USER MANUAL

200H LIFT SERIES

Fast Mechanical Lift System

LIT-V-MAN-LFT-200H-BSM

2024
REV 1







BLUESKY
MAST

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200 Heavy Lift Series - User Manual

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200 Heavy Lift Series - Disclaimers and Warranties

DISCLAIMER OF WARRANTIES AND LIABILITY

DO NOT ATTEMPT TO DEPLOY THIS MAST IF YOU ARE NOT EXPERIENCED IN SIMILAR DEVICES

You are responsible for your own safety and survival and that of those persons around the mast. This manual is to be used as an aid and only to be used at your own risk. Nothing will replace good sound judgment when deploying the mast.

The information provided in this manual should be used as a guideline and not absolute fact. Many variables are involved in deploying a mast system such as weather, soil conditions, guying distances, cantilevered payloads, surrounding obstacles, accuracy and precision of guying, etc.

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If you find any mistakes or you can help improve this material, please contact BlueSky Mast via US Mail at:

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Cage Code: 3JWX5

DUNS Number: 137469404

200 Heavy Lift Series - Disclaimers and Warranties

LIMITED TWELVE MONTH WARRANTY

This BLUESKY MAST, INC. equipment is warranted to be free from defects in material and workmanship under normal use and service. BLUESKY MAST, INC. shall repair or replace defective equipment, at no charge, or at its option, refund the purchase price, if the equipment is returned to BLUESKY MAST,INC. not more than twelve (12) months after shipment. Removal or reinstallation of equipment and its transportation shall not be at the cost of BLUESKY MAST, INC. except BLUESKY MAST, INC. shall return repaired or replaced equipment freight prepaid to a continental United States address.

This Warranty shall not apply to equipment which has been repaired or altered in any way so as to affect its stability or durability, or which has been subject to misuse, negligence or accident. This Warranty does not cover equipment which has been impaired by severe weather conditions such as excessive wind, ice, storms, lightning, or other natural occurrences over which BLUESKY MAST, INC. has no control, and this Warranty shall not apply to equipment which has been operated or installed other than in accordance with the instructions furnished by BLUESKY MAST, INC.

Products are manufactured from anodized aluminum in various colors. Color fading and varying shades of color will inevitably occur with exposure to sunlight and environmental conditions and is not considered a defect in the material or product

Claimants under this Warranty shall present their claims along with the defective equipment to BLUESKY MAST, INC. immediately upon failure.

Noncompliance with any part of this claim procedure may invalidate this warranty in whole or in part.

This warranty is expressly in lieu of all other agreements and warranties, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of this warranty. BLUESKY MAST, INC. Neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with the equipment delivered or provided. In no event shall BLUESKY MAST, INC. Be liable for any loss of profits, loss of use, interruption of business, or indirect, special or consequential damages of any kind.

In no event shall BLUESKY MAST, INC. be liable for damages in an amount greater than the purchase price of the equipment. Some states do not allow limitations on how long an implied warranty lasts, or allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

200 Heavy Lift Series - Safety Warnings

IMPORTANT SAFETY PRECAUTIONS

Part I: Power Lines, Lightning and Grounding

- LOOK UP AND LIVE! Before erecting the mast, check for overhead power lines. Never deploy this mast where there is any possibility of direct or indirect contact with a power line. Keep the mast a distance equal to or greater than twice its height away from power lines. This will ensure that the Antenna, masts, guy ropes or cables will not contact power if it falls either during installation or later. Any person touching any part of a mast or even standing near a mast that contacts a power line can be seriously injured or killed.

- BEWARE OF UNDERGROUND POWER LINES! Ground stakes might penetrate underground power lines. Before deploying any ground stakes, be sure to check the area for warnings of buried cables and contact your local power company to verify. Any person touching any part of a mast or even standing near a mast that contacts a power line can be seriously injured or killed.

- Keep guy ropes away from power lines to eliminate the possibility of a power line falling on the guy rope.

- Never touch a mast or structure that you suspect may be accidentally energized electrically.

- Never work with a mast or related structure during electrical storm activity.

- Contrary to popular belief, most lightning injuries and damage do not come from direct lightning strikes. There are several ways that lightning can injure you:

- “Step Potential” is potentially hazardous voltage that can exist on the ground like stepping on a live wire. This results from electrical energy diverted into the ground from lightning striking nearby. It is the most common injury causing lightning effect.

- Flashover is when lightning strikes a nearby object and then jumps to another nearby object. This is usually what injures people standing under trees in an electrical storm.

- Do not stand near the mast, deploy or retract the mast during electrical storm activity.

- Always ground the mast.

200 Heavy Lift Series - Safety Warnings

IMPORTANT SAFETY PRECAUTIONS

Part II: Guy Ropes and Fasteners

- Inspect all guy ropes and fasteners for wear or damage before use. Serious injury or death may occur if a guy rope failure causes a mast to fall.
- Mark guy ropes clearly to prevent personnel from tripping over them. Personnel who trip may suffer injury and may also pull up a guy rope and cause the mast to fall.
- Monitor the tension of the guy ropes to ensure proper tension.
- Ensure that stakes and anchors are secure in the ground before attaching guy ropes. Use extra caution when anchoring guy ropes, especially in sandy or loose soil.
- Never fasten a guy rope over a sharp edge or in a manner that causes abrasion. This may cause guy rope failure. Pad any contacting surfaces if necessary.
- Do not install guy ropes across roadways or other paths of travel. Always clearly mark guy ropes.
- Ensure guy ropes are clear of branches and other obstructions.
- Use only authorized parts. Unapproved substitutes may not be strong enough for the equipment.
- Periodically inspect the mast to ensure that it remains structurally sound and properly installed.
- Never overload the mast or structure. Use ONLY the equipment and accessories in proper quantities as described by the manufacture specifications. Do not use unauthorized equipment or modifications.
- BE CAUTIOUS of ice that may form on the antenna/mast. The area around the antenna/mast should be marked and roped off to avoid falling ice. Special care must be taken when retracting the mast or structure to avoid falling ice.
- Use additional guy ropes for the mast, if heavy ice loading or wind is expected or anticipated.
- Ensure that the wind speed is not excessive during deployment/retraction operations. Maximum safe wind speeds are available from manufacturer for your specific mast.

IMPORTANT SAFETY PRECAUTIONS

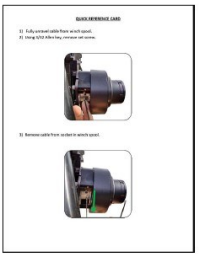
Part III: Winch Cable Inspection and Replacement

Winch Cable Inspection Criteria	
Condition: Cable shows no visible signs of damage or deformation **Action:** Use cable as is	
Condition: Cable exhibits visible kinks or deformations **Action:** Replace cable	
Condition: Cable exhibits fraying and/or broken strands **Action:** Replace cable	
Condition: Cable has broken or is severely damaged and/or frayed **Action:** Replace cable	

200 Heavy Lift Series - Safety Warnings

IMPORTANT SAFETY PRECAUTIONS

Winch Cable Replacement Kit:



WINCH CABLE REPLACEMENT QUICK REFERENCE SHEET
QTY: (1)



SUPPLIED HARDWARE KIT



H-SS-10-32X375
HRDW-SET-SCREW-10/32 x 3/8 SS 18-8 With Vibraitte
QTY: 1



H-WRENCH-ALLEN-3-32
HRDW-WRENCH-ALLEN-3/32-SHORT ARM
QTY: 1

2022

BLUESKY MAST elevating solutions

WEIGHT	0.3 lbs / 0.1 kg
TITLE	WINCH CABLE REPLACEMENT KIT WITH QRS
PART NUMBER	BSMU-K-CABL-RPL-LFT
REV	1
SHT 1 OF 1	

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IMPORTANT SAFETY PRECAUTIONS

Part IV: Wind Conditions

- BlueSky Mast recommends that you do not to attempt to actively deploy in winds that exceed 10 mph with Novice Users, 15 mph with Intermediate Users and 20 mph with Expert Users.
- During windy conditions it will be necessary to incrementally guy the mast as it is being deployed.
- Incremental Guying will add time to the deployment but increase the protection of personnel and equipment.

USE THE CHART BELOW TO HELP DETERMINE WIND SPEED

VISUAL OBSERVATIONS	KM/H	MPH	DEPLOYMENT CONDITIONS
Smoke Rises Vertically	<1	<1	Safe
Wind Direction Shown by Smoke	1-6	1-3	Safe
Wind Felt on Face, Leaves Rustle	7-12	4-7	Safe
Leaves & Twigs in Constant Motion, Wind Extends Light Flag	13-18	8-11	Use Caution
Dust and Loose Paper Blown Freely, Small Branches Move	19-26	12-15	Use Caution
Small Trees Begin to Sway	27-35	16-22	Dangerous Conditions
Large Branches in Motion, Wind Whistles Through Wires	36-44	23-27	Dangerous Conditions
Whole Trees in Motion	45-55	28-34	Dangerous Conditions

200 Heavy Lift Series - Loading and Guying Tutorial

Deployable Payload

A mast installation can be exposed to several types of loads. The physical weight of the instrument and its attachments are referred to as the **payload**. The mast can support much more weight when properly guyed and stabilized but BlueSky Mast will only recommend payloads that are safe to carry during the deployment process. This is called the **deployable load**. The remaining reserve load capacity represents the margin designed to absorb any subsequent environmental load that the mast may encounter. The primary environmental load on a mast is **wind load**.

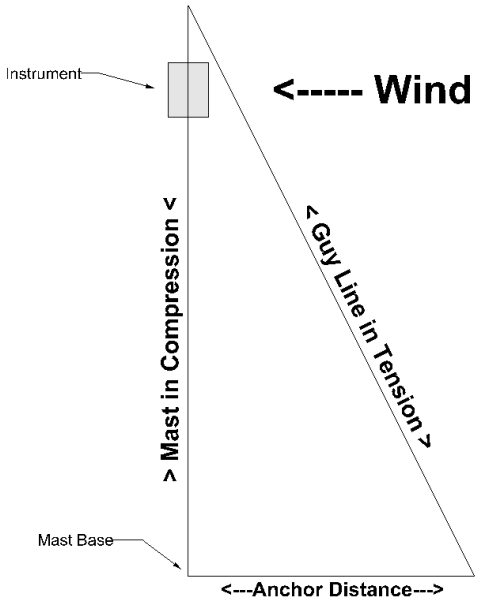
The payload capacity on a BlueSky Mast is governed by the installer's ability to safely elevate the payload to the desired height. As poles are inserted into the tripod and the mast begins to climb, the mast tip has a tendency to lean off-center and away from its position of greatest strength. An iterative process of incremental guying and mast pole elevation may be required to successfully deploy the mast. For best results, please limit your deployment to the height and payload combinations given in the table below.

200 Heavy Mast Model	Height (FT.)	Deployable Load (LBS.)
15 M	46.5 Ft.	20 lbs.
14 M	43.5 Ft.	25 lbs.
13 M	40.5 Ft.	30 lbs.
12 M	37.5 Ft.	35 lbs.
11 M	34.5 Ft.	40 lbs.
10 M	31.5 Ft.	50 lbs.
9M	28.5 Ft.	52.5 lbs.
8 M	25.5 Ft.	55 lbs.
7M	22.5 Ft.	57.5 lbs.
6M	19.5 Ft.	60 lbs.
5M	16.5 Ft.	65 lbs.
4M	13.5 Ft.	70 lbs.
3M	10.5 Ft.	85 lbs.
2M	7.5 Ft.	100 lbs.

Wind Effects

When wind blows on a mast and its instruments, the guy ropes restrict the top of the mast and its instruments from moving off center. The mast's reaction to wind will put tension in the guy line and force the top of the mast downward in compression, the amount of which will vary depending on the anchor distance as described below.

The size and shape of the instruments determine the amount of force they produce in any given wind condition. Don't forget that the mast itself is a surface area exposed to the wind and its wind load will need to be added to the instrument wind load to get the total wind load on the system. The mast wind loads are given in the table at the end of this section and clearly show the benefits of Secondary Guying.



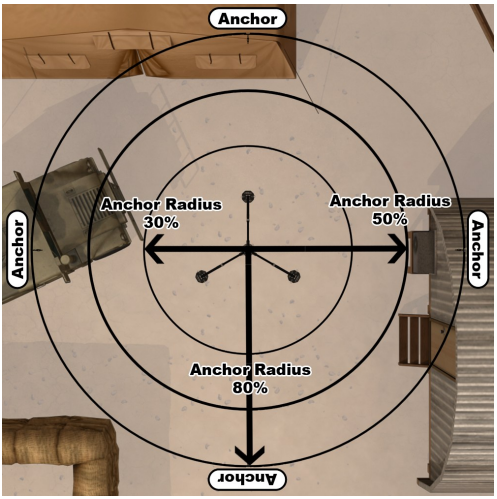
Guying

Guy lines are used to **maintain the position** of the top of the mast directly over the center of the tripod. This is its position of greatest strength, which will maximize the load carrying capacity of the mast in terms of payload as well as wind survivability. When no wind is present, the guy lines remain critical to stabilize the top of the mast and to keep the instrument mounts level.

200 Heavy Lift Series - Loading and Guying Tutorial

Anchor Radius

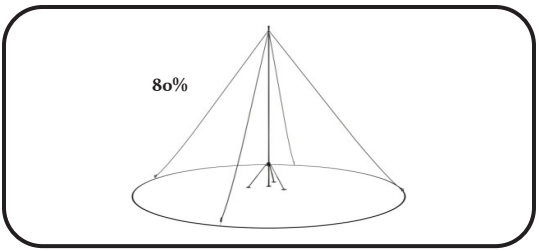
Ideal guying is set with an anchor radius of 80% of the total mast height. Many applications of mast deployments are not able to afford an installation footprint of this size and installers may find it more convenient to place the guy anchors much closer to the mast as shown in the figure to the right. **BlueSky Mast does not recommend configurations utilizing less than 80% guy radius**, but if your site dictates that you must deviate from the recommended configuration it is imperative that the installer is aware of the effects of the reduced anchor radius and its effect on total payload capacity and wind loading.



The angle of pull on the guy line relative to the anchor radius may produce a lever effect increasing the mast compression due to wind loading by a factor of 5 !

Guying Distance (% of Mast Height)	Anchor Radius Factor
10%	10.00
20%	5.00
30%	3.33
40%	2.50
50%	2.00
60%	1.67
70%	1.43
80%	1.25
90%	1.11
100%	1.00

The table at left shows the affect the anchor radius has on the multiplying factors of compressive loads produced on the mast by a horizontal wind force. **Below is the recommended 80% guy radius.**



Primary and Secondary Guy Placement

BlueSky utilizes a 4 guy configuration with a guying distance of 80% the total height of the mast to help minimize the affect wind loading has on the mast. The primary guys are always deployed from the top of the mast and extend out at a 90 degree angle from each other. Primary guy ropes are attached to the top hole of the large guy stake.

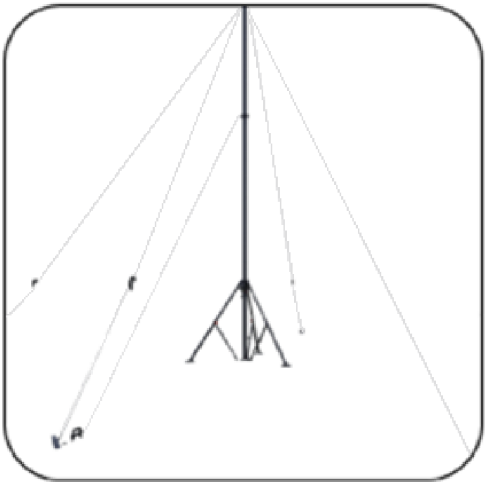
The secondary guys are deployed halfway up the mast. They attach to the mast between the top of the tripod and the primary guy ring. They attach to the bottom hole of the same large guy stakes used by the primary guys.

Primary Guy Placement
(Top Hole of Large Guy Stake)



Secondary Guy Placement
(Bottom Hole of Large Guy Stake)





Guying Distance From the Base of the Mast

If you are unable to utilize the 80% rule then refer to the load characteristics of your mast in the tables following this section to understand the impact to the payload capacity and wind loading of your mast.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

2M 200 Heavy Lift System (7.5 ft)
Primary Guying Only
100 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

2M 200 Heavy Lift System (7.5 ft)
Primary & Secondary Guying
100 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

3M 200 Heavy Lift System (10.5 ft)
Primary Guying Only
85 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

3M 200 Heavy Lift System (10.5 ft)
Primary & Secondary Guying
85 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

4M 200 Heavy Lift System (13.5 ft)
Primary Guying Only
70 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

4M 200 Heavy Lift System (13.5 ft)
Primary & Secondary Guying
70 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

5M 200 Heavy Lift System (16.5 ft)
Primary Guying Only
65 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

5M 200 Heavy Lift System (16.5 ft)
Primary & Secondary Guying
65 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

6M 200 Heavy Lift System (19.5 ft)
Primary Guying Only
60 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

6M 200 Heavy Lift System (19.5 ft)
Primary & Secondary Guying
60 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

7M 200 Heavy Lift System (22.5 ft)
Primary Guying Only
57.5 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

7M 200 Heavy Lift System (22.5 ft)
Primary & Secondary Guying
57.5 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

8M 200 Heavy Lift System (25.5 ft)
Primary Guying Only
55 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

8M 200 Heavy Lift System (25.5 ft)
Primary & Secondary Guying
55 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

9M 200 Heavy Lift System (28.5 ft)
Primary Guying Only
52 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

9M 200 Heavy Lift System (28.5 ft)
Primary & Secondary Guying
52 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

10M 200 Heavy Lift System (31.5 ft)
Primary Guying Only
50 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

10M 200 Heavy Lift System (31.5 ft)
Primary & Secondary Guying
50 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

11M 200 Heavy Lift System (34.5 ft)
Primary Guying Only
40 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

11M 200 Heavy Lift System (34.5 ft)
Primary & Secondary Guying
40 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

12M 200 Heavy Lift System (37.5 ft)
Primary Guying Only
35 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

12M 200 Heavy Lift System (37.5 ft)
Primary & Secondary Guying
35 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

13M 200 Heavy Lift System (40.5 ft)
Primary Guying Only
30 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

13M 200 Heavy Lift System (40.5 ft)
Primary & Secondary Guying
30 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

200 Heavy Lift Series - Load Tables

Fully Operational	Survivable	Mast Failure

14M 200 Heavy Lift System (43.5 ft)
Primary Guying Only
25 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

14M 200 Heavy Lift System (43.5 ft)
Primary & Secondary Guying
25 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational	Survivable	Mast Failure

15M 200 Heavy Lift System (46.5 ft)
Primary Guying Only
20 lbs. Deployed

	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

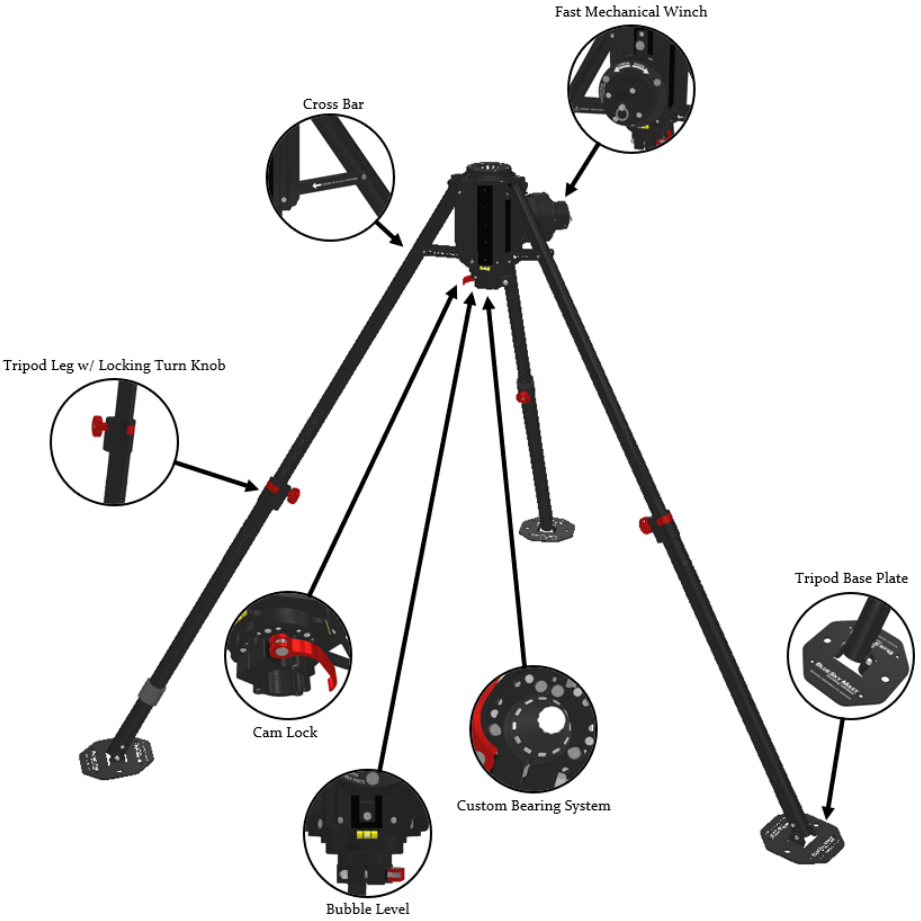
Fully Operational	Survivable	Mast Failure

15M 200 Heavy Lift System (46.5 ft)
Primary & Secondary Guying
20 lbs. Deployed

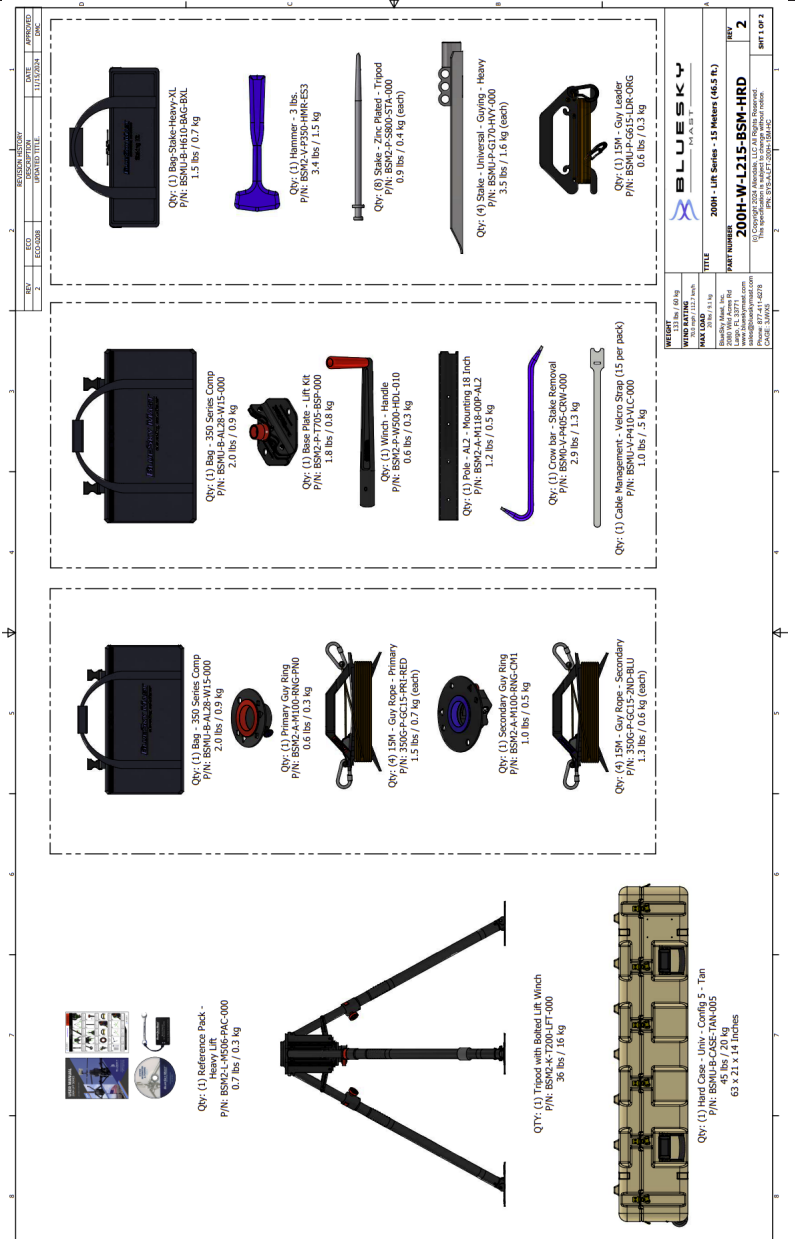
	Wind Speed (mph)	70	90	110
Mast Only	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
1 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq Ft Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Disclaimers - These calculations assume that the tripod and guy stakes have been properly secured and are immoveable and that the loads presented are properly balanced. They are intended to be used as a guide when determining the capabilities of the system and cannot account for all the different forces that can combine to act upon the mast in real world deployments. These calculations are theoretical calculations based on generally accepted principles and guidelines and cannot replace the need for physical validation.

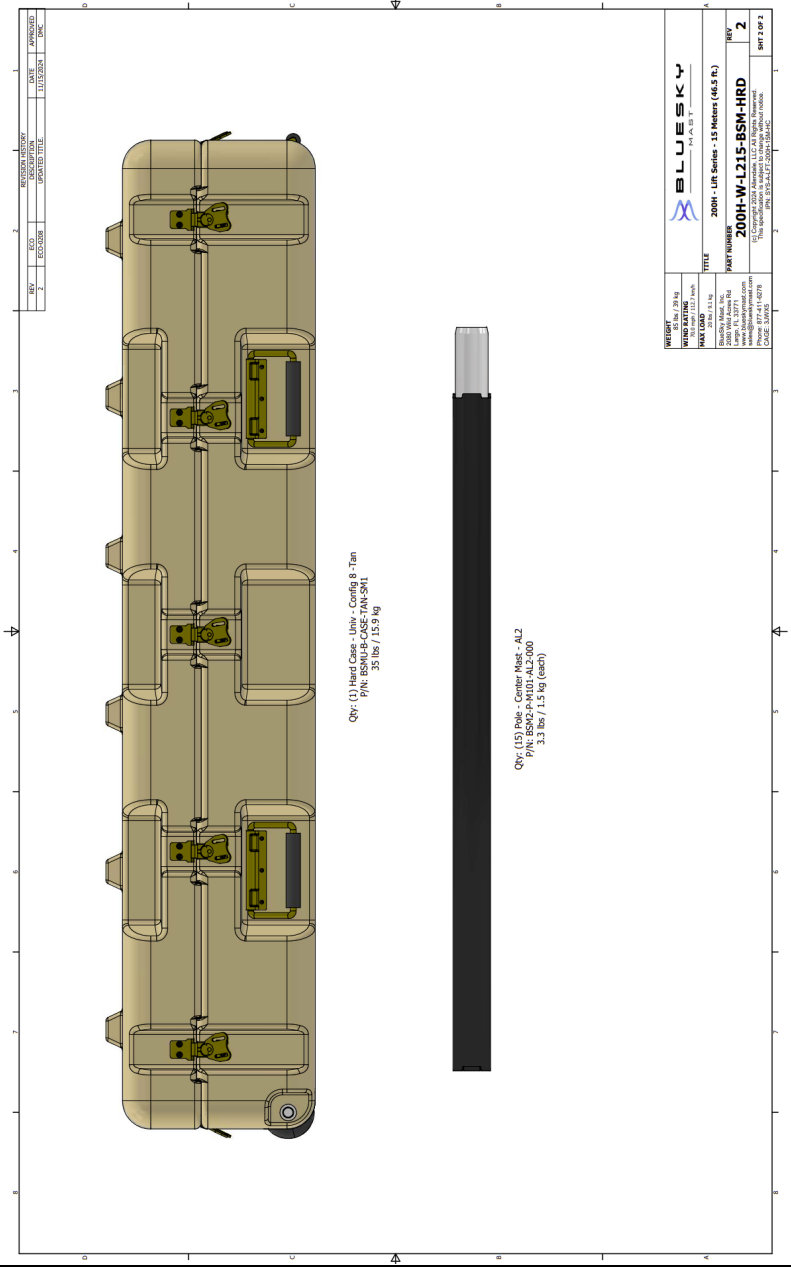
Anatomy of a 200 Heavy - Lift Series Tripod



200 Heavy Lift Series - 15M Hard Case Datasheet (Case #1 of 2)



200 Heavy Lift Series - 15M Hard Case Datasheet (Case #2 of 2)



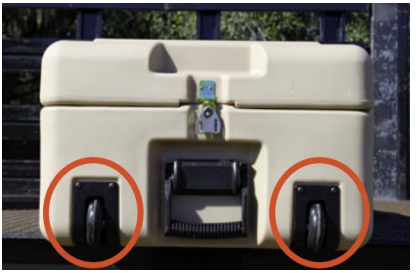
Load / Unload 200 Heavy Lift Series Mast System Case

1



A total of six carry handles on corners and ends

2



Wheels on one end

3



Two-person lift and drag

(lifted weight 76 lbs.)

4



Two-person lift one end onto vehicle / trailer

(lifted weight 76 lbs.)

Load / Unload 200 Heavy Lift Series Mast System Case

5



Two-person lift one end onto vehicle / trailer

6



Two person lift other end

(lifted weight 76 lbs.)

7



Two-person slide case onto vehicle / trailer

8



Case loaded for transport, reverse process for unloading

Deploying the 200 Heavy Lift Series Mast with Primary Guying

(For Models 2 to 10 Meters)

Expert Users - 2 People - 25 Minutes

Novice Users - 2 People - 45 Minutes

1) Inspecting the Site Before Deployment.

A) Make sure the ground where you are deploying is level, clear of debris and is capable of holding the Tripod Stakes and Guy Stakes.

B) Make sure there is enough room to extend your Guy Ropes out to the full length based on your deployment height. BlueSky Mast recommends an 80% guy radius.

⚠ C) SAFETY: Make sure there are no overhead wires, buried power lines, or an unexploded ordinance.

2) Unpack the Wheeling Carry Bag or Hard Case.

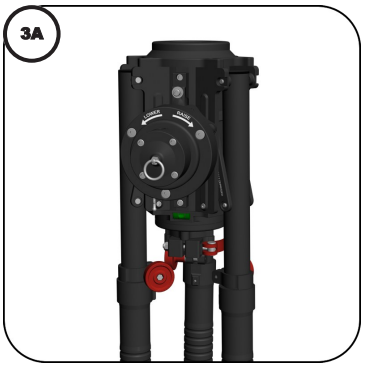
A) Remove the Pole Bag (or Pole Case) and Stake Bag and set them next to the Wheeling Carry Bag or Hard Case.

3) Setting Up and Orienting the Tripod.

A) Remove the Tripod from the Wheeling Bag or Hard Case and stand it up with the Base Plates on the ground.

B) Release the Velcro strap on the Tripod and unfold the Tripod Legs.

C) Verify the cross links on each of the three Tripod Legs are fully deployed by pushing down on them until the sliding pin is resting completely at the bottom of the slot.

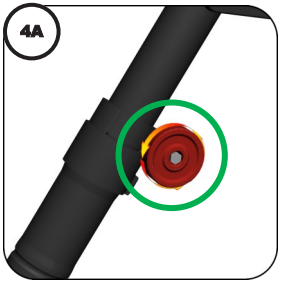


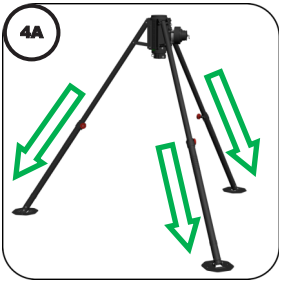


4) Extending the Tripod Legs.

A) One at a time, fully extend the three Tripod Legs by loosening the turn knobs on the Tripod Legs.

B) Once fully extended, lock them in place by tightening the turn knobs on each leg.







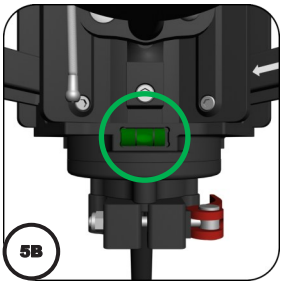
5) Leveling the Tripod.

A) Make sure all Tripod Base Plates are level and flat on the ground.

B) Locate the three Bubble Levels on the Tripod.

C) If any of the bubbles fall beyond the level lines, one at a time, loosen the turn knob on the leg and adjust the length as needed to make the tripod level. Tighten the turn knobs when finished.

⚠ D) SAFETY: Improper leveling can result in excessive leaning which can damage the system and can cause serious bodily harm.

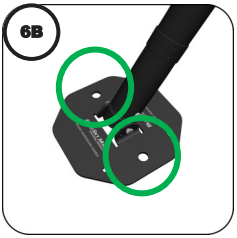


6) Securing the Tripod.

A) Locate the Stake Bag. Remove the Tripod Stakes and Hammer.

B) Drive Tripod Stakes in at a slight angle (opposite directions) through the two holes on all three Tripod Leg Base Plates.









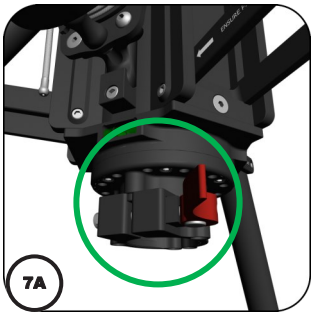
7) Inserting the First Mast Pole.

A) Release the Cam Lock on the bottom of the Tripod.

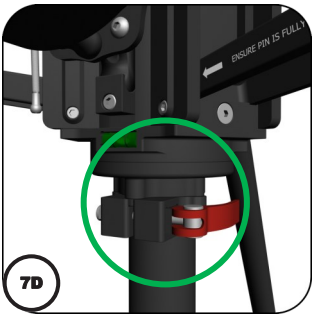
B) Locate a Mast Pole from the Pole Bag (or Pole Case).

C) Insert it up through the bottom of the Tripod with the silver insert oriented upwards until the silver insert of the Mast Pole is visible approximately 4 inches above the top of the Tripod.

D) Lock the Cam Lock to secure the Mast Pole.



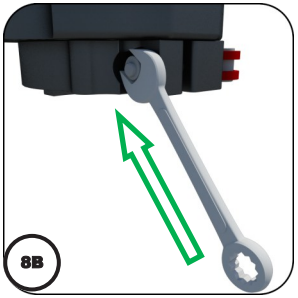


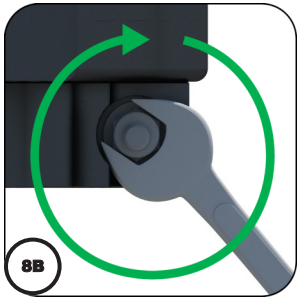


8) Cam Lock Maintenance.

⚠ A) SAFETY: If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.

B) Use the 7/16 wrench provided with the system to turn the nut a quarter turn until slipping no longer occurs.





9) Adding the Mounting Pole.

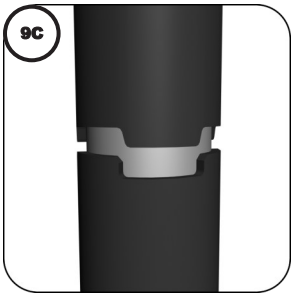
A) Locate the Mounting Pole (it is half the length of a regular Mast Pole).

B) Slide it over the silver insert of the first Mast Pole in the Tripod.

C) Make sure the poles nest together fully and no silver is showing in the seam.



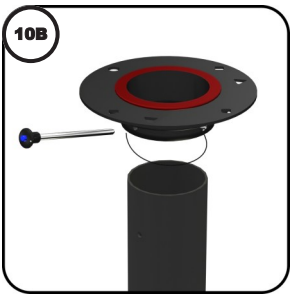




10) Adding the Primary Guy Ring.

A) Locate the **Red Primary Guy Ring**.

B) Remove the push pin and slide it over the top of the Mounting Pole until it rests on top of the Tripod Body. **DO NOT** pin the Red Primary Guy Ring at this time.

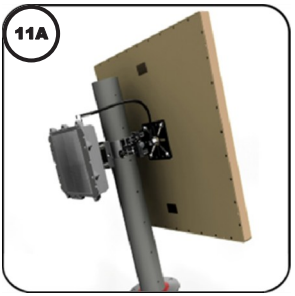


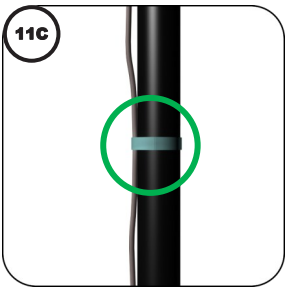
11) Attaching Your Equipment.

A) Attach your equipment to the Mounting Pole.

B) Properly adjust and secure your equipment and connect any cables at this time.

⚠ C) SAFETY: Always secure loose cables to the mast during deployment with Velcro or some form of cable management to reduce strain on the cables and prevent damage to the connections. Loose cables can also cause the mast to lean to one side and affect performance and safety.





12) Attaching the Winch Handle.

A) Locate the Winch Handle.

B) Pull the Quick Release Pin on the outside of the Winch Housing. Slide the Winch Handle into the slot. Release the pin and lock the handle into place.







13) Attaching the Lift Base Plate.

A) Locate the Lift Base Plate.

B) Insert it into the bottom of the first Mast Pole.

C) Align the Lift Base Plate so that the rollers on the plate are in line with the Winch.





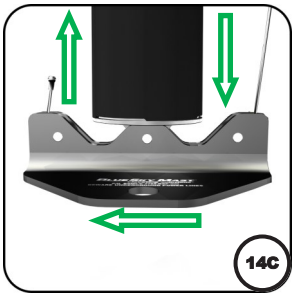
14) Attaching and Securing the Winch Cable.

A) Turn the Winch Handle counter-clockwise paying out enough cable to go through the pulleys on the Lift Base Plate.

B) Make sure the cable extends directly from the bottom left side of the winch reel. **DO NOT** let the cable loop over the spacer, it must hang freely from the Winch.

C) Pass the end of the cable with the Ball Stop through the bottom of the two rollers on the Lift Base Plate.



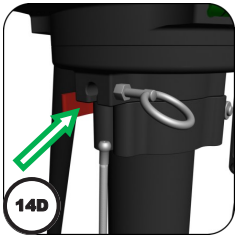


D) Locate the Ball Stop Holder located on the bottom of the Tripod body, opposite the Winch.

E) Secure the Ball Stop by pulling the pin on the Ball Stop Holder and guide the Ball Stop into place.

⚠ F) SAFETY: After releasing the pull pin on the Ball Stop Holder, tug on the cable to make sure it is securely in place.

G) Remove the slack in the cable by cranking the Winch Handle clockwise until the Lift Base Plate is seated securely in the bottom of the first Mast Pole.





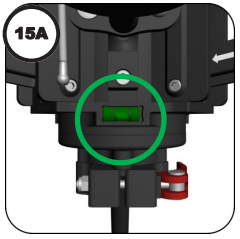


15) Confirm the Tripod is Level and Secured.

A) If any of the bubbles fall beyond the level lines, one at a time, loosen the turn knob on the Tripod Leg and adjust the length as needed to make the Tripod level.

B) Fully tighten the Tripod Leg turn knobs.

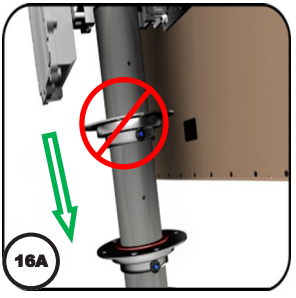
⚠ C) SAFETY: Never adjust the Tripod Leg turn knobs during or after deployment of the Center Mast Poles.

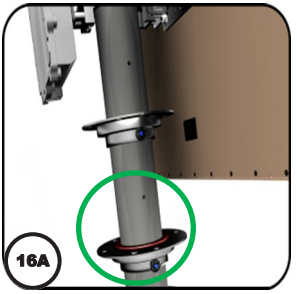




16) Securing the Primary Guy Ring.

A) Pin the Red Primary Guy Ring to the Mounting Pole below your equipment. Make sure to allow enough room for the Primary Guys to be deployed without interference.



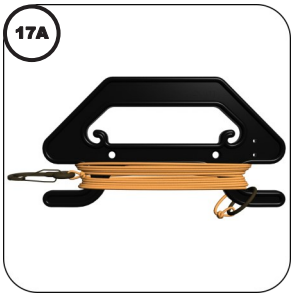


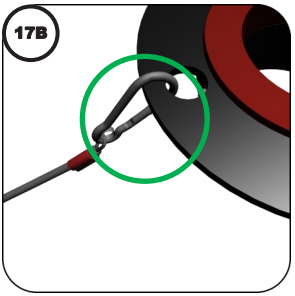
17) Deploy Primary Guying - 2 ppl (4 Guy Configuration).

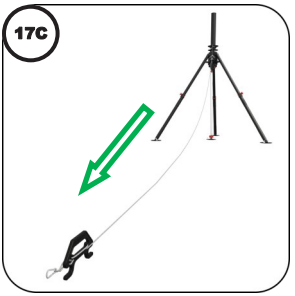
A) PERSON #1 - Locate the ORANGE GUY LEADER with Orange Guy Rope.

B) Clip the end into the Round Hole on the Red Primary Guy Ring.

C) Walk away from the mast while unwinding the guy rope until you reach the meter mark on the guy leader (the meter mark will correspond to your system mast height 2M, 3M, 4M etc.).







D) PERSON #2 - Locate the 4 Guy Stakes and Hammer and follow Person #1.



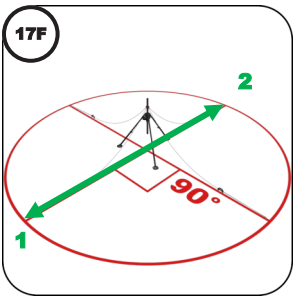
17) Deploy Primary Guying - Continued...

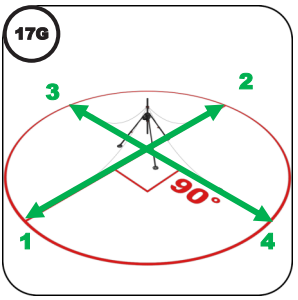
E) Guy Stake #1 - Align yourself such that you are facing the side of the tripod that is opposite of the winch. At the meter mark on the Guy Leader, drive a stake into the ground at an angle.

F) Guy Stake #2—make sure it is staked directly opposite and inline with Guy Stake #1 at the meter mark on the Guy Leader.

G) Repeat this process until all 4 Guy Stakes have been deployed 90 degrees apart.



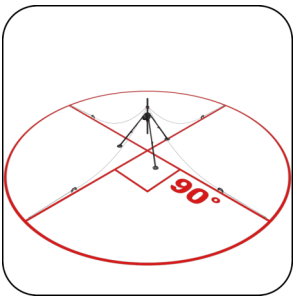




17) Deploy Primary Guying (I DO NOT HAVE A GUY LEADER).

NOTE: If you have lost or do not have a GUY LEADER to mark your guy stakes, start at the center of the tripod and take one NORMAL step per meter of system height away from the mast. Do not exaggerate your steps.

EXAMPLE: 15m = 15 NORMAL steps. Person #1 should be the only person doing this to ensure each of the 4 guy stakes are deployed at similar distances.

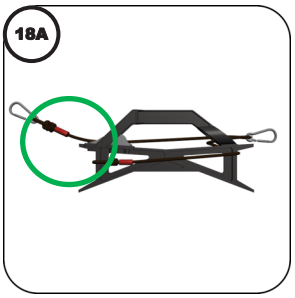


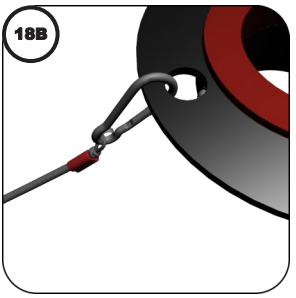
18) Primary Guying - Deploying the 1st Primary Guy Rope.

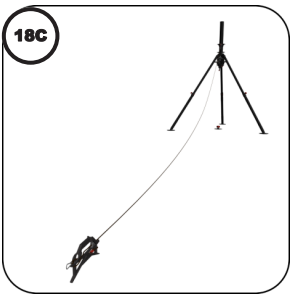
A) Locate the 4 Primary Guy Ropes with red tabs next to the guy clip.

B) Remove the Guy Leader, wrap it around the handle, and then stow it in the Stake Bag. Clip the first Primary Guy Rope to the round hole on the Primary Guy Ring. Secure the carabiner by twisting the threaded cover over the clip to prevent the carabiner from unclipping.

C) Unwind the Guy Rope from the Guy Handle while walking away from the mast and towards the first Guy Stake.

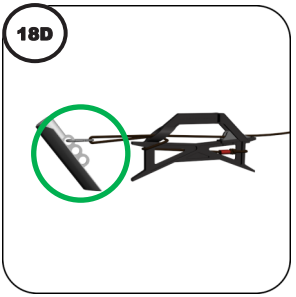


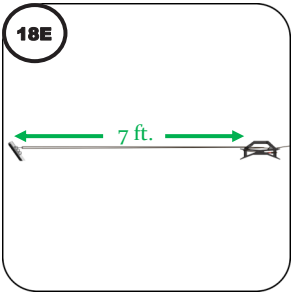




D) Make sure to unwind all of the guy rope off the guy handle and clip the Primary Guy Rope to the top hole of the Guy Stake. Secure the carabiner by twisting the threaded cover over the clip to prevent the carabiner from unclipping.

E) **IMPORTANT:** Slide the guy handle towards the mast approx. 7 feet. This will help to prepare you for incremental guying.



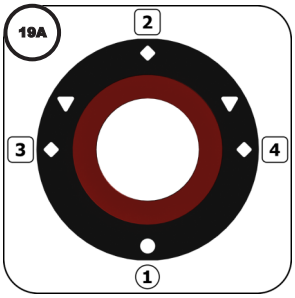


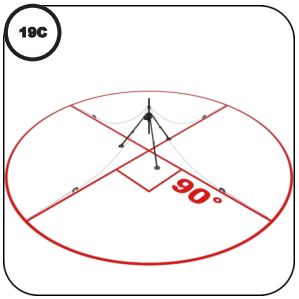
19) Primary Guying - Deploying the Remaining Primary Guy Ropes.

A) Attach the stainless steel clip on the free end of the Primary Guy Ropes to the remaining **Square Holes on the Primary Guy Ring**.

B) Repeat the process outlined in step 18 until all 4 guy ropes have been deployed.

C) When finished, the Primary Ropes should be deployed 90 degrees from each other.





20) Raising the First Mast Pole.

A) Make sure that the Winch Cable is taught and the Lift Base Plate is secure in the bottom of the first Mast Pole.

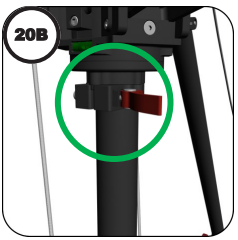
B) Release the Cam Lock on the bottom of the Tripod.

C) Raise the first Mast Pole by cranking the Winch Handle clockwise until the bottom of the first Mast Pole is approximately 4 inches from the bottom of the Cam Lock.

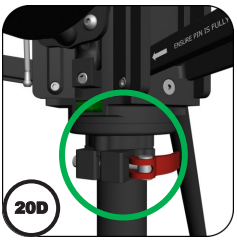
D) Secure the first Mast Pole by locking the Cam Lock on the Tripod.

⚠ E) SAFETY: When raising mast poles, always ensure that there is approximately 4 inches of the pole visible beneath the Cam Lock before securing it.









21) Lowering the Lift Base Plate to the Ground.

⚠ A) SAFETY: Make sure the Cam Lock is locked before lowering the lift base plate.

B) Slowly begin lowering the Lift Base Plate by turning the winch handle counter-clockwise making sure that the Mast Poles do not begin to move. Nudge the Lift Base Plate to unseat it from the pole if necessary.

⚠ C) SAFETY: If slipping occurs check that the Cam Lock is locked. If it is locked, refer to the "Cam Lock Maintenance" in Step 8.





22) Inserting the Center Mast Pole.

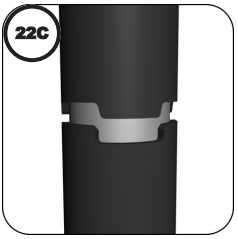
A) Locate a Center Mast Pole (with the silver insert) in the Pole Bag (or Pole Case) and insert the bottom of the Center Mast Pole onto the tapered cone of the Lift Base Plate.

B) **THIS IS A ONE PERSON OPERATION** - Slowly crank the winch handle clockwise with one hand while using the other hand to gently guide the silver insert of the Center Mast Pole into the bottom of the already inserted Mast Pole.

C) Make sure the poles nest together fully and no silver is showing in the seam.





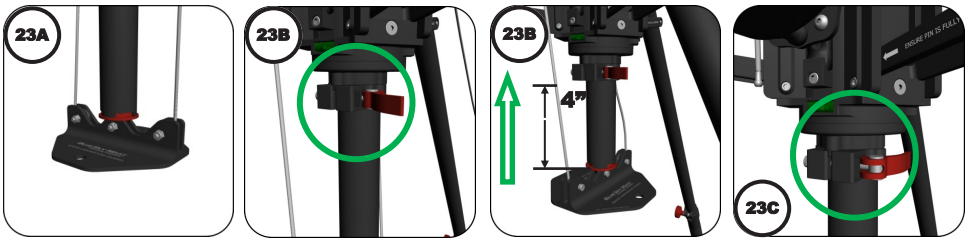


23) Lifting the Center Mast Pole.

A) Make sure that the Winch Cable is taut and straight. If the Winch Cable has become slightly twisted then tap the Lift Base Plate lightly with your foot to straighten out the cable.

B) Release the Cam Lock and raise the Center Mast Pole until the bottom is approximately four inches from the bottom of the tripod.

C) Lock the Cam Lock on the tripod.



Continue to Raise the Mast Poles,

Incremental Guying may be Required

HELPFUL HINTS:

Guide the cable on the winch to avoid stack up and jumping

Secure all cables using the Velcro Straps

Always monitor your Guy Wires

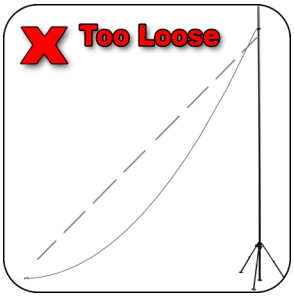
Incremental Guying - Why is it Important?

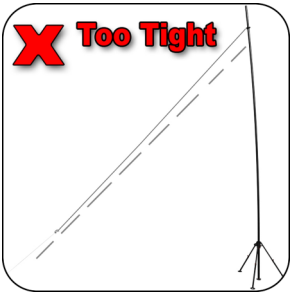
Heavy loads or windy conditions can exert extra force on the center mast poles during deployment causing them to bind in the tripod and create potentially unsafe conditions. Incremental Guying is used when the mast begins to lean and is no longer straight and perpendicular.

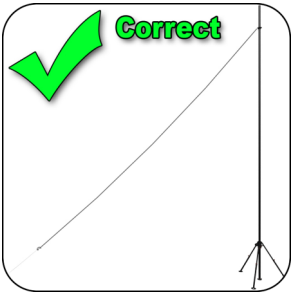
Incremental guying may be required when less than two people are available to hold the primary or secondary guy ropes during deployment with heavy loads or high winds.

Excessive leaning during deployment is an indicator that incremental guying is required. When these conditions exist, it will be necessary to incrementally guy the mast during deployment before reaching the desired height. Incremental guying will add time to the deployment but will ensure the safety of both personnel and equipment.

Be sure when adjusting the amount of tension on the guy ropes not to over tighten the guy ropes. This puts significant downward pressure on the mast. See the diagram below for reference on how guy ropes and the mast should look when correctly deployed.







HELPFUL HINTS:

Guide the cable on the winch to avoid stack up and jumping

Secure all cables using the Velcro Straps

Always monitor your Guy Wires

24) Incremental Guying - 2 ppl.

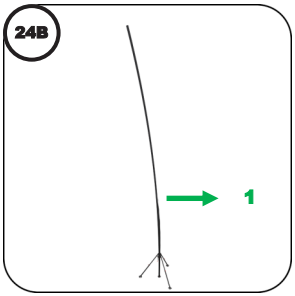
A) Once the mast begins to lean or the Primary Guy Ropes go taut, then stop cranking the Winch and lock the Cam Lock.

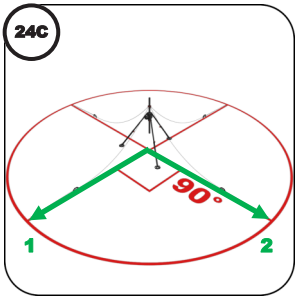
B) PERSON #1 should go to the Guy Rope opposite the direction the Mast is leaning.

C) PERSON #2 should go to the guy rope that is 90 degrees from person #1.

D) To adjust the Guy Rope, hold the rope in front of the guy handle and slide the handle forward to tighten or use your finger to release the rope from the cleat to slide the handle back and loosen.

E) Adjust all 4 Primary Guy Ropes until the Mast is straight and perpendicular.







F) Now loosen the primary guy ropes (**based on the length of the pole below the cam lock**). See examples below. If the length of the pole under the cam lock is 1 foot - slide the handle back 1 foot on each of the 4 primary guy ropes. This will allow you enough room to raise the mast 1 foot and prepare for the next mast pole.







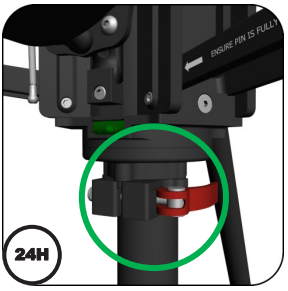
24) Incremental Guying - Continued...

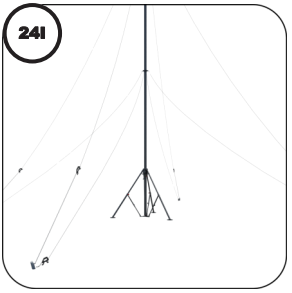
G) Release the Cam Lock and raise the mast until approximately four inches are showing under the Cam Lock.

H) Lock the Cam Lock.

I) Make sure all 4 Primary Guy Ropes are taut and the Mast is straight.







J) Lower the Lift Base Plate to the ground and insert another Mast Pole.

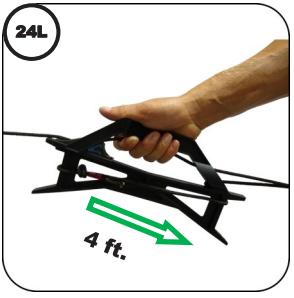
K) Raise the Mast Pole until the castle cuts nest together.

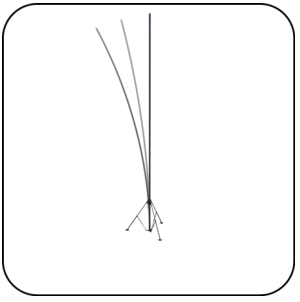
L) Now adjust all 4 Primary Guy Ropes by sliding the handle back approx. 4 feet.

M) This will allow you enough slack to add another Mast Pole.

NOTE: The mast will lean, but will straighten up as you raise the next mast pole.







Repeat the process outlined in step # 24 until you have reached the last center mast pole.

25) Deploying the Last Center Mast Pole.

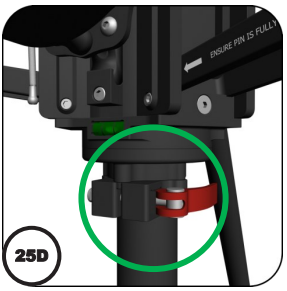
A) Insert the bottom of the last Mast Pole onto the Lift Base Plate.

B) Raise the Mast Pole until it nests into the previous Mast Pole.

C) Release the Cam Lock and slowly lower the Mast Pole to the ground.

D) Lock the Cam Lock.



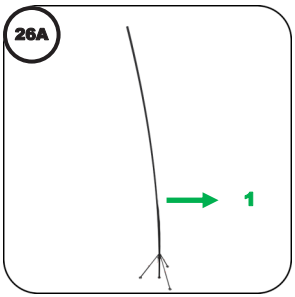


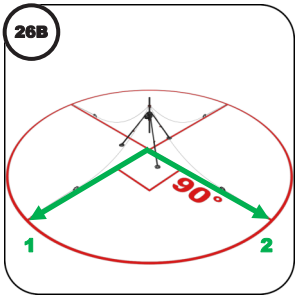
26) Adjusting the Primary Guy Ropes (2 ppl).

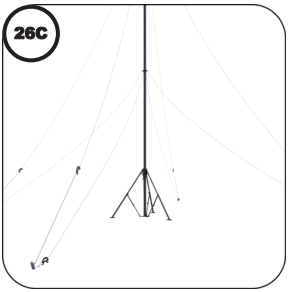
A) If the Mast is leaning, person #1 should go to the Guy Rope opposite the lean.

B) Person #2 should go to the Guy Rope that is 90 degrees from person #1. This will allow you to see how far each Guy Rope needs to be adjusted to get the Mast straight and perpendicular. Rotate to the other Guy Ropes to continue adjustment.

C) It may take a couple rotations on the Guy Ropes to get the Mast straight and perpendicular.

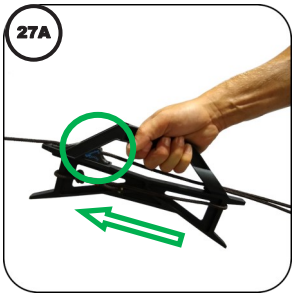






27) Adjust and Lock the Primary Guy Ropes.

A) Lock the Primary Guy Ropes by holding the rope in front of the handle and sliding the handle slowly towards the Mast allowing the rope to settle into the cleat which will lock the rope into position.

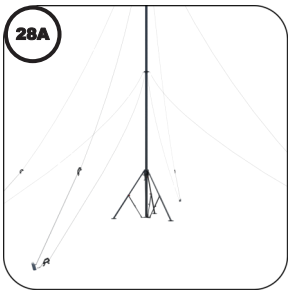


28) Stake the Lift Base Plate.

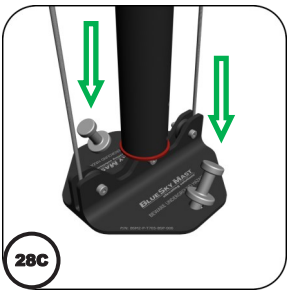
A) Make sure the Mast is straight and perpendicular and the Primary and Secondary Guy Ropes are adjusted and locked.

B) Using your foot - gently tap on the Mast Pole to help relevel the Mast (check bubble levels).

C) Drive two Tripod Stakes at opposite angles into the Lift Base Plate to secure it.





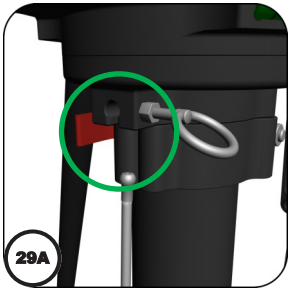


29) Securing the Winch and Winch Cable

A) Remove the Ball Stop from the Ball Stop Holder.

B) Wind the free cable onto the Winch and secure the Ball Stop on the Winch.

C) Remove the Winch Handle and place it back into its carry bag.







30) Deploy the Surface Wire Grounding Kit. (Optional)

A) The BlueSky Surface Wire Grounding Kit (additional accessory) can be deployed at this time if available when lightning or static discharge is a safety concern.



31) Stow the Equipment and Secure the Area.

A) Police the area for any loose tools or equipment that may have been left in the field during deployment.

B) Stow the Wheeling Carry Bag or Hard Cases in a safe place for easy retrieval.

Lowering / Recovering the 200 Heavy Lift Series Mast with Primary Guying

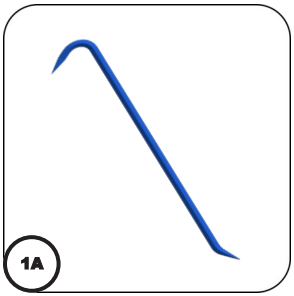
(For Models 2 to 10 Meters)

Expert Users - 2 People - 25 Minutes

Novice Users - 2 People - 45 Minutes

1) Removing the Lift Base Plate Stakes.

A) Locate the Crow Bar included with the system and remove the two stakes from the Lift Base Plate.

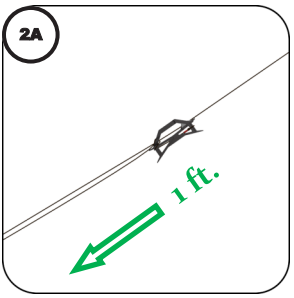




2) Loosening the Primary Guy Ropes.

A) Unlock the Primary Guy Ropes and slide the Handle away from the Mast by approximately ONE FOOT.

B) **DO NOT** loosen the guy ropes more than ONE FOOT.
One foot is all you need to raise the Mast and remove the first Mast Pole.



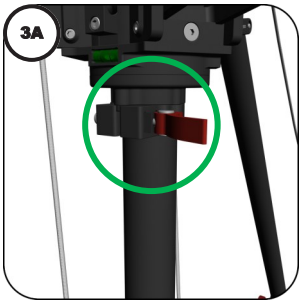
3) Raising the Mast Pole.

A) Re-attach the Winch Handle and Winch Cable per Deployment steps 12 and 14.

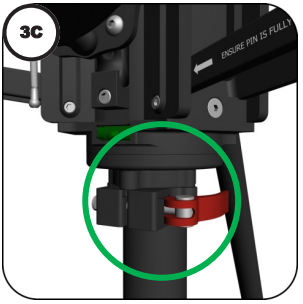
B) Release the Cam Lock.

C) Raise the mast approximately one foot by **SLOWLY** turning the Winch Handle clockwise until approximately four inches of the next mast pole are showing below the Cam Lock.

D) Lock the Cam Lock.







4) Removing the Mast Pole.

⚠ A) SAFETY: Make sure the Cam Lock is engaged before lowering the Lift Base Plate.

B) Lower the Mast Pole to the ground by **SLOWLY** turning the Winch Handle counter -clockwise until the Lift Base Plate rests firmly on the ground. Gently guide the Mast Pole with your hand.

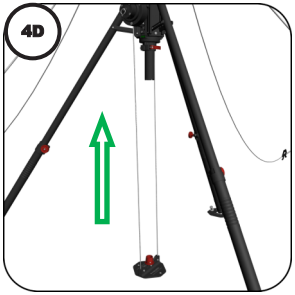




4) Removing the Mast Pole - Continued...

C) Step on the lift base plate, remove the Mast Pole and stow it in the Pole Bag (or Pole Case).

D) Raise the Lift Base Plate until it nests firmly into the bottom of the next Center Mast Pole and the cable is straight and taut.





5) Lowering the Mast - Removing the Next Center Mast Pole.

A) Release the Cam Lock and **SLOWLY** lower the mast until approximately four inches of the next mast pole are showing below the Cam Lock. The mast will begin to lean.

B) Lock the Cam Lock, remove the Mast Pole and store it in the Pole Bag (or Pole Case).

C) Raise the Lift Base Plate until it nests firmly into the next Mast Pole.

D) ***SEE NEXT STEP - ADJUSTING THE PRIMARY GUY ROPES.***







200 Heavy Lift Series - Lowering/Recovery (Primary Guying)

Incremental Guying is **MANDATORY** when lowering the first 3 - 5 center mast poles.

6) Adjust the 4 Primary Guy Ropes - 2 ppl.

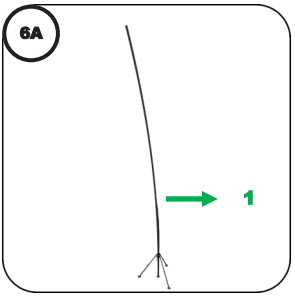
A) PERSON #1 should go to the Guy Rope opposite the direction the Mast is leaning.

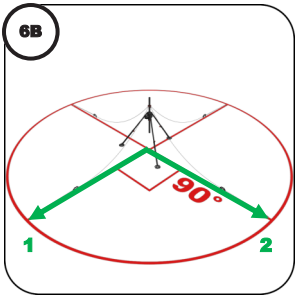
B) PERSON #2 should go to the Guy Rope that is 90 degrees from person #1.

C) Adjust the Primary Guy Ropes by holding the rope in front of the guy handle and sliding the handle forward to tighten.

D) Adjust all 4 Primary Guy Ropes until the mast is straight and perpendicular.

E) REPEAT STEPS 5 & 6 UNTIL YOU REACH THE PRIMARY GUY RING.



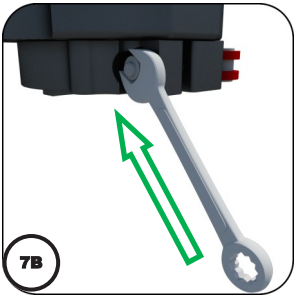




7) Cam Lock Maintenance.

⚠ A) SAFETY: If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.

B) Use the 7/16 wrench provided with the system to turn the nut a quarter turn until slipping no longer occurs.

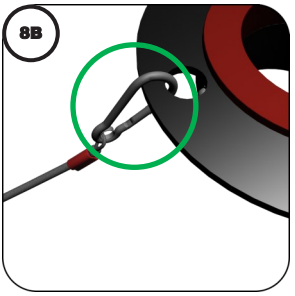




8) Removing the Primary Guy Ropes.

A) Continue lowering the Mast until the Red Primary Guy Ring is easily within reach.

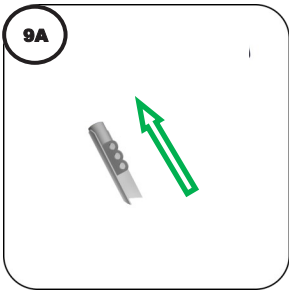
B) Disconnect the Primary Guy Ropes, pull in all the slack and wind all of the rope onto the handle and place all 4 into their carry bag.



9) Removing the Guy Stakes.

A) Use the Hammer to tap each side of the Guy Stakes back and forth to loosen and remove the stakes.

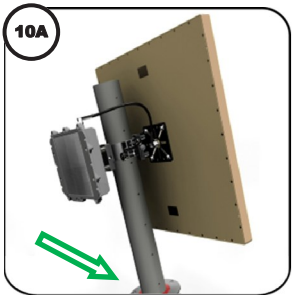
B) Place the stakes back into the Stake Bag.



10) Remove and Stow Devices and Guy Ring.

A) Remove all devices and accessories from the Mounting Pole.

B) Remove the Red Primary Guy Ring and stow it in its carry bag.



11) Removing the Remaining Equipment.

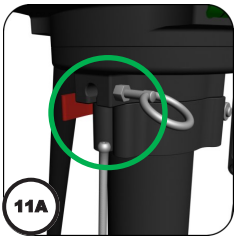
A) Release the Winch Cable from the Ball Stop Holder and wind the cable back onto the Winch and stow the Handle and Lift Base Plate in their carry bag.

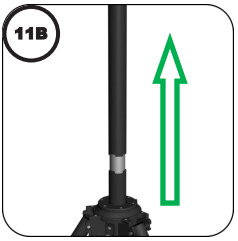
B) Release the Cam Lock and place the Mast Pole and Mounting Pole into the Pole Bag (or Pole Case).

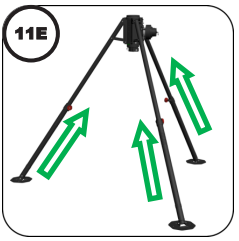
C) Lock the Cam Lock.

D) Remove the remaining Tripod Stakes and put them back in the Stake Kit Bag.

E) Collapse the extended Tripod Legs and tighten the turn knobs.







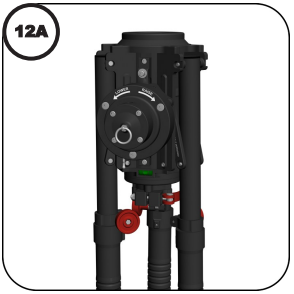


12) Collapse and Stow the Tripod.

A. One at a time push each Tripod Leg inward.

⚠ **B. SAFETY: PINCHING HAZARD - When collapsing the tripod, DO NOT put your fingers in the cross links.**

C. Wrap Velcro strap around the stowed Tripod Legs.



13) Stow Loose Gear and Police the Area.

A) Stow any loose gear. SEE NEXT PAGE “Stowing & Packing the System” Diagram for further instructions.

200 Heavy Lift Series - Stowing and Packing the System

10M System - Soft Case



1. Place the Tripod in the Wheeling Carry Bag

A. Place lift tripod in the bag with the winch positioned on the left.

B. Rotate the top leg so that the base plate is vertical.

C. Slide the tripod down to the bottom of the bag so that the base plates touch the bottom.

2. Place the Small Items inside the Wheeling Carry Bag

A. Place the mounting pole, lift base plate, winch handle, zip ties and reference pack into the blue pocket.

B. Place the 4 guy ropes and guy ring in the red pocket.

C. Place the crowbar in the green pocket.

3. Place the Staking Kit Bag in the Wheeling Cary Bag

A. Place the 4 guy stakes, 8 tripod stakes, guy leader and the hammer in the staking kit bag.

B. Place the staking kit bag between the legs of the tripod.

4. Place the Pole Bag in the Wheeling Carry Bag

A. Place the center mast poles in the Pole Bag.

B. Place the pole bag in the wheeling carry bag on the left side of the tripod.

5. Secure the Wheeling Carry Bag

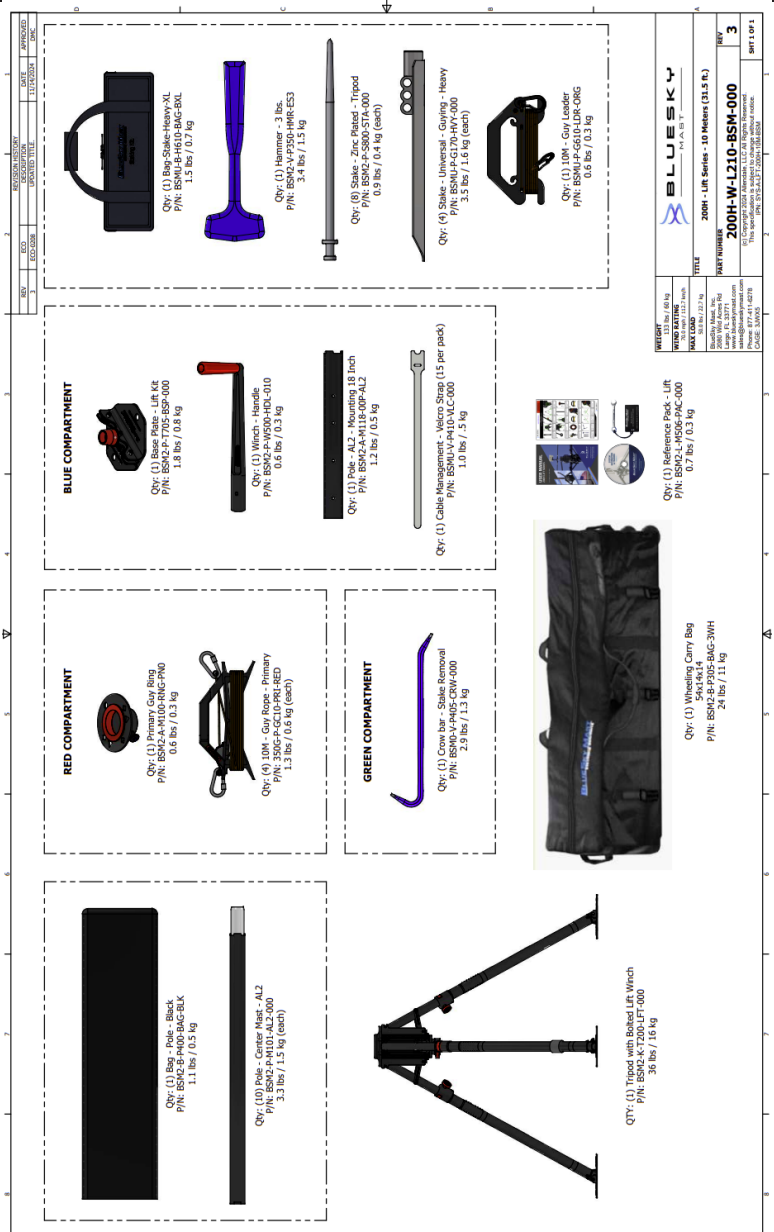
A. Use the two straps on the inside of the bag to secure the tripod, pole bag and stake bag.

B. Place any other ancillary devices in the bag at this time.

C. Do not overload the bag or damage may occur.

D. Zip up the main outside zipper and secure the 3 straps on the outside of the bag.

200 Heavy Lift Series - Stowing and Packing the System



Deploying the 200 Heavy Lift Series Mast with Primary and Secondary Guying

(For Models 2 to 15 Meters)

Expert Users - 2 People - 25 Minutes

Novice Users - 2 People - 45 Minutes

1) Inspecting the Site Before Deployment.

A) Make sure the ground where you are deploying is level, clear of debris and is capable of holding the Tripod Stakes and Guy Stakes.

B) Make sure there is enough room to extend your Guy Ropes out to the full length based on your deployment height. BlueSky Mast recommends an 80% guy radius.

⚠ C) SAFETY: Make sure there are no overhead wires, buried power lines, or an unexploded ordinance.

2) Unpack the Wheeling Carry Bag or Hard Case.

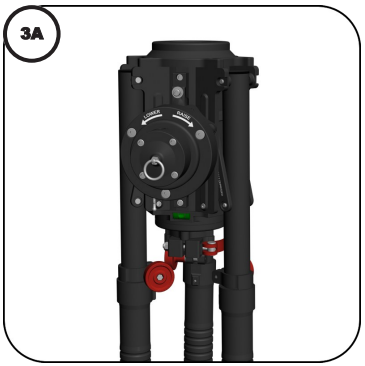
A) Remove the Pole Bag (or Pole Case) and Stake Bag and set them next to the Wheeling Carry Bag or Hard Case.

3) Setting Up and Orienting the Tripod.

A) Remove the Tripod from the Wheeling Bag or Hard Case and stand it up with the Base Plates on the ground.

B) Release the Velcro strap on the Tripod and unfold the Tripod Legs.

C) Verify the cross links on each of the three Tripod Legs are fully deployed by pushing down on them until the sliding pin is resting completely at the bottom of the slot.

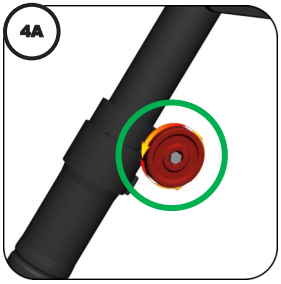


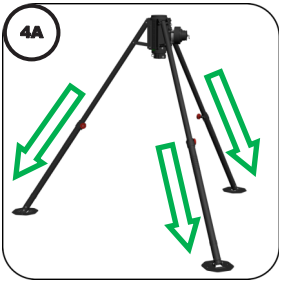


4) Extending the Tripod Legs.

A) One at a time, fully extend the three Tripod Legs by loosening the turn knobs on the Tripod Legs.

B) Once fully extended, lock them in place by tightening the turn knobs on each leg.







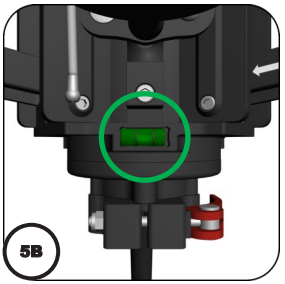
5) Leveling the Tripod.

A) Make sure all Tripod Base Plates are level and flat on the ground.

B) Locate the three Bubble Levels on the Tripod.

C) If any of the bubbles fall beyond the level lines, one at a time, loosen the turn knob on the leg and adjust the length as needed to make the tripod level. Tighten the turn knobs when finished.

⚠ D) SAFETY: Improper leveling can result in excessive leaning which can damage the system and can cause serious bodily harm.

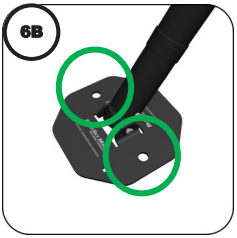


6) Securing the Tripod.

A) Locate the Stake Bag. Remove the Tripod Stakes and Hammer.

B) Drive Tripod Stakes in at a slight angle (opposite directions) through the two holes on all three Tripod Leg Base Plates.









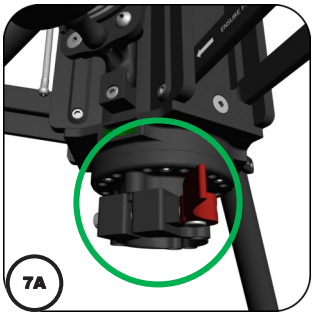
7) Inserting the First Mast Pole.

A) Release the Cam Lock on the bottom of the Tripod.

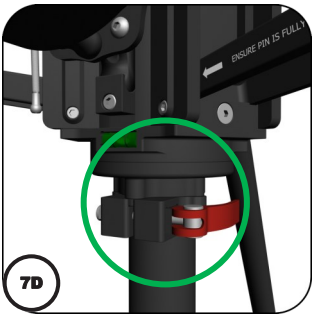
B) Locate a Mast Pole from the Pole Bag (or Pole Case).

C) Insert it up through the bottom of the Tripod with the silver insert oriented upwards until the silver insert of the Mast Pole is visible approximately 4 inches above the top of the Tripod.

D) Lock the Cam Lock to secure the Mast Pole.



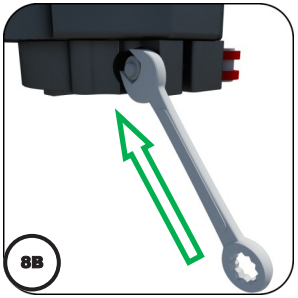


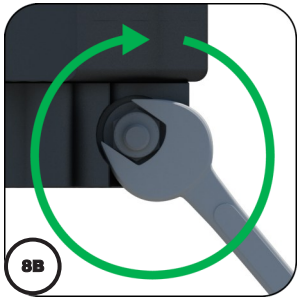


8) Cam Lock Maintenance.

⚠ A) SAFETY: If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.

B) Use the 7/16 wrench provided with the system to turn the nut a quarter turn until slipping no longer occurs.





9) Adding the Mounting Pole.

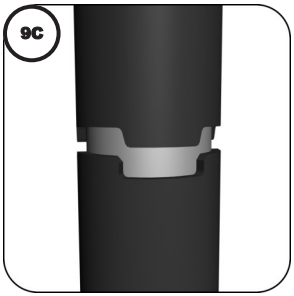
A) Locate the Mounting Pole (it is half the length of a regular Mast Pole).

B) Slide it over the silver insert of the first Mast Pole in the Tripod.

C) Make sure the poles nest together fully and no silver is showing in the seam.



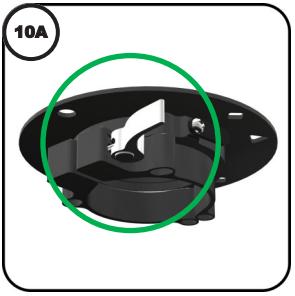




10) Adding the Primary and Secondary Guy Ring.

A) Locate the **Blue Secondary Guy Ring**.

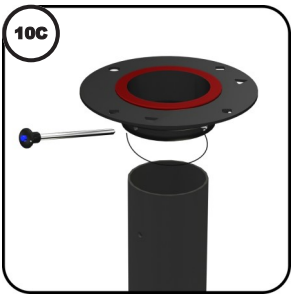
B) Release the Cam Lock on the Blue Secondary Guy Ring and slide it over the top of the Mounting Pole until it rests on top of the Tripod. **DO NOT** lock it into place at this time.





C) Locate the **Red Primary Guy Ring**.

D) Remove the push pin and slide it over the top of the Mounting Pole until it rests on top of the Blue Secondary Guy Ring. **DO NOT** pin the Red Primary Guy Ring at this time.



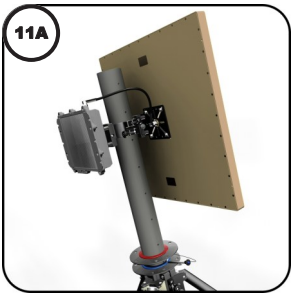


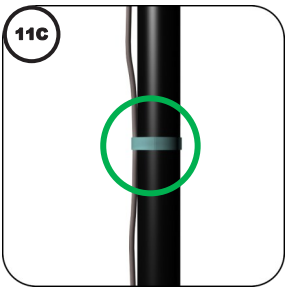
11) Attaching Your Equipment.

A) Attach your equipment to the Mounting Pole.

B) Properly adjust and secure your equipment and connect any cables at this time.

⚠ C) SAFETY: Always secure loose cables to the mast during deployment with Velcro or some form of cable management to reduce strain on the cables and prevent damage to the connections. Loose cables can also cause the mast to lean to one side and affect performance and safety.





12) Attaching the Winch Handle.

A) Locate the Winch Handle.

B) Pull the Quick Release Pin on the outside of the Winch Housing. Slide the Winch Handle into the slot. Release the pin and lock the handle into place.







13) Attaching the Lift Base Plate.

A) Locate the Lift Base Plate.

B) Insert it into the bottom of the first Mast Pole.

C) Align the Lift Base Plate so that the rollers on the plate are in line with the Winch.





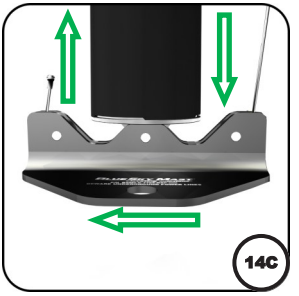
14) Attaching and Securing the Winch Cable.

A) Turn the Winch Handle counter-clockwise paying out enough cable to go through the pulleys on the Lift Base Plate.

B) Make sure the cable extends directly from the bottom left side of the winch reel. **DO NOT** let the cable loop over the spacer, it must hang freely from the Winch.

C) Pass the end of the cable with the Ball Stop through the bottom of the two rollers on the Lift Base Plate.





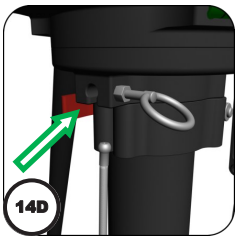
14) Attaching and Securing the Winch Cable - Continued...

D) Locate the Ball Stop Holder located on the bottom of the Tripod body, opposite the Winch.

E) Secure the Ball Stop by pulling the pin on the Ball Stop Holder and guide the Ball Stop into place.

⚠ F) SAFETY: After releasing the pull pin on the Ball Stop Holder, tug on the cable to make sure it is securely in place.

G) Remove the slack in the cable by cranking the Winch Handle clockwise until the Lift Base Plate is seated securely in the bottom of the first Mast Pole.





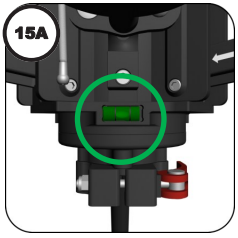


15) Confirm the Tripod is Level and Secured.

A) If any of the bubbles fall beyond the level lines, one at a time, loosen the turn knob on the Tripod Leg and adjust the length as needed to make the Tripod level.

B) Fully tighten the Tripod Leg turn knobs.

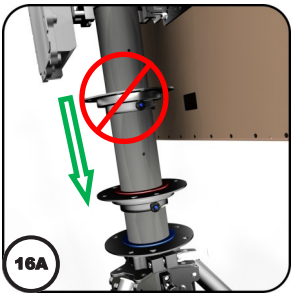
⚠ C) SAFETY: Never adjust the Tripod Leg turn knobs during or after deployment of the Center Mast Poles.

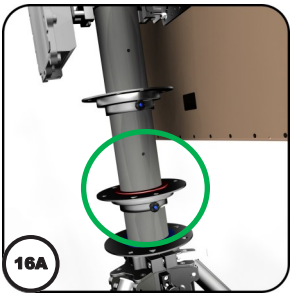




16) Securing the Primary Guy Ring.

A) Pin the Red Primary Guy Ring to the Mounting Pole below your equipment. Make sure to allow enough room for the Primary Guys to be deployed without interference.



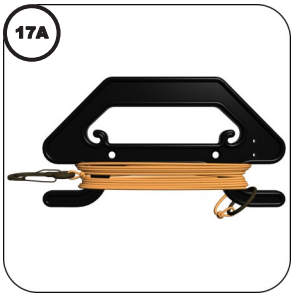


17) Deploy Primary Guying - 2 ppl (4 Guy Configuration).

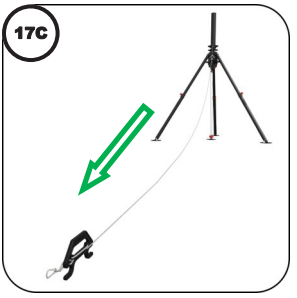
A) PERSON #1 - Locate the ORANGE GUY LEADER with Orange Guy Rope.

B) Clip the end into the Round Hole on the Red Primary Guy Ring.

C) Walk away from the mast unwinding the guy rope until you reach the meter mark on the guy leader (the meter mark will correspond to your system mast height 2M, 3M, 4M etc.).







17) Deploying Primary Guying - 2ppl - Continued...

D) PERSON #2 - Locate the 4 Guy Stakes and Hammer and follow Person #1.

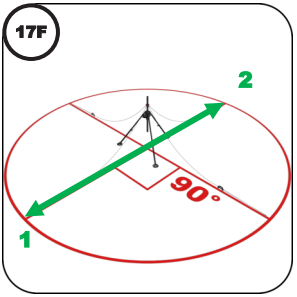


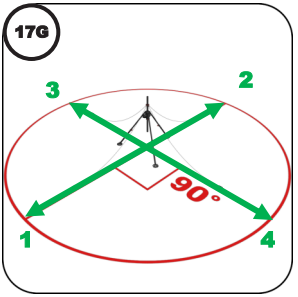
E) Guy Stake #1 - Align yourself such that you are facing the side of the tripod that is opposite of the winch. At the meter mark on the Guy Leader, drive a stake into the ground at an angle.

F) Guy Stake #2—make sure it is staked directly opposite and inline with Guy Stake #1 at the meter mark on the Guy Leader.

G) Repeat this process until all 4 Guy Stakes have been deployed 90 degrees apart.



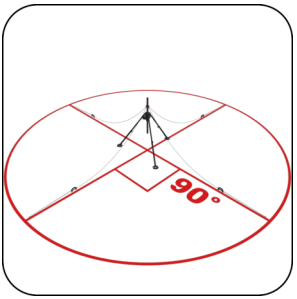




17) Deploy Primary Guying (I DO NOT HAVE A GUY LEADER).

NOTE: If you have lost or do not have a GUY LEADER to mark your guy stakes, start at the center of the tripod and take one NORMAL step per meter of system height away from the mast. Do not exaggerate your steps.

EXAMPLE: 15m = 15 NORMAL steps. Person #1 should be the only person doing this to ensure each of the 4 guy stakes are deployed at similar distances.

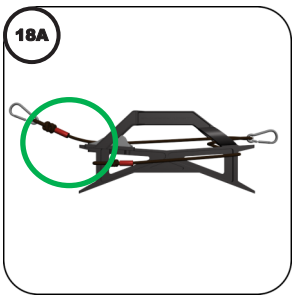


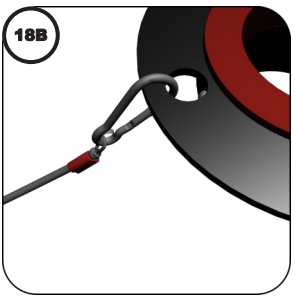
18) Primary Guying - Deploying the 1st Primary Guy Rope.

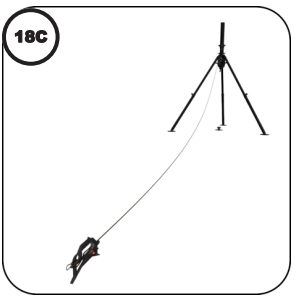
A) Locate the 4 Primary Guy Ropes with red tabs next to the guy clip.

B) Remove the Guy Leader, wrap it around the handle, and then stow it in the Stake Bag. Clip the first Primary Guy Rope to the round hole on the Primary Guy Ring. Secure the carabiner by twisting the threaded cover over the clip to prevent the carabiner from unclipping.

C) Unwind the Guy Rope from the Guy Handle while walking away from the mast and towards the first Guy Stake.



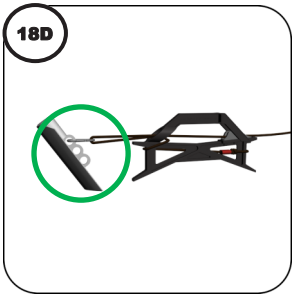


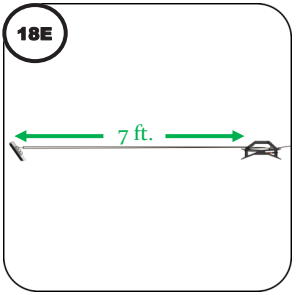


18) Primary Guying - Continued...

D) Make sure to unwind all of the guy rope off the guy handle and clip the Primary Guy Rope to the top hole of the Guy Stake. Secure the carabiner by twisting the threaded cover over the clip to prevent the carabiner from unclipping.

E) **IMPORTANT:** Slide the guy handle towards the mast approx. 7 feet. This will help to prepare you for incremental guying.



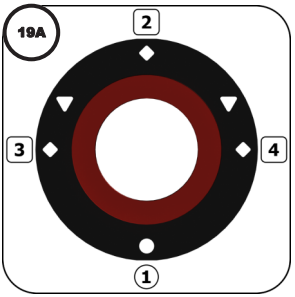


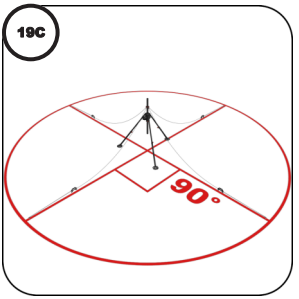
19) Primary Guying - Deploying the Remaining Primary Guy Ropes.

A) Attach the stainless steel clip on the free end of the Primary Guy Ropes to the remaining **Square Holes on the Primary Guy Ring**.

B) Repeat the process outlined in step 18 until all 4 guy ropes have been deployed.

C) When finished, the Primary Ropes should be deployed 90 degrees from each other.





20) Raising the First Mast Pole.

A) Make sure that the Winch Cable is taught and the Lift Base Plate is secure in the bottom of the first Mast Pole.

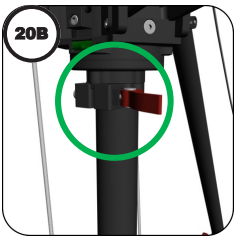
B) Release the Cam Lock on the bottom of the Tripod.

C) Raise the first Mast Pole by cranking the Winch Handle clockwise until the bottom of the first Mast Pole is approximately 4 inches from the bottom of the Cam Lock.

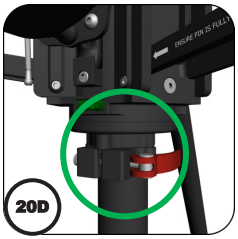
D) Secure the first Mast Pole by locking the Cam Lock on the Tripod.

⚠ E) SAFETY: When raising mast poles, always ensure that there is approximately 4 inches of the pole visible beneath the Cam Lock before securing it.









21) Lowering the Lift Base Plate to the Ground.

⚠ A) SAFETY: Make sure the Cam Lock is locked before lowering the Lift Base Plate.

B) Slowly begin lowering the Lift Base Plate by turning the winch handle counter-clockwise making sure that the Mast Poles do not begin to move. Nudge the Lift Base Plate to unseat it from the pole if necessary.

⚠ C) SAFETY: If slipping occurs check that the Cam Lock is locked. If it is locked, refer to the “Cam Lock Maintenance” in Step 8.

D) Continue lowering the Lift Base Plate until it rests flat on the ground.





22) Inserting the Center Mast Pole.

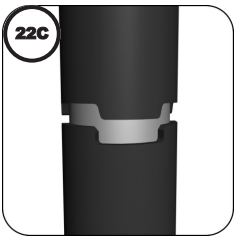
A) Locate a Center Mast Pole (with the silver insert) in the Pole Bag (or Pole Case) and insert the bottom of the Center Mast Pole onto the tapered cone of the Lift Base Plate.

B) **THIS IS A ONE PERSON OPERATION** - Slowly crank the winch handle clockwise with one hand while using the other hand to gently guide the silver insert of the Center Mast Pole into the bottom of the already inserted Mast Pole.

C) Make sure the poles nest together fully and no silver is showing in the seam.







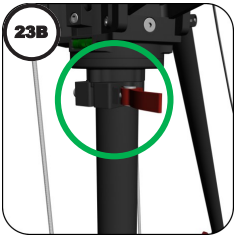
23) Lifting the Center Mast Pole.

A) Make sure that the Winch Cable is taut and straight. If the Winch Cable has become slightly twisted then tap the Lift Base Plate lightly with your foot to straighten out the cable.

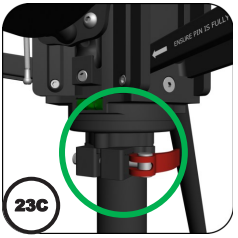
B) Release the Cam Lock and raise the Center Mast Pole until the bottom is approximately four inches from the bottom of the tripod.

C) Lock the Cam Lock on the tripod.









23) Lifting the Center Mast Pole - Continued...

D) Repeat this process adding Center Mast Poles until it is time to engage the Blue Secondary Guy Ring at one half the total mast height.

HELPFUL HINTS:

Guide the cable on the winch to avoid stack up and jumping

Secure all cables using the Velcro Straps

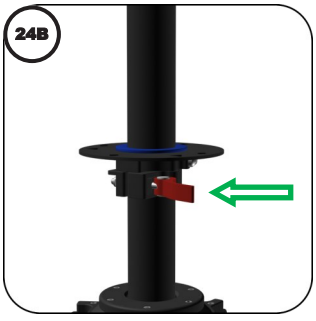
Always monitor your Guy Wires

24) Secondary Guying - Securing the Secondary Guy Ring.

A) When you have deployed the mast half way, stop and lock the Cam Lock on the bottom of the tripod.

B) Locate the **Blue Secondary Guy Ring** on top of the tripod and lock its Cam Lock.

⚠ C) SAFETY: Make sure that the Cam Lock is fully locked and that the black safety tab is covering the Cam Lock Lever. This will prevent a guy rope from accidentally unlocking the Blue Secondary Guy Ring during deployment.

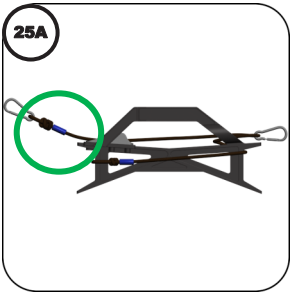


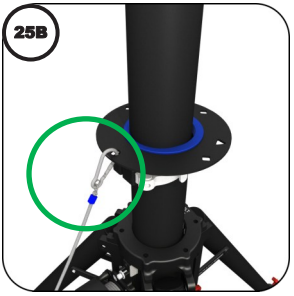


25) Secondary Guying - Deploying the Secondary Guy Ropes.

A) Locate the four Secondary Guy Ropes with Blue Tabs next to the guy clip.

B) Attach the stainless steel clip on the free end of the 1st Secondary Guy Rope to the round hole on the Blue Secondary Guy Ring. Secure the carabiner by twisting the threaded cover over the clip to prevent the carabiner from unclipping.

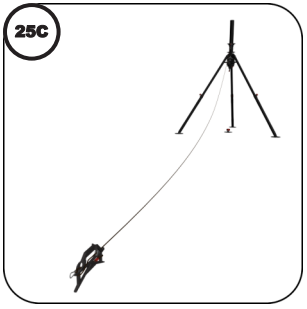




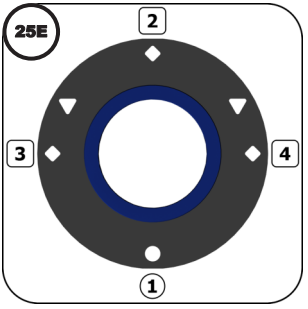
C) Walk away from the mast while unwinding ALL of the Guy Rope from the handle.

D) Clip the end of the Secondary Guy Rope to the bottom hole on the Guy Stake.

E) Repeat the Process until all 4 Secondary Guy Ropes have been deployed using the remaining square holes on the Secondary Guy Ring.







Continue to Raise the Mast Poles,

Incremental Guying may be Required

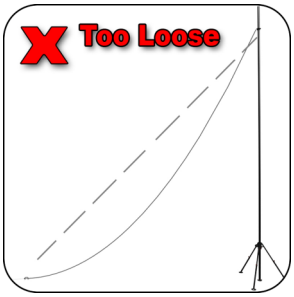
Incremental Guying - Why is it Important?

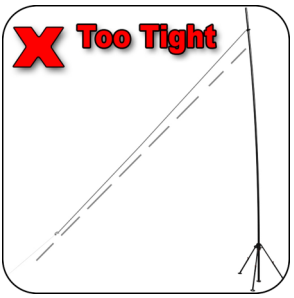
Heavy loads or windy conditions can exert extra force on the center mast poles during deployment causing them to bind in the tripod and create potentially unsafe conditions. Incremental Guying is used when the mast begins to lean and is no longer straight and perpendicular.

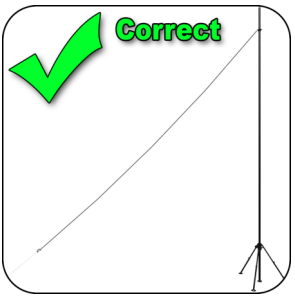
Incremental guying may be required when less than two people are available to hold the primary or secondary guy ropes during deployment with heavy loads or high winds.

Excessive leaning during deployment is an indicator that incremental guying is required. When these conditions exist, it will be necessary to incrementally guy the mast during deployment before reaching the desired height. Incremental guying will add time to the deployment but will ensure the safety of both personnel and equipment.

Be sure when adjusting the amount of tension on the guy ropes not to over tighten the guy ropes. This puts significant downward pressure on the mast. See the diagram below for reference on how guy ropes and the mast should look when correctly deployed.







HELPFUL HINTS:

Guide the cable on the winch to avoid stack up and jumping

Secure all cables using the Velcro Straps

Always monitor your Guy Wires

26) Incremental Guying - 2 ppl.

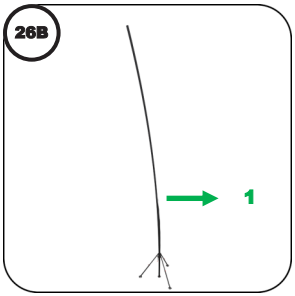
A) Once the mast begins to lean or the Primary Guy Ropes go taut, then stop cranking the Winch and lock the Cam Lock.

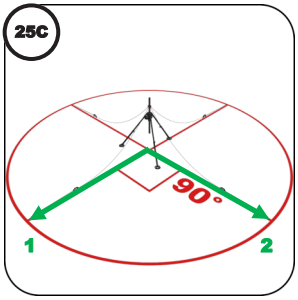
B) PERSON #1 should go to the Guy Rope opposite the direction the Mast is leaning.

C) PERSON #2 should go to the guy rope that is 90 degrees from person #1.

D) To adjust the Guy Rope, hold the rope in front of the guy handle and slide the handle forward to tighten or use your finger to release the rope from the cleat to slide the handle back and loosen.

E) Adjust all 4 Primary Guy Ropes until the Mast is straight and perpendicular.







F) Now loosen the primary guy ropes (**based on the length of the pole below the cam lock**). See examples below. If the length of the pole under the cam lock is 1 foot - slide the handle back 1 foot on each of the 4 primary guy ropes. This will allow you enough room to raise the mast 1 foot and prepare for the next mast pole.







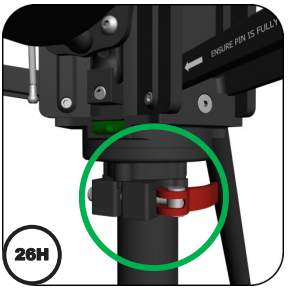
26) Incremental Guying - Continued...

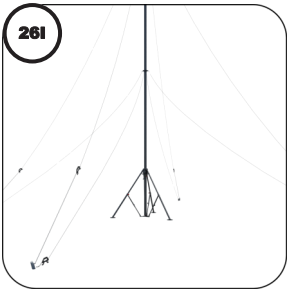
G) Release the Cam Lock and raise the mast until approximately four inches are showing under the Cam Lock.

H) Lock the Cam Lock.

I) Make sure all 4 Primary Guy Ropes are taut and the Mast is straight.







J) Lower the Lift Base Plate to the ground and insert another Mast Pole.

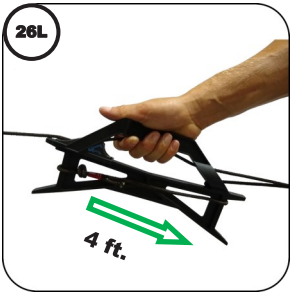
K) Raise the Mast Pole until the castle cuts nest together.

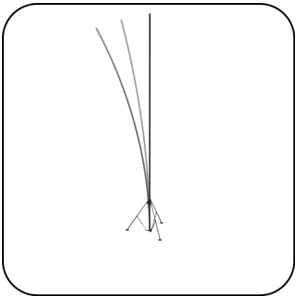
L) Now adjust all 4 Primary Guy Ropes by sliding the handle back approx. 4 feet.

M) This will allow you enough slack to add another Mast Pole.

NOTE: The mast will lean, but will straighten up as you raise the next mast pole.







Repeat the process outlined in step # 26 until you have reached the last center mast pole.

27) Deploying the Last Center Mast Pole.

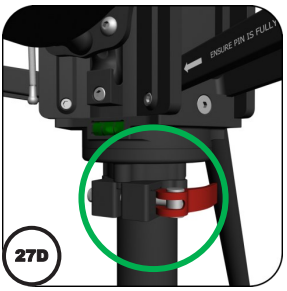
A) Insert the bottom of the last Mast Pole onto the Lift Base Plate.

B) Raise the Mast Pole until it nests into the previous Mast Pole.

C) Release the Cam Lock and slowly lower the Mast Pole to the ground.

D) Lock the Cam Lock.



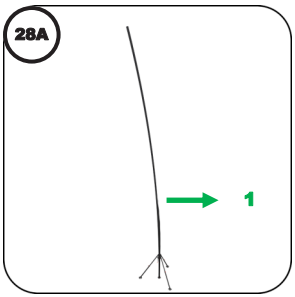


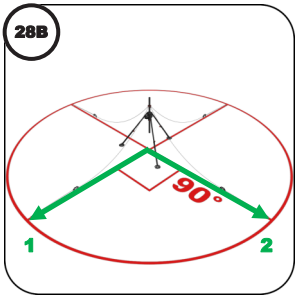
28) Adjusting the Primary Guy Ropes (2 ppl).

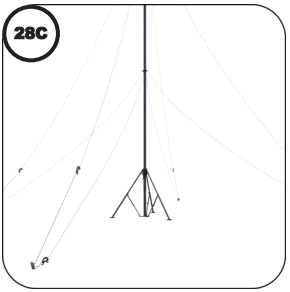
A) If the Mast is leaning, person #1 should go to the Guy Rope opposite the lean.

B) Person #2 should go to the Guy Rope that is 90 degrees from person #1. This will allow you to see how far each Guy Rope needs to be adjusted to get the Mast straight and perpendicular. Rotate to the other Guy Ropes to continue adjustment.

C) It may take a couple rotations on the Guy Ropes to get the Mast straight and perpendicular.







29) Adjust and Lock the Primary Guy Ropes.

A) Lock the Primary Guy Ropes by holding the rope in front of the handle and sliding the handle slowly towards the Mast allowing the rope to settle into the cleat which will lock the rope into position.



30) Adjust and Lock the Secondary Guy Ropes.

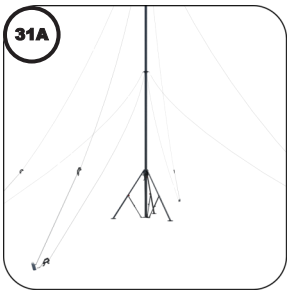
A) Repeat the process above for the Secondary Guy Ropes.

31) Stake the Lift Base Plate.

A) Make sure the Mast is straight and perpendicular and the Primary and Secondary Guy Ropes are adjusted and locked.

B) Using your foot - gently tap on the mast pole to help relevel the mast (check bubble levels).

C) Drive two Tripod Stakes at opposite angles into the Lift Base Plate to secure it.







32) Securing the Winch and Winch Cable

A) Remove the Ball Stop from the Ball Stop Holder.

B) Wind the free cable onto the Winch and secure the Ball Stop on the Winch.

C) Remove the Winch Handle and place it back into its carry bag.

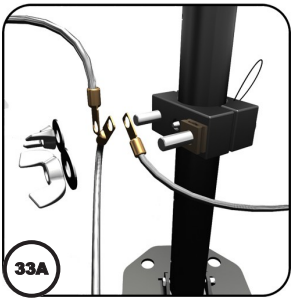






33) Deploy the Surface Wire Grounding Kit. (Optional)

A) The BlueSky Surface Wire Grounding Kit (additional accessory) can be deployed at this time if available when lightning or static discharge is a safety concern.



34) Stow the Equipment and Secure the Area.

A) Police the area for any loose tools or equipment that may have been left in the field during deployment.

B) Stow the Wheeling Carry Bag or Hard Cases in a safe place for easy retrieval.

Lowering / Recovering the 200 Heavy Lift Series Mast with Primary and Secondary Guying

(For Models 2 to 15 Meters)

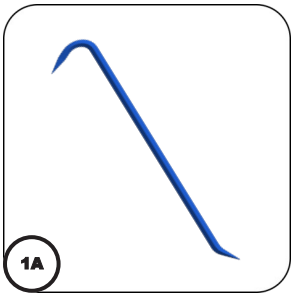
Expert Users - 2 People - 25 Minutes

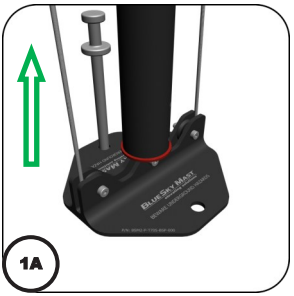
Novice Users - 2 People - 45 Minutes

200 Heavy Lift Series - Lowering/Recovery (Primary & Secondary Guying)

1) Removing the Lift Base Plate Stakes.

A) Locate the Crow Bar included with the system and remove the two stakes from the Lift Base Plate.

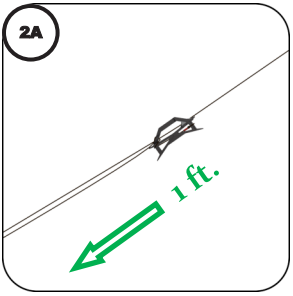




2) Loosening the Primary and Secondary Guy Ropes.

A) Unlock the Primary and Secondary Guy Ropes and slide the Handle away from the Mast by approximately ONE FOOT.

B) **DO NOT** loosen the guy ropes more than ONE FOOT.
One foot is all you need to raise the Mast and remove the first Mast Pole.



200 Heavy Lift Series - Lowering/Recovery (Primary & Secondary Guying)

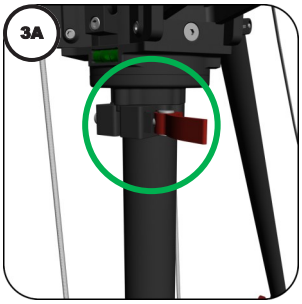
3) Raising the Mast Pole.

A) Re-attach the Winch Handle and Winch Cable per Deployment steps 12 and 14.

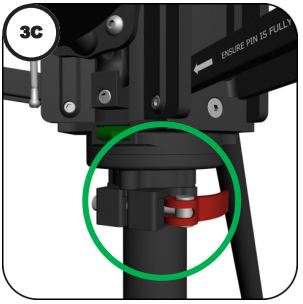
B) Release the Cam Lock.

C) Raise the Mast approximately one foot by **SLOWLY** turning the Winch Handle clockwise until approximately four inches of the next mast pole are showing below the Cam Lock

D) Lock the Cam Lock.







4) Removing the Mast Pole.

⚠ A) SAFETY: Make sure the Cam Lock is engaged before lowering the Lift Base Plate.

B) Lower the Mast Pole to the ground by **SLOWLY** turning the Winch Handle counter -clockwise until the Lift Base Plate rests firmly on the ground. Gently guide the Mast Pole with your hand.

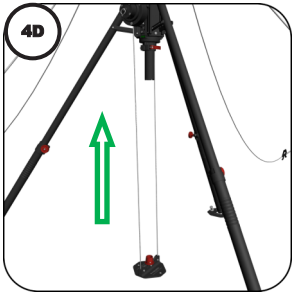




4) Removing the Mast Pole - Continued...

C) Step on the lift base plate, remove the Mast Pole and stow it in the Pole Bag (or Pole Case).

D) Raise the Lift Base Plate until it nests firmly into the bottom of the next Center Mast Pole and the cable is straight and taut.





5) Lowering the Mast - Removing the Next Center Mast Pole.

A) Release the Cam Lock and **SLOWLY** lower the mast until approximately four inches of the next mast pole are showing below the Cam Lock. The mast will begin to lean.

B) Lock the Cam Lock, remove the Mast Pole and store it in the Pole Bag (or Pole Case).

C) Raise the Lift Base Plate until it nests firmly into the next Mast Pole.

D) ***SEE NEXT STEP - ADJUSTING THE PRIMARY GUY ROPES.***







200 Heavy Lift Series - Lowering/Recovery (Primary & Secondary Guying)

Incremental Guying is **MANDATORY** when lowering the first 3 - 5 center mast poles.

6) Adjust the 4 Primary Guy Ropes - 2 ppl.

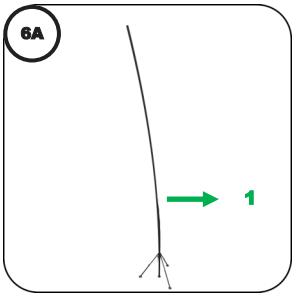
A) PERSON #1 should go to the Guy Rope opposite the direction the Mast is leaning.

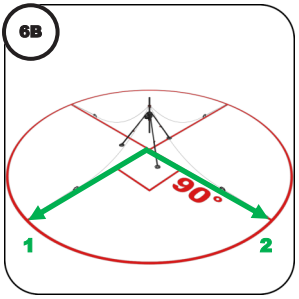
B) PERSON #2 should go to the Guy Rope that is 90 degrees from person #1.

C) Adjust the Primary Guy Ropes by holding the rope in front of the guy handle and sliding the handle forward to tighten.

D) Adjust all 4 Primary Guy Ropes until the mast is straight and perpendicular.

E) REPEAT STEPS 5 & 6 UNTIL YOU REACH THE SECONDARY GUY RING.



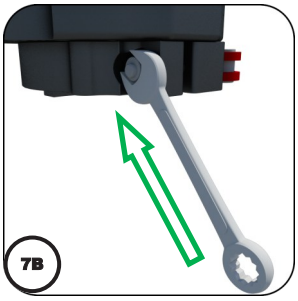


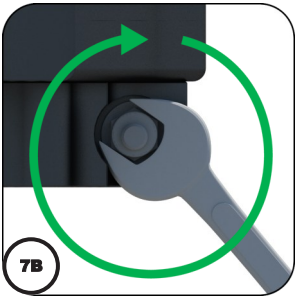


7) Cam Lock Maintenance.

⚠ A) SAFETY: If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.

B) Use the 7/16 wrench provided with the system to turn the nut a quarter turn until slipping no longer occurs.



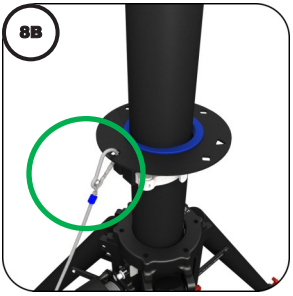


8) Removing the Secondary Guy Ropes.

A) When the Blue Secondary Guy Ring reaches the top of the tripod, stop lowering the Mast.

B) Disconnect the Secondary Guy Ropes, pull in all the slack and wind the loose rope back onto the handle, then place them into their carry bag.

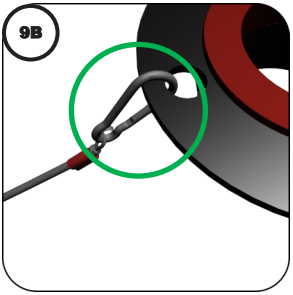
C) Release the Cam Lock on the Blue Secondary Guy Ring and allow it to rest on top of the Tripod.



9) Removing the Primary Guy Ropes.

A) Continue lowering the Mast until the Red Primary Guy Ring is easily within reach.

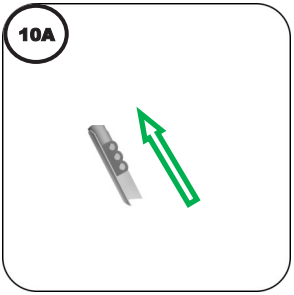
B) Disconnect the Primary Guy Ropes, pull in all the slack and wind all of the rope onto the handle and place all 4 into their carry bag.



10) Removing the Guy Stakes.

A) Use the Hammer to tap each side of the Guy Stakes back and forth to loosen and remove the stakes.

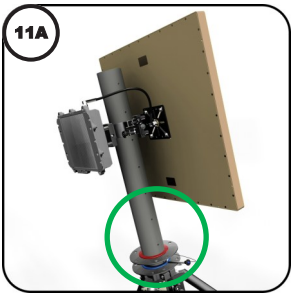
B) Place the stakes back into the Stake Bag.



11) Remove and Stow Devices and Guy Rings.

A) Remove all devices and accessories from the Mounting Pole.

B) Remove the Red Primary Guy Ring and Blue Secondary Guy Ring and stow them in their carry bag.



12) Removing the Remaining Equipment.

A) Release the Winch Cable from the Ball Stop Holder and wind the cable back onto the Winch and stow the Handle and Lift Base Plate in their carry bag.

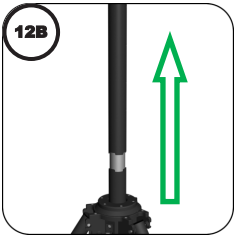
B) Release the Cam Lock and place the Mast Pole and Mounting Pole into the Pole Bag (or Pole Case).

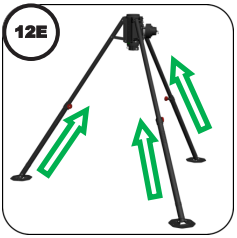
C) Lock the Cam Lock.

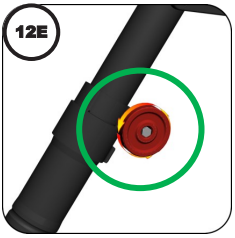
D) Remove the remaining Tripod Stakes and put them back in the Stake Kit Bag.

E) Collapse the extended Tripod Legs and tighten the turn knobs.







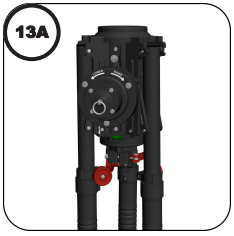


13) Collapse and Stow the Tripod.

A. One at a time push each Tripod Leg inward.

⚠ **B. SAFETY: PINCHING HAZARD - When collapsing the tripod, DO NOT put your fingers in the cross links.**

C. Wrap Velcro strap around the stowed Tripod Legs.

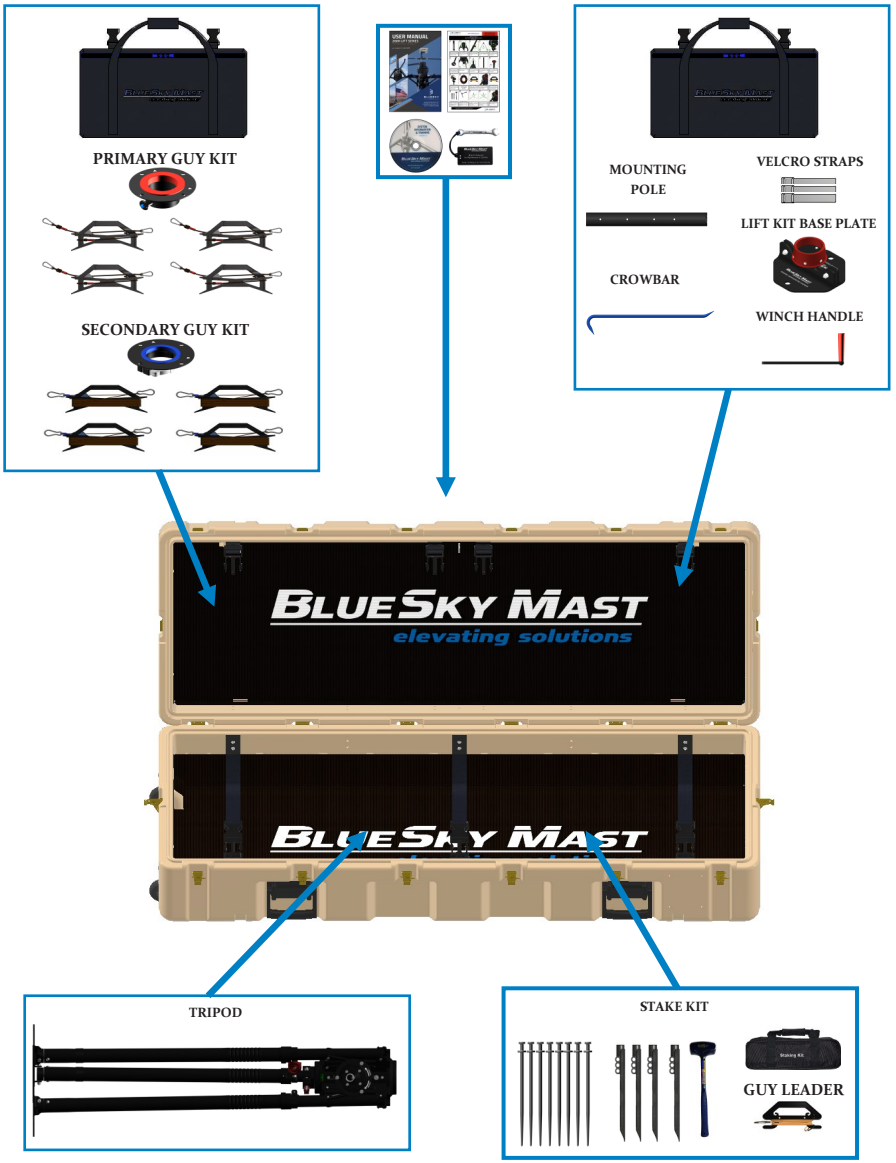


14) Stow Loose Gear and Police the Area.

A) Stow any loose gear. SEE NEXT PAGE “Stowing & Packing the System” Diagram for further instructions.

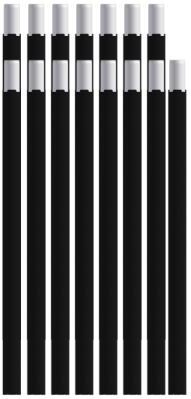
200 Heavy Lift Series - Stowing and Packing the System

15M System –Hard Case #1



15M System –Hard Case #2

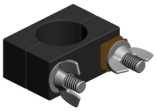




CENTER MAST POLES

Grounding Deployment Instructions

Surface Wire Grounding Kit—BST2-K-L104-GND-000



Grounding Bracket
BST2-B-P205-GND-000



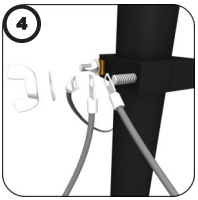
Stainless Steel Cable w/Stakes
BST2-P-C225-GND-000



Grounding Bag
BST2-B-P300-BAG-GND

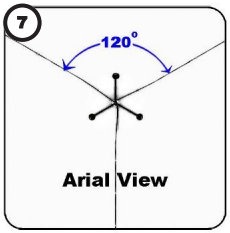
GROUNDING DEPLOYMENT INSTRUCTIONS

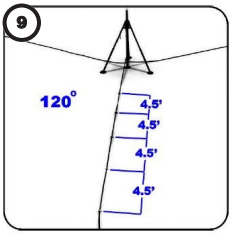
1. Locate grounding bracket and attach to the base pole of the mast.
2. The grounding bracket should be attached to the middle of the base pole to provide the best grounding.
3. Locate the grounding cables and place them at the base of the mast.
4. Remove the wing nut from the post without the Bronze ECLE connector and attach the ends of the grounding cables.
5. Connect one end of each of the grounding cables to the grounding bracket post an tighten back down the wing nut.
6. If additional equipment grounds are required, attach them to the Bronze ECLE connector.
7. Extend the grounding cables away from the base pole at 120 degree angles from each other.
8. Position the 1st stake of each cable at the free end furthest from the base of the mast.
9. Evenly space the remaining stakes of each cable at an interval of 4.5ft.
10. Hammer the stakes into the ground making sure that the head of each stake contacts the ground.



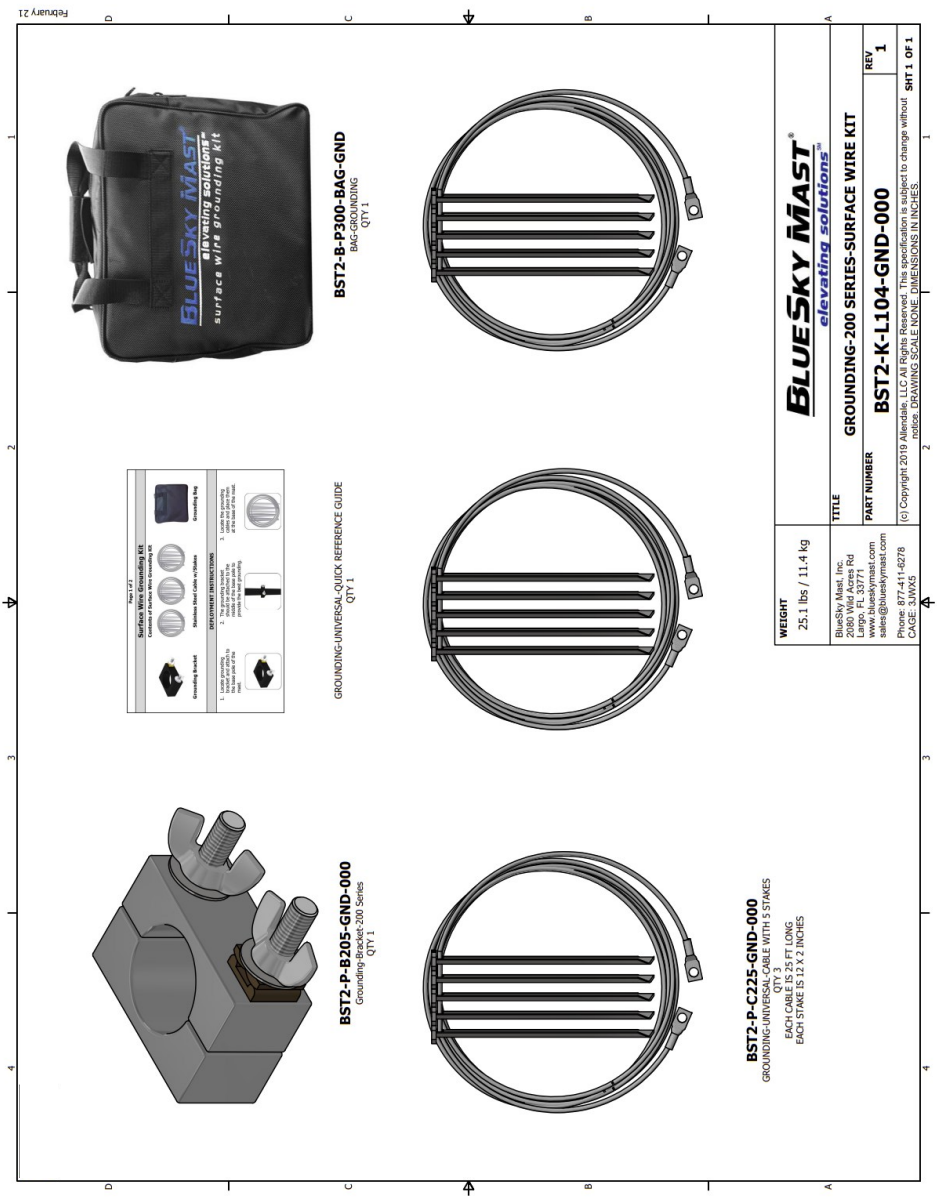








Grounding Deployment Instructions



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Top Plates & Adaptors

BlueSky Mast offers a full suite of quick release top plates and adaptors for all types of antennas, cameras and devices. Each of the mounting options includes a quick release pin-on adaptor that mounts directly to the mast system mounting pole, which eliminates the need for tools in the field. These quick release adaptors allow for fast and easy installation and increased flexibility for warfighters who have to mount multiple devices on a single mast.









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Top Plates & Adaptors

These accessories attach to the mounting pole on the top of an AL1 or AL2 mast system *(Based on system height and payload).*



OE-254 & COM201 Antennas
BSM2-K-M400-OE2-000



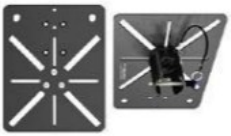
Manual Tilt Assembly with Mounting Pole
BSM2-K-M650-TLT-000
(+/- 22 Degrees Tilt Angle Adjustment)



Pan & Tilt for Quickset QPT & FLIR
BSM2-A-M460-MPP-00A



Cross Pattern 6x6 Inches
BSM2-A-M550-MPP-00A



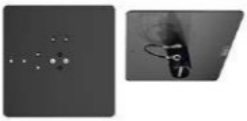
Cross Pattern 8x10 Inches
BSM2-A-M408-MPP-00A



NATO - SINCGARS - EPLRS
BSM2-A-M305-NTO-00A



Solid 7.5x7.5
BSM2-A-M407-MPP-00A



Solid 11.5x11.5
BSM2-A-M411-MPP-00A



Radar 8x11
BSM2-A-M400-MPP-RDA

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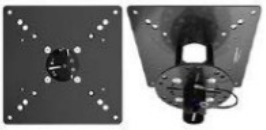
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Top Plates & Adaptors

These accessories attach to the mounting pole on the top of an AL1 or AL2 mast system *(Based on system height and payload).*



KVH TracPhone TPV 3-7, TVHD 11
BSM2-K-M309-MPP-TRC



Cisco 1500 Series
BSM2-A-M410-CSC-00A



Tampa Microwave
BSM2-A-M410-MPA-TML



G2 Magnetic Mount
BSM2-A-M325-MAG-00A



BMS GPS & RF Tracking, GTA 17/58
BSM2-A-M365-BMS-00A



Pipe Mount for 1-2 Inch Antennas
BSM2-A-M420-MPA-000



Mobile Mark Omni Antenna
BSM2-A-M718-MPP-00A



PSL / DF Device
BSM2-A-M415-MPP-00A



Pin On Threaded Adaptor
BSM2-A-P-M510-PIN-000

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Side Arm Kits & Mounts

BlueSky Mast offers a full suite of side arm kits and mounts. Based on your separation requirements, we have multiple arm lengths and a variety of side mounts which include a quick release push pin for fast and easy installation.









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Side Arm Kits

These Side Arm Kits can be mounted anywhere on an AL1 or AL2 mast system *(Based on system height and payload).*

DUAL — STRAIGHT ARM KIT - DUAL - COM201/OE-254








This kit includes two insulated adaptors that work with both COM201 and OE-254 antennas.

ARM LENGHT	PART NUMBER
44 in.	BSM2-K-A352-S44-OE2

(1) Side Arm Mount - 1 in. COM201 / OE-254
P/N: BSM2-K-M400-0E2-EM0

(1) AL1 / AL2 Pole Mount - Two sided
P/N: BSM2-P-A352-T00-100

(2) Straight Arm Bracket w/1 in. Side Arm (44 in.)
P/N: BSMU-P-A344-ARM-10S

DUAL — STRAIGHT ARM KIT - DUAL - NATO






ARM LENGHT (Inches)	PART NUMBER
24 in.	BSM2-K-A352-S24-NTO
36 in.	BSM2-K-A352-S36-NTO
44 in.	BSM2-K-A352-S44-NTO

(1) AL1 / AL2 Pole Mount - Two sided
P/N: BSM2-P-A352-T00-100

(1) Side Arm Mount - 1 in. NATO-SINGARS-EPLRS
P/N: BSM2-A-M305-NTO-EM0

(2) Straight Arm Bracket w/1 in. Side Arm (44 in.)
P/N: BSMU-P-A344-ARM-10S

DUAL — ARTICULATING ARM KIT - DUAL w/BOLSTER PLATE



(1) AL1 / AL2 Pole Mount - Two sided
P/N: BSM2-P-A352-T00-100

(2) Articulating Arm Brackets
P/N: BSMU-P-A3XX-ARM-10S

(2) Slotted Side Arms (6 to 36 in.)
P/N: BSM2-P-A3XX-ARM-100

(2) Side Arm Mounts - 1 in. - Bolster Plates
P/N: BSM2-P-A101-EM0

ARM LENGHT (Inches)	PART NUMBER
6 in. ARM X 2	BSM2-K-A352-T06-BOL
12 in. ARM X 2	BSM2-K-A352-T12-BOL
24 in. ARM X 2	BSM2-K-A352-T24-BOL
36 in. ARM X 2	BSM2-K-A352-T36-BOL

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Side Arm Kits

These Side Arm Kits can be mounted anywhere on an AL1 or AL2 mast system *(Based on system height and payload).*

SINGLE



(1) AL1/AL2 Pole Mount - Two Sided
P/N: BSM2-P-A3S2-T00-000

(1) Straight Arm Bracket w/1 in. Side Arm (6 to 44 in.)
P/N: BSMU-P-A3XX-ARM-105

NOT INCLUDED: 1 in. Side Arm Mount *(See optional side arm mounts)*

STRAIGHT ARM KIT - SINGLE - NO SIDE MOUNT

ARM LENGTH (Inches)	PART NUMBER
6 in.	BSM2-K-A3S1-S06-100
12 in.	BSM2-K-A3S1-S12-100
24 in.	BSM2-K-A3S1-S24-100
36 in.	BSM2-K-A3S1-S36-100
44 in.	BSM2-K-A3S1-S44-100

DUAL



(1) AL1/AL2 Pole Mount - Two Sided
P/N: BSM2-P-A3S2-T00-000

(2) Straight Arm Bracket w/1 in. Side Arm (6 to 44 in.)
P/N: BSMU-P-A3XX-ARM-105

NOT INCLUDED: 1 in. Side Arm Mount *(See optional side arm mounts)*

STRAIGHT ARM KIT - DUAL - NO SIDE MOUNT

ARM LENGTH (Inches)	PART NUMBER
6 in.	BSM2-K-A3S2-S06-100
12 in.	BSM2-K-A3S2-S12-100
24 in.	BSM2-K-A3S2-S24-100
36 in.	BSM2-K-A3S2-S36-100
44 in.	BSM2-K-A3S2-S44-100

THREE WAY



(1) AL1/AL2 Pole Mount - Three Sided
P/N: BSM2-P-A3S3-T00-000

(3) Straight Arm Bracket w/1 in. Side Arm (6 to 44 in.)
P/N: BSMU-P-A3XX-ARM-105

NOT INCLUDED: 1 in. Side Arm Mount *(See optional side arm mounts)*

STRAIGHT ARM KIT - THREE WAY - NO SIDE MOUNT

ARM LENGTH (Inches)	PART NUMBER
6 in.	BSM2-K-A3S3-S06-100
12 in.	BSM2-K-A3S3-S12-100
24 in.	BSM2-K-A3S3-S24-100
36 in.	BSM2-K-A3S3-S36-100
44 in.	BSM2-K-A3S3-S44-100

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Side Arm Mounts

These Side Arm Kits can be mounted anywhere on an AL1 or AL2 mast system *(Based on system height and payload).*




Adjust to fit antennas with an OD of .75 to 2.0 inches

Omni Antenna .75 to 2.0 Inch
BSMU-P-A112-OMN-EM5




Adjust to fit antennas with an OD of 2.0 to 3.5 inches

Omni Antenna 2.0 to 3.5 Inch
BSMU-P-A350-OMN-EM5




NATO - SINGARS - EPLRS
BSMU-A-M305-NTO-EM5




OE-254 & COM201 Antennas
BSMU-K-M400-OE2-EM5

This insulated adaptor works with both COM201 and OE-254 antennas.

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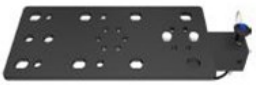


Side Arm Mounts

These Side Arm Kits can be mounted anywhere on an AL1 or AL2 mast system *(Based on system height and payload).*



Cross Pattern 8x10
BSMU-A-M408-MPP-EM5



Cisco 1500 Series
BSMU-A-M410-CSC-EM5



Solid 7.5x7.5
BSMU-A-M407-MPP-EM5



Bolster Plate
BSMU-P-A101-BOL-EM5



ARUBA AP
BSMU-A-M325-AAP-EM5



Solid 11.5x11.5
BSMU-A-M411-MPP-EM5



L-Com Mimo Omni Antenna
BSMU-A-M454-MPP-EM5



G2 MAG MOUNT
BSMU-A-M325-MAG-EM5



GPS Antenna
BSMU-A-M375-GPS-EM5

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Pole Mounts & Plate Brackets

BlueSky Mast's patented interface (slide lock technology) allow warfighters to easily attach and remove devices to our universal pole mount, which can be secured anywhere on the mast from the base to the top.











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Pole Mounts *U.S. and International Patents Pending*

Position anywhere on the mast, secure by latching and tightening the turn knobs. Plates w/Brackets can now be added.

Pole Mount - Two Sided - BSM2-P-A352-T00-000






Patented BlueSky Mast Interface





Pole Mount - Three Sided - BSM2-P-A353-T00-000






Patented BlueSky Mast Interface





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Plate Brackets

These plate brackets can be mounted anywhere on the mast using our 2 or 3 side pole mounts.

FRONT OF PLATE

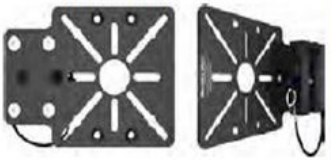
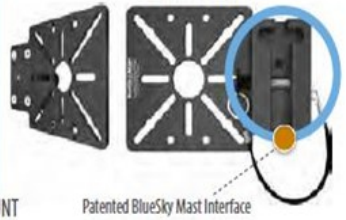


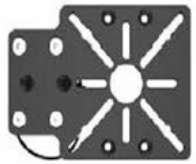


PLATE BRACKET ON POLE MOUNT

BACK OF PLATE



Patented BlueSky Mast Interface



Universal PTP Plate
BSM2-A-M900-PTP-BRK



Cisco Aironet 1520 Series
BSM2-A-M524-CSC-BRK



Ultra TCS 245 Radio
BSMU-A-M850-TCS-BRK



Cross Pattern 8x10 Inch
BSM2-A-M408-MPP-BRK



Omni Bracket .75 to 2.0 Inch OD
BSMU-P-A112-OMN-BRK



Omni Bracket 2.0 to 3.5 Inch OD
BSMU-P-A350-OMN-BRK

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Plate Brackets

These plate brackets can be mounted anywhere on the mast using our 2 or 3 side pole mounts.



GD Fortress ES Series
BSM2-A-M520-GDF-BRK



Ultra TCS Antennas
BSMU-P-A860-TCS-BRK



Cambium/Motorola Radio & LPU
BSM2-A-M415-MOT-BRK



Hoffman NEMA Enclosures
BSM2-A-M412-HFM-BRK



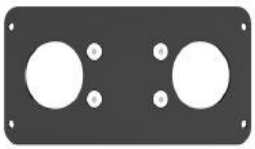
Radiowaves 2ft. Parabolic Antenna
BSM2-A-M502-MPP-BRK



Mobile Mark 120 Sec Antenna
BSMU-A-M710-MMA-BRK



Tampa Micro Satellite Simulator
BSM2-A-M410-MPA-TM2



Rajant Ethernet Radio
BSMU-A-M585-RAJ-BRK



AirGrid M Antennas
BSM2 -A-M560-MPP-BRK

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Plate Brackets

These plate brackets can be mounted anywhere on the mast using our 2 or 3 side pole mounts.



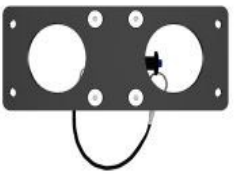
PC Tel Sector Antenna SP4959
BSMU-A-M705-PCT-BRK



Hyperlink - L-Com Panel Antenna
BSM2-A-M700-MPP-BRK



GD V6 eNode B
BSMU-A-M411-EN6-BRK



Rajant Breadcrumb Radio
BSMU-A-M580-RAJ-BRK



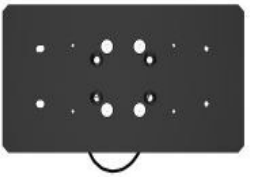
Solid 7.5x7.5
BSM2-A-M407-MPP-BRK



Solid 11.5x11.5
BSM2-A-M411-MPP-BRK



Rajant PC Tel Sector Antenna
BSMU-A-M587-RAJ-BRK



BKT-11 QUAD and MPU3
BSM2-A-M811-BKT-BRK



C2M2 Transceiver
BSMU-A-M525-C2M-BRK

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Certified Grounding & Lightning Protection

BlueSky Mast has created a suite of certified grounding accessories that enable you to protect your equipment and more importantly your personnel from static discharge and high voltage equipment surges. Our portable mast platforms, when combined with our surface wire grounding kit, have been tested and certified to provide lightning protection equivalent or better than driving an 8 ft. copper rod into the ground.







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Certified Grounding & Lightning Protection

Protect your equipment with grounding and lightning components from BlueSky Mast.

GROUNDING



Surface Wire Grounding Kit - AL1 & AL2
BST2-K-L104-GND-000



LIGHTNING PROTECTION



Pin On Lightning Air Terminal - AL1 & AL2
BST2-K-L102-GND-000



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BLUESKY

MAST

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