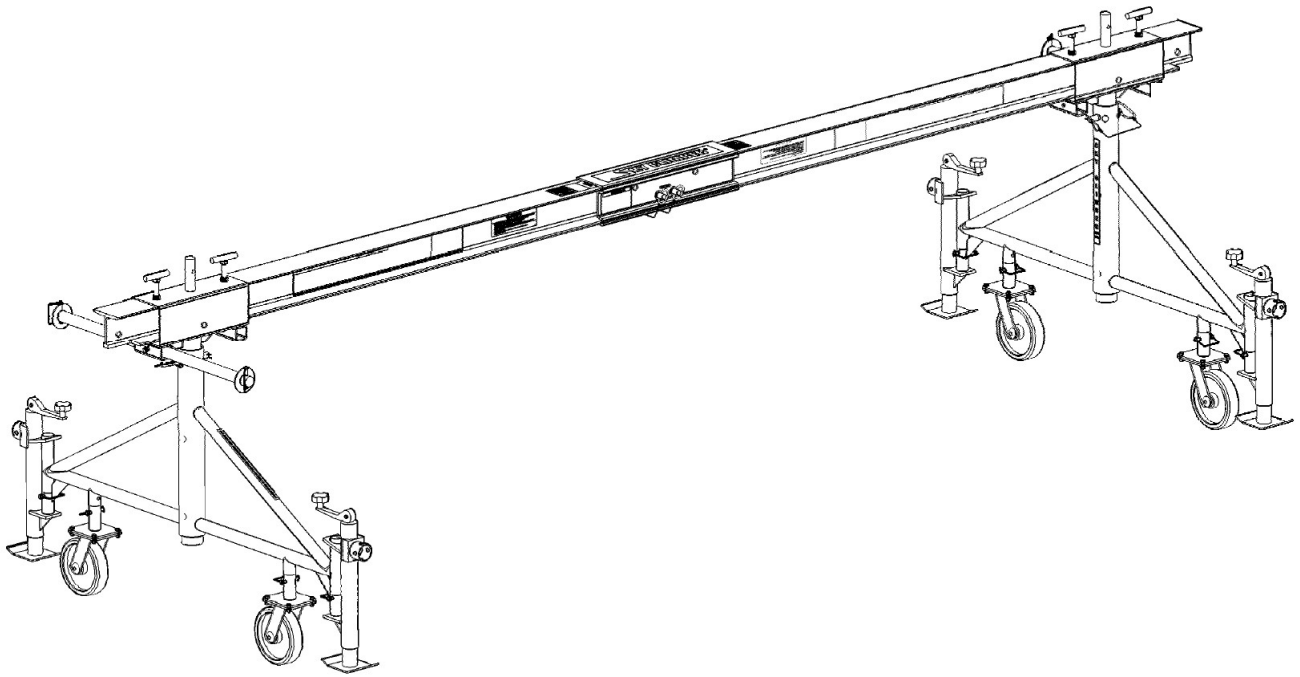


# Sky Rig Assembly Instructions



Sky Rig roof rigging, Corner Adaptor, and Beam Splice Tube Packages

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# SAFETY CHECKLIST

## TO OWNERS AND DISTRIBUTORS

It is imperative that this manual be given to the erector and/or operator of Sky Climber equipment and that they read, fully understand, and follow all instructions contained herein.

### WARNING

Any use of this equipment, other than in strict accordance with these instructions, shall be at the Operator's risk and may result in serious injury to themselves or others.

### DAILY CHECKLIST

Prior to use, check Sky Climber Hoists, Sky Locks, wire rope and other equipment for wear. DO NOT use hoists or Sky Locks which are damaged or worn beyond normal tolerances.

Ascertain that:

- Instructions are kept with the unit at all times. Additional copies are available – contact Sky Climber or visit [www.skyclimber.com](http://www.skyclimber.com).
- All Warning and Rating labels are in place, legible, and have been read.
- Roof rigging load is adequately distributed over the roof or parapet.
- Counterweights are non-flowable type, secure and in the correct quantities.
- Cornice hooks, parapet clamps, or outriggers are secured and tied back. Tiebacks are tight and straight back or two opposing tie-backs are used (contact Sky Climber Engineering for details).
- Wire rope inspected and is not kinked, bird-caged, or otherwise damaged or overly worn.
- Minimum of three (3) J-Clamps / fist grips are used and are properly torqued. (Four J-Clamps are required for round thimbles).
- Suspended platform hoist is connected to proper power source.
- Hoist drain holes on bottom are open. Check that fasteners are properly installed on air hoists; oil level in lubricator of hoist is acceptable.
- Sky Lock, Hoist Load, Controlled Descent, and Emergency Stop tests performed and acceptable.
- Make sure ALL fall protection equipment is damage-free and in good condition.



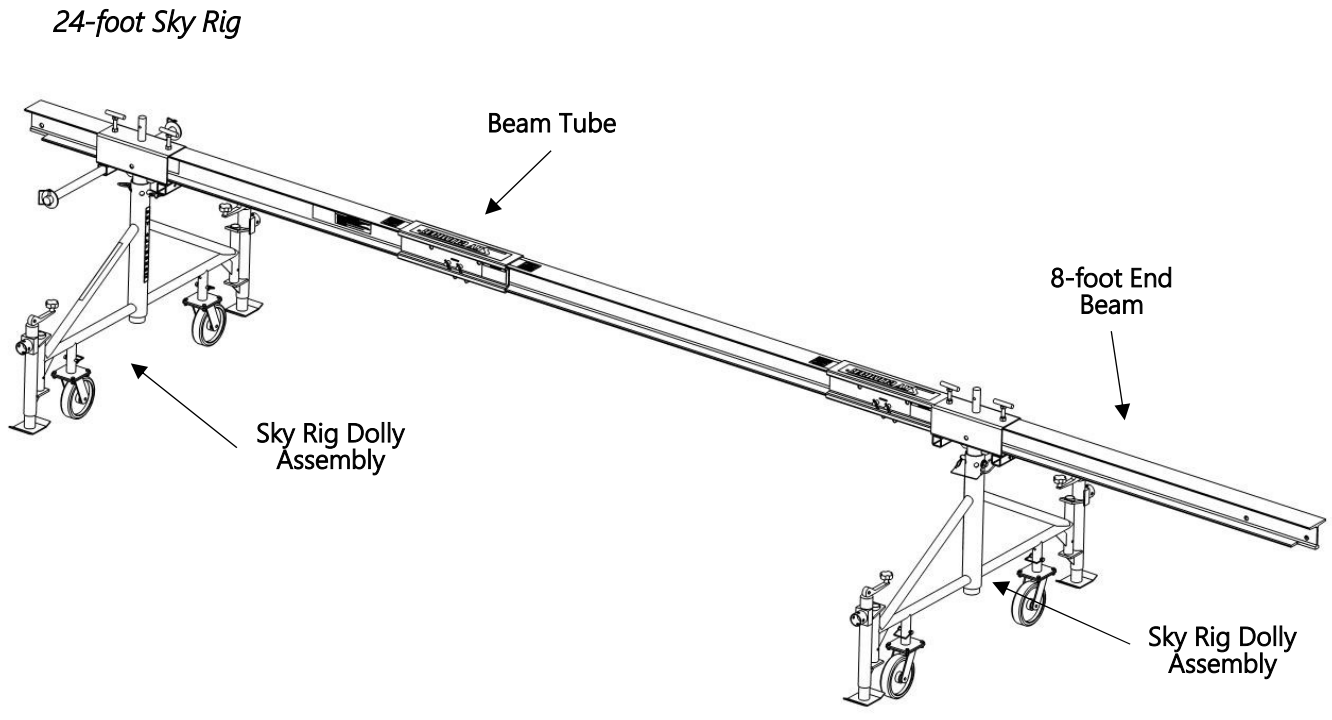
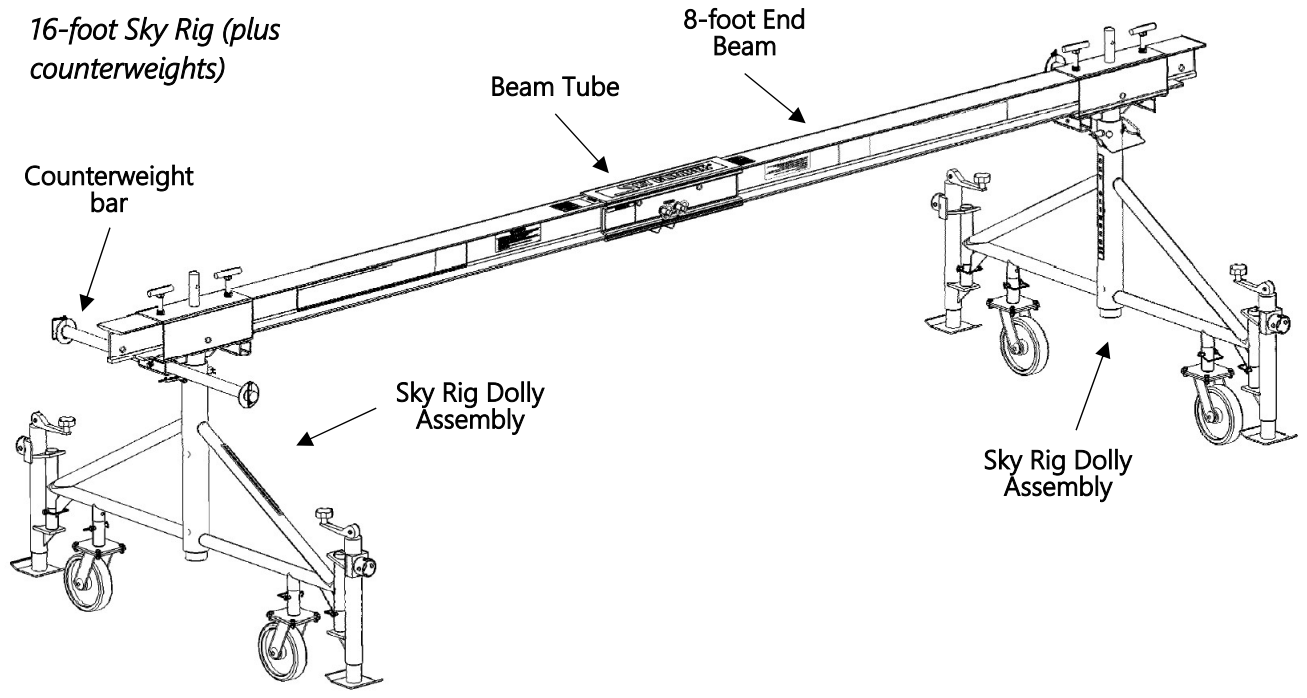
**SAFETY IS THE RESPONSIBILITY OF BOTH OWNERS AND OPERATORS OF THIS EQUIPMENT.**

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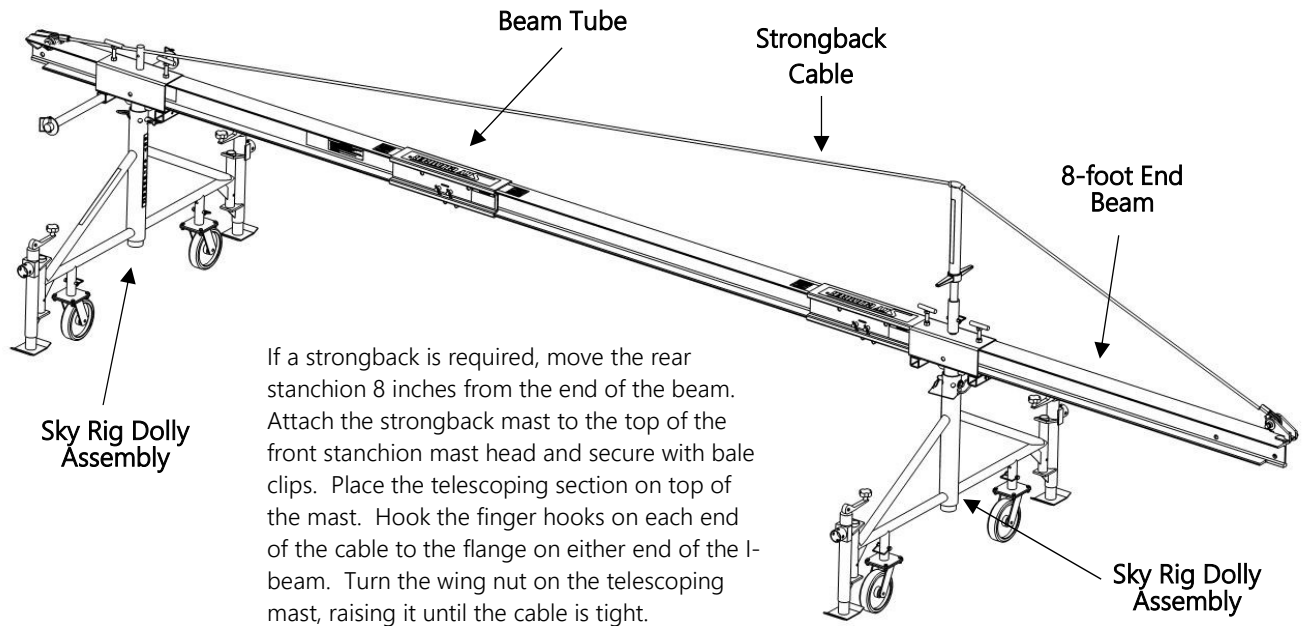
# ASSEMBLY INSTRUCTIONS

## Sky Climber Sky Rig

1. Assemble beam using beam tube or splice plates. The 16-foot Sky Rig Package (Part number 3835-ABT) consists of one 2-foot beam connection tube, two end beams, and two Sky Rig rolling rig dolly assemblies with casters, jacks, and weight bars.
2. Install casters on Sky Rig Dolly frames and pin in place.
3. Raise the mast to the desired height and insert the retaining pin. Loosen the t-handles on the mast head. Insert and pin a jack on each side of the stanchion. Repeat with second mast.
4. Install jacks and pin in place.
5. Insert the assembled I-beam through the mast head of the front stanchion until you reach the desired amount of outreach. Tighten the t-handles. Insert other end of I-beam through the mast head of the rear stanchion until about 3 inches of the beam extends beyond the mast head (packages 3835-ABT and 3835-BBT).
6. Insert two counterweight bars and pin in place.
7. Check chart to determine maximum amount of outreach for your application. If a strongback is required see package 3835-CBT.
8. Roll the assembled Sky Rig into the desired location. Crank the jacks until the load is removed from the casters and the roof rig is level.
9. Slide the correct number of counterweights (see chart on page 6) onto the longhorn rods. Slide the large washers onto the rods and place a bale clip or nut and bolt through the ends of the rods to retain the counterweights.
10. Attach the tie back wire rope to the hole in the rear of the I-beam or the shackle of the suspension rope and tie back to a substantial building structure\*.  
*\*Substantial building structures are defined and verified as an anchor point designed and confirmed in writing by an engineer, with a 4:1 safety factor versus the rating of the hoist being used.*
11. Attach the suspension wire rope assembly to the hole in the front of the I-beam.



**24-foot Rolling Roof Rig  
WITH Strongback**



**Rigging Collar Instructions**

- The Rigging Collar is designed to be used when intermediate and additional suspension points are required on the Sky Climber Rolling Roof Rig beam. For example: it may be used to reduce the outreach without moving the entire rolling roof rig.
- The Rigging Collar may only be used when precautions have been taken to ensure a shackle, stop bolt or other hardware is placed in the hole at the end of the beam. Locate the Rigging Collar between the rolling roof rig stanchion and the end of the beam.
- Counterweight calculations should be based upon the rolling roof rig position i.e. the Rigging Collar may not be used to reduce outreach with the goal of reducing the number of counterweights required.



**Rigging Collar**

## Beam Tube Instructions

- Follow normal Rolling Roof Rig instructions but use the Beam Tube in place of splice plates, nuts and bolts. Insert Pins in the outermost holes of the beam allowing for assembly without tools.
- Look through the inspection slot to verify that beam is fully inserted into the beam tube. If you can see through to the inspection slot on the opposite side of the beam tube, then the beam is not fully inserted.
- Some beams also feature a label that will be partially visible once inserted into the beam tube. If the green portion of the label is visible but not the red portion, the beam has been properly inserted. If the red portion of the label is visible, the beam has NOT been fully inserted into beam tube.



Beam Tube



Beam insertion label

## Corner Adaptors

A Corner Adapter reduces outreach by moving the fulcrum closer to parapet. It also reduces the quantity of counterweights needed and can eliminate the need for a cable-truss/strongback.

The part number for the Sky Rig Corner Adaptor is 3835-0150. Please contact Sky Climber for more information on the use and installation of this product.



Sky Rig Corner Adapter

# Counterweights

## 16-foot Sky Rig

NO. OF 50LB COUNTERWEIGHTS REQUIRED PER BEAM ASSEMBLY

	OUTREACH - FEET								RATED LOAD OF HOIST (LBS)
	5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	
COUNTER-WEIGHTS (50#)	30	26	22	18	15	12	10	7	750
	40	34	29	24	20	16	13	9	1000
	N/A	N/A	N/A	30	25	20	16	11	1250
	N/A	N/A	N/A	N/A	30	24	19	14	1500
N/A - OUTREACH IS NOT ALLOWED FOR RATED HOIST									

## 24-foot Sky Rig

NO. OF 50LB COUNTERWEIGHTS REQUIRED PER BEAM ASSEMBLY

	OUTREACH - FEET								RATED LOAD OF HOIST (LBS)
	5.0	4.5	4.0	3.5	3.0	2.5	2.0	1.5	
COUNTER-WEIGHTS (50#)	17	15	13	11	9	8	6	5	750
	22	20	17	15	12	10	8	6	1000
	N/A	N/A	N/A	18	15	13	10	7	1250
	N/A	N/A	N/A	N/A	18	15	12	9	1500
N/A - OUTREACH IS NOT ALLOWED FOR RATED HOIST									

## 24-foot Sky Rig WITH Strongback

NO. OF 50LB COUNTERWEIGHTS REQUIRED PER BEAM ASSEMBLY

	OUTREACH - FEET										RATED LOAD OF HOIST (LBS)
	8.0*	7.5*	7.0*	6.5*	6.0	5.5	5.0	4.5	4.0	3.5	
COUNTER-WEIGHTS (50#)	34	30	28	25	22	20	18	15	13	12	750
	N/A	N/A	37	33	30	26	23	20	18	15	1000
	N/A	N/A	N/A	N/A	37	33	29	25	22	19	1250
	N/A	N/A	N/A	N/A	N/A	N/A	35	30	26	23	1500
N/A - OUTREACH IS NOT ALLOWED FOR RATED HOIST											
* OUTREACHES GREATER THAN 6.5FT REQUIRE (2) SPLICE PLATES AT FRONT CONNECTOR, BOLTS, AND LOCKING NUTS											