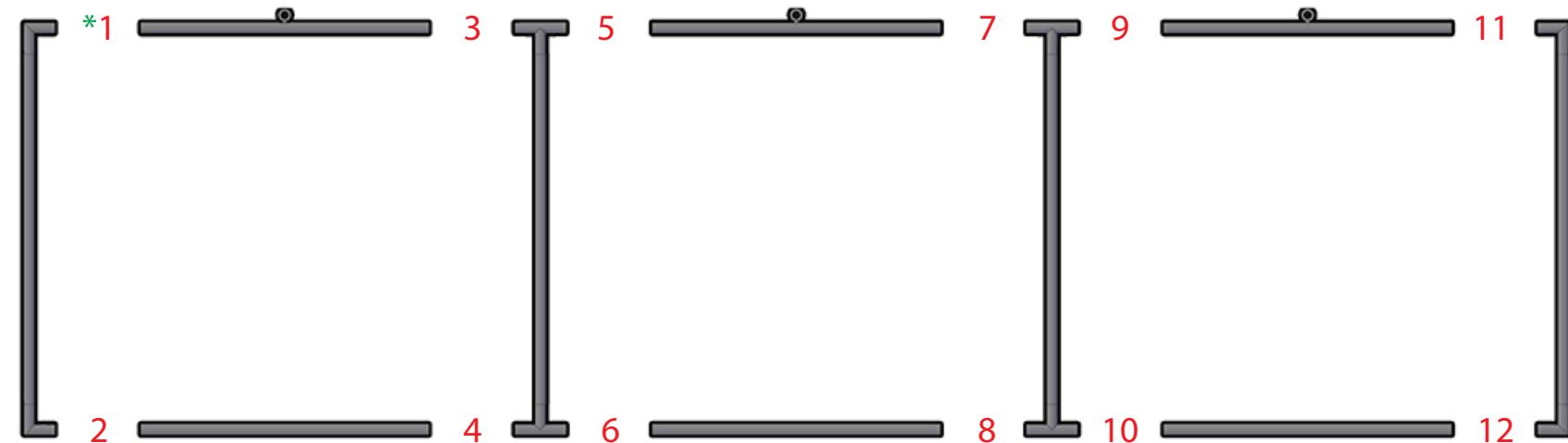
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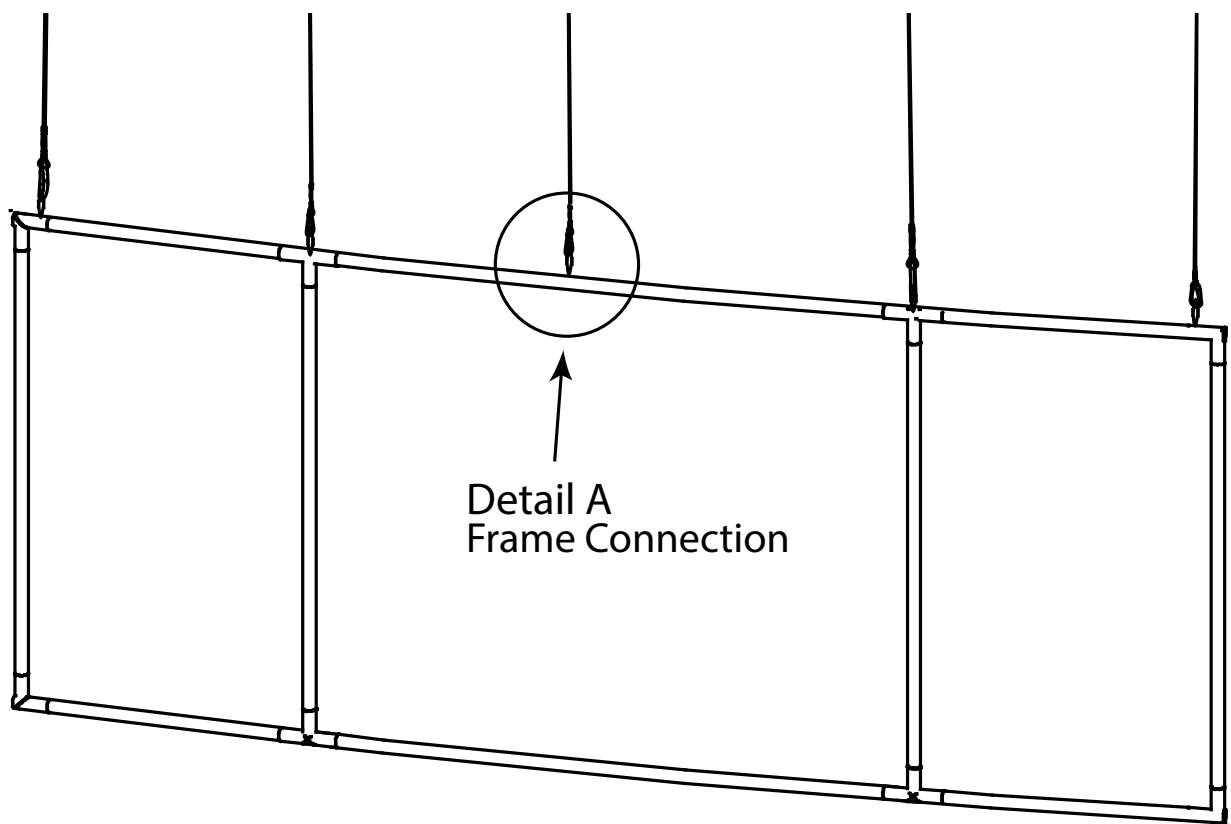


Connections are made by holding the button down and sliding the red tube into opposing tube until the connection is made. To disassemble push button and pull or twist extrusions apart.

**Steps:**

- 1) Connect same Colored numbered pieces together in numerical order **1-12**.

\*NOTE: The Frame Numbers may vary in color from frame-to-frame and may have colored dots on them for frame distinction.

*Engineering Specifications***Harness Strength Calculation**

Hanging sign weight is calculated based on weight of the structure and the weight of the fabric:

1. The weight of the structure material is 0.29 lbs per linear feet
2. The weight of the fabric is 0.09 lbs per sq. feet

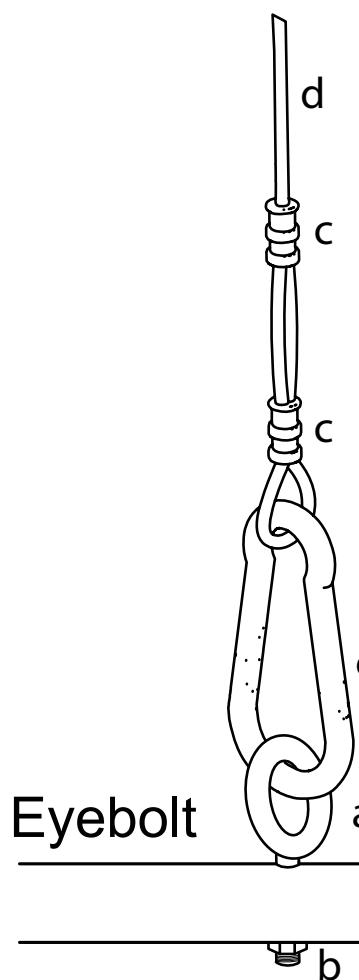
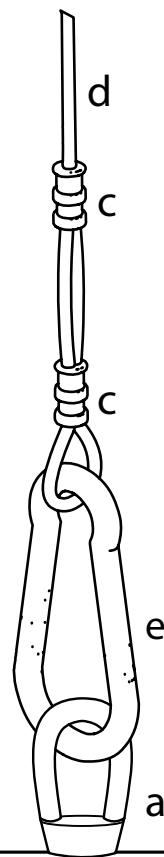
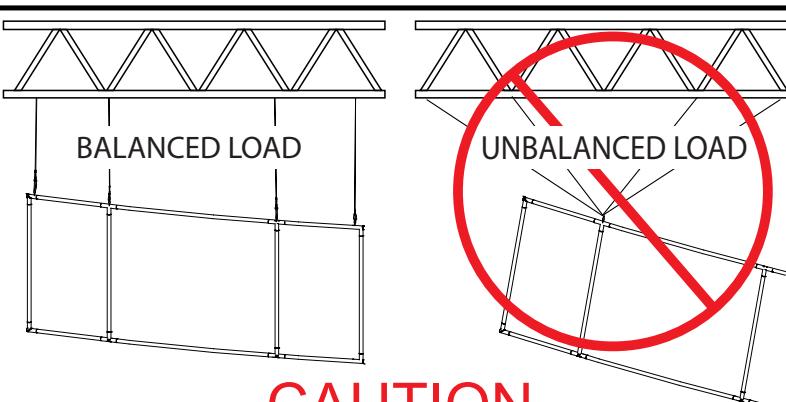
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**Detail A**

**Harness Head Assembly  
to Eyebolt or Eyenut.**

**Eyebolt****Eyenut**

**CAUTION**  
Make sure frame load is balanced when rigging.

Item	Qty	Description
a	Varies	.313 Steel Threaded Eyebolt/Eyenut
b	1/bolt	.313 Steel Hex Nut
c	4/cable	.125 Copper Stop Ferule
d	Varies	.125 Steel Cable
e	2/cable	.313 Steel Carabiner Snap

**WARNING!**Risk of Falling Objects when  
hanging objects over head.