

USER MANUAL



SCHEDULE
GS-07F-5916R

MADE IN THE U.S.A.



350G XL LIFT SERIES *FAST MECHANICAL LIFT SYSTEM*

Rev 3
Feb 2020

BLUESKY MAST
elevating solutions™

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350G XL 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.

BLUESKY MAST, INC. MAKES NO WARRANTIES REGARDING THE GOODS, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. BUYER MAKES NO RELIANCE ON ANY REPRESENTATION OR DOCUMENTATION OF BLUESKY MAST, INC. , EXPRESS OR IMPLIED, WITH REGARD TO THE GOODS .

BLUESKY MAST, INC. SELLS THE GOODS TO BUYER ON CONDITION THAT BLUESKY MAST, INC. WILL HAVE NO LIABILITY OF ANY KIND AS A RESULT OF THE SALE. BUYER AGREES THAT BLUESKY MAST, INC. SHALL HAVE NO LIABILITY FOR DAMAGES OF ANY KIND, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURIES OR DEATH TO PERSONS OR PROPERTY, TO BUYER, ITS EMPLOYEES, CUSTOMERS OR AGENTS, AS A RESULT OF THE SALE. BUYER ALSO AGREES TO HOLD BLUESKY MAST, INC. HARMLESS FROM ANY CLAIMS BUYER, OR ANY THIRD PARTY, MAY HAVE AS A RESULT OF BUYER'S USE OF THE GOODS.

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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

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Largo, FL 33771
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Or

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Cage Code: 3JWX5

DUNS Number: 137469404

350G XL 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.

350G XL 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.

350G XL 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.

350G XL Lift Series - Safety Warnings

IMPORTANT SAFETY PRECAUTIONS

Part III: Wind Conditions

- BlueSky Mast recommends that you do not 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 Branched 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

350G XL 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 is referred to as the **payload**. The mast can support much more weight when properly guyed and stabilized but BlueSky Masts will only recommend payloads that are safe to carry during the deployment process and we call this 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.

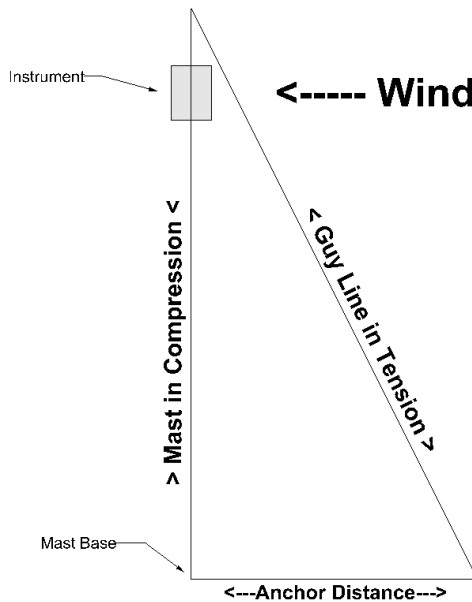
350G XL - Lift Series	Deployable Load (lbs.)	Wind Load (Primary and Secondary Guying)
15 M (49 ft.)	75 lbs.	90 MPH
14 M (45.5 ft.)	85 lbs.	90 MPH
13 M (42 ft.)	95 lbs.	90 MPH
12 M (38.5 ft.)	105lbs.	90 MPH
11 M (35 ft.)	115 lbs.	90 MPH
10 M (31.5 ft.)	125 lbs.	90 MPH
8 M (28 ft.)	145 lbs.	90 MPH

350G XL Lift Series - Loading and Guying Tutorial

Wind Effects

When wind blows on a mast and its instruments, the guys 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.



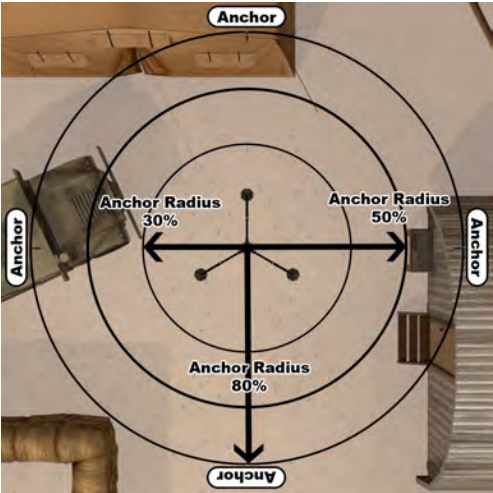
Guying

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.

350G XL Lift Series - Loading and Guying Tutorial

Anchor Radius

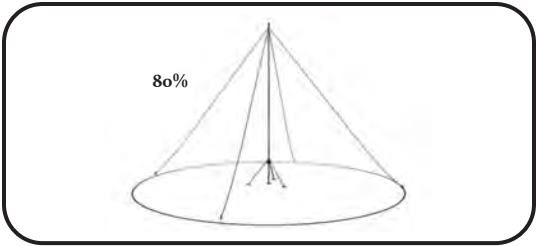
Ideal guying is set with an anchor radius of 80% of the total mast height. Many applications of mast deployments are not able to afford an installation footprint of this size and installers may find it more convenient to place the guy anchors much closer to the mast as shown in the figure to the right. **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.**



350G XL Lift Series - Loading and Guying Tutorial

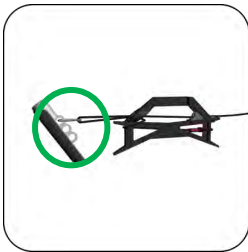
Primary and Secondary Guy Placement

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 down the mast between the top of the tripod and the primary guys. They are also deployed at 90 degrees of each other and are attached to second hole, under the primary guy ropes on the large guy stake.

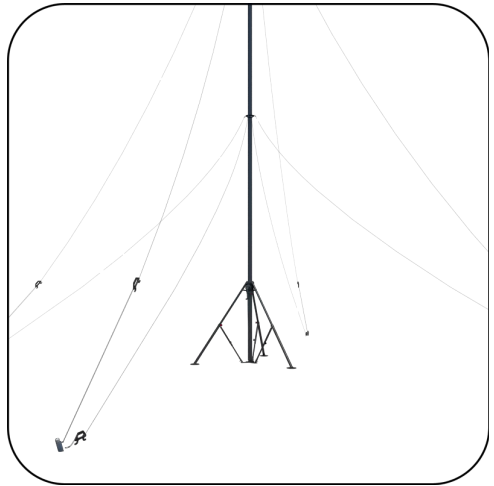
Primary Guy Placement

(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.

350G XL Lift Series - Load Tables

15 Meter System - Specifications

Fully Operational	Survivable	Mast Failure	
15 Meter 350G Mast Primary Guying Only Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes 75 Lbs. Deployed			
Wind Speed (mph)		70	90
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		
4 Sq. Ft. Panel	30% Guy Distance		
	50% Guy Distance		
	80% Guy Distance		

Fully Operational	Survivable	Mast Failure
15 Meter 350G Mast		
Primary & Secondary Guying		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
75 Lbs. Deployed		
Wind Speed (mph)	70	90
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

14 Meter System - Specifications

Fully Operational	Survivable	Mast Failure	
14 Meter 350G Mast Primary Guying Only Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes 85 Lbs. Deployed			
Wind Speed (mph)		70	90
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		
4 Sq. Ft. Panel	30% Guy Distance		
	50% Guy Distance		
	80% Guy Distance		

Fully Operational		Survivable		Mast Failure	
14 Meter 350G Mast					
Primary & Secondary Guying					
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes					
85 Lbs. Deployed					
Wind Speed (mph)				70	90
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				
4 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.

350G XL Lift Series - Load Tables

13 Meter System - Specifications

Fully Operational		Survivable	Mast Failure
13 Meter 350G Mast			
Primary Guying Only			
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes			
95 Lbs. Deployed			
Wind Speed (mph)		70	90
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		
4 Sq. Ft. Panel	30% Guy Distance		
	50% Guy Distance		
	80% Guy Distance		

Fully Operational		Survivable	Mast Failure
13 Meter 350G Mast			
Primary & Secondary Guying			
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes			
95 Lbs. Deployed			
Wind Speed (mph)		70	90
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		
4 Sq. Ft. Panel	30% Guy Distance		
	50% Guy Distance		
	80% Guy Distance		

12 Meter System - Specifications

Fully Operational		Survivable	Mast Failure
12 Meter 350G Mast			
Primary Guying Only			
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes			
105 Lbs. Deployed			
Wind Speed (mph)		70	90
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		
4 Sq. Ft. Panel	30% Guy Distance		
	50% Guy Distance		
	80% Guy Distance		

Fully Operational		Survivable	Mast Failure
12 Meter 350G Mast			
Primary & Secondary Guying			
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes			
105 Lbs. Deployed			
Wind Speed (mph)		70	90
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		
4 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.

350G XL Lift Series - Load Tables

11 Meter System - Specifications

Fully Operational	Survivable	Mast Failure
11 Meter 350G Mast		
Primary Guying Only		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
115 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

Fully Operational	Survivable	Mast Failure
11 Meter 350G Mast		
Primary & Secondary Guying		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
115 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

10 Meter System - Specifications

Fully Operational	Survivable	Mast Failure
10 Meter 350G Mast		
Primary Guying Only		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
125 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

Fully Operational	Survivable	Mast Failure
10 Meter 350G Mast		
Primary & Secondary Guying		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
125 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

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350G XL Lift Series - Load Tables

8 Meter System - Specifications

Fully Operational		Survivable	Mast Failure	
8 Meter 350G Mast				
Primary Guying Only				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
145 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
8 Meter 350G Mast				
Primary & Secondary Guying				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
145 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

7 Meter System - Specifications

Fully Operational		Survivable	Mast Failure	
7 Meter 350G Mast				
Primary Guying Only				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
155 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
7 Meter 350G Mast				
Primary & Secondary Guying				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
155 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

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350G XL Lift Series - Load Tables

6 Meter System - Specifications

Fully Operational	Survivable	Mast Failure
6 Meter 350G Mast		
Primary Guying Only		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
165 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

Fully Operational	Survivable	Mast Failure
6 Meter 350G Mast		
Primary & Secondary Guying		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
165 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

5 Meter System - Specifications

Fully Operational	Survivable	Mast Failure
5 Meter 350G Mast		
Primary Guying Only		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
170 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 Sq. Ft. Panel	30% Guy Distance	
	50% Guy Distance	
	80% Guy Distance	

Fully Operational	Survivable	Mast Failure
5 Meter 350G Mast		
Primary & Secondary Guying		
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes		
170 Lbs. Deployed		
Wind Speed (mph)		7090
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	
4 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.

350G XL Lift Series - Load Tables

4 Meter System - Specifications

Fully Operational		Survivable	Mast Failure	
4 Meter 350G Mast				
Primary Guying Only				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
175 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
4 Meter 350G Mast				
Primary & Secondary Guying				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
175 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

3 Meter System - Specifications

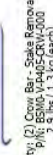
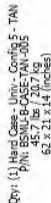
Fully Operational		Survivable	Mast Failure	
3 Meter 350G Mast				
Primary Guying Only				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
180 Lbs. Deployed				
Wind Speed (mph)		70	90	
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy 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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
3 Meter 350G Mast				
Primary & Secondary Guying				
Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes				
180 Lbs. Deployed				
Wind Speed (mph)		70	90	
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			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Anatomy of an 350G XL - Lift Series Tripod



6411



ity: (1) Hammer - 4 lbs.
ity: BSM2-V-P350-HMR-ES4
4.0 lbs / 1.8 kg



Qty: (1) Hammer - 4 lbs.
P/N: BSM2-V-P350-HMR-ES4
4.0 lbs / 1.8 kg

Qty: (1) Winch - Handle
P/N: BSM2-P-W500-HDL-010
0.5 lbs / 0.3 kg

Qty: (1) Bag - Ptl & Sec Gyring
P/N: BSMU-B-AL28-W15-003
2.0 lbs / 0.9 kg



Qty: (1) Bag - Pri & Sec Gyring
P/N: BSMU-BAL28-V15-003
2.0 lbs / 0.9 kg

Stake - Universal - Tripod - XL
N: BSM2-P-5800-STA-OXL
1.4 lbs / 0.6 kg (each)

(4) Stake - Guying - Heavy - XL
p/N: B5MU-p-G17C-HV-0XL
3.3 lbs / 1.5 kg (each)

Qty: (1) Base Plate - Lift Kit - XL
P/N: BSM3-P-T705-BSP-OXL
2.3 lbs / 1.0 kg

erty: (1) Secondary Guy Ring - AL
P/N: BSM3-A-M100-RNG-CLO
1.5 lbs / 0.7 kg

Qty: (1) Primary Guy Ring - AL3
P/N: BSM3-A-M100-RING-PN0
1.0 lbs / 0.4 kg

Qty: (1) 15M - GUY LEADER
P/N: BSMU-p-G615-LDR-ORG
0.6 lbs / 0.3 kg

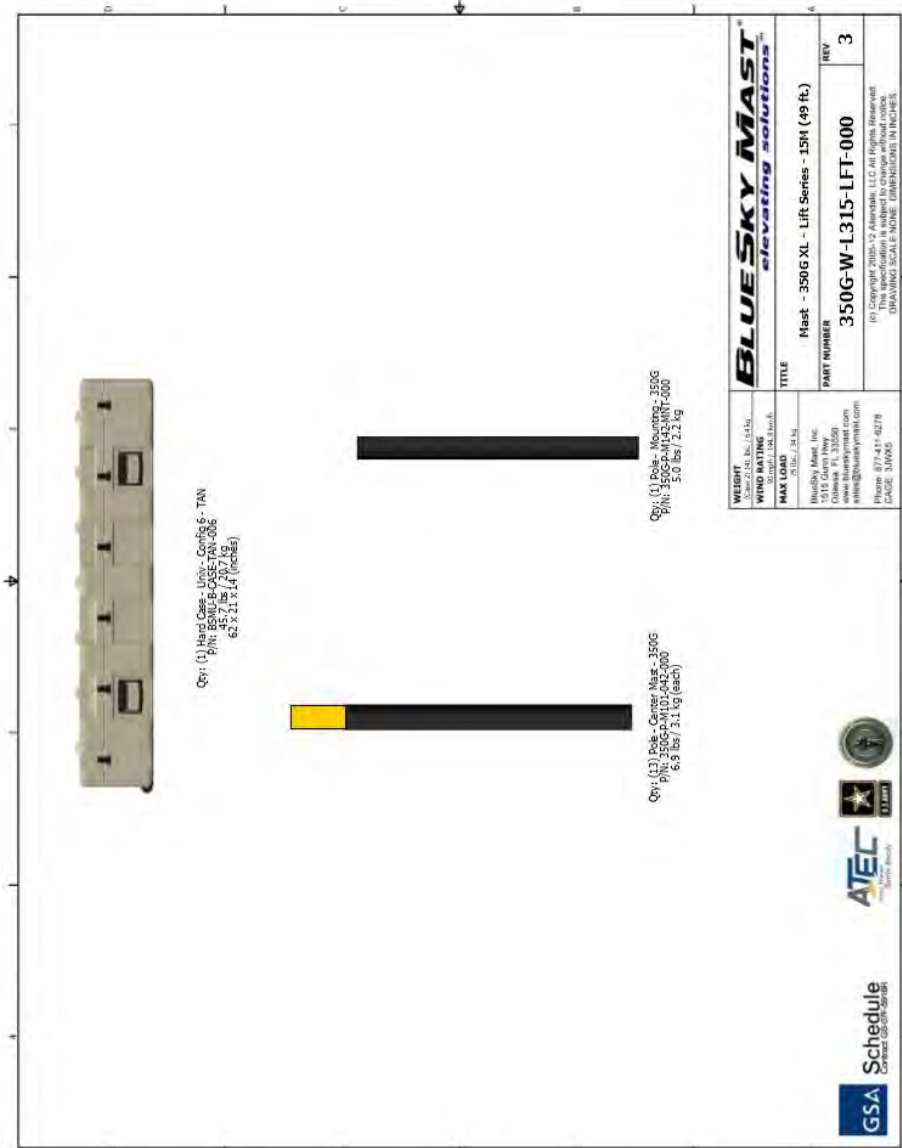
 Velcro Cable Management
p/n: BSML-V-P410-VLC-000
15 per kit

15M - Guy Rope w/ Cleat- Sec
P/N: 350G-PGC15-2ND-BLU
1.4 lbs / 0.6 kg (each)

15M - Guy Rope w/ Claat- Prip/N: 350G-p-GC15-pRI-RED
1.4 lbs / 0.6 kg (each)

WEIGHT (Gross) 1325 lbs. 595 kg		BLUE SKY MAST[®] <i>elevating solutions</i>
WIND AREA (Projected) 15.5 sq. ft. 1.43 sq. m.		
MAX LOAD (Gross) 3500 lbs. 1588 kg		
TITLE		
PART NUMBER		
REV		

350G XL Lift Series - 15M Datasheet (Case #2 of 2)



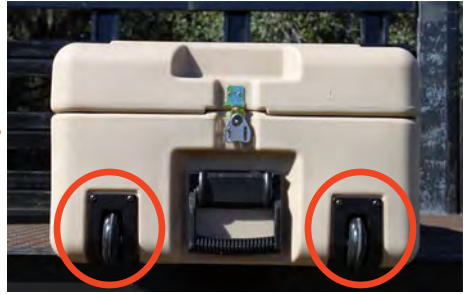
Load / Unload 350G XL Lift Series Mast System Case

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 350G XL 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

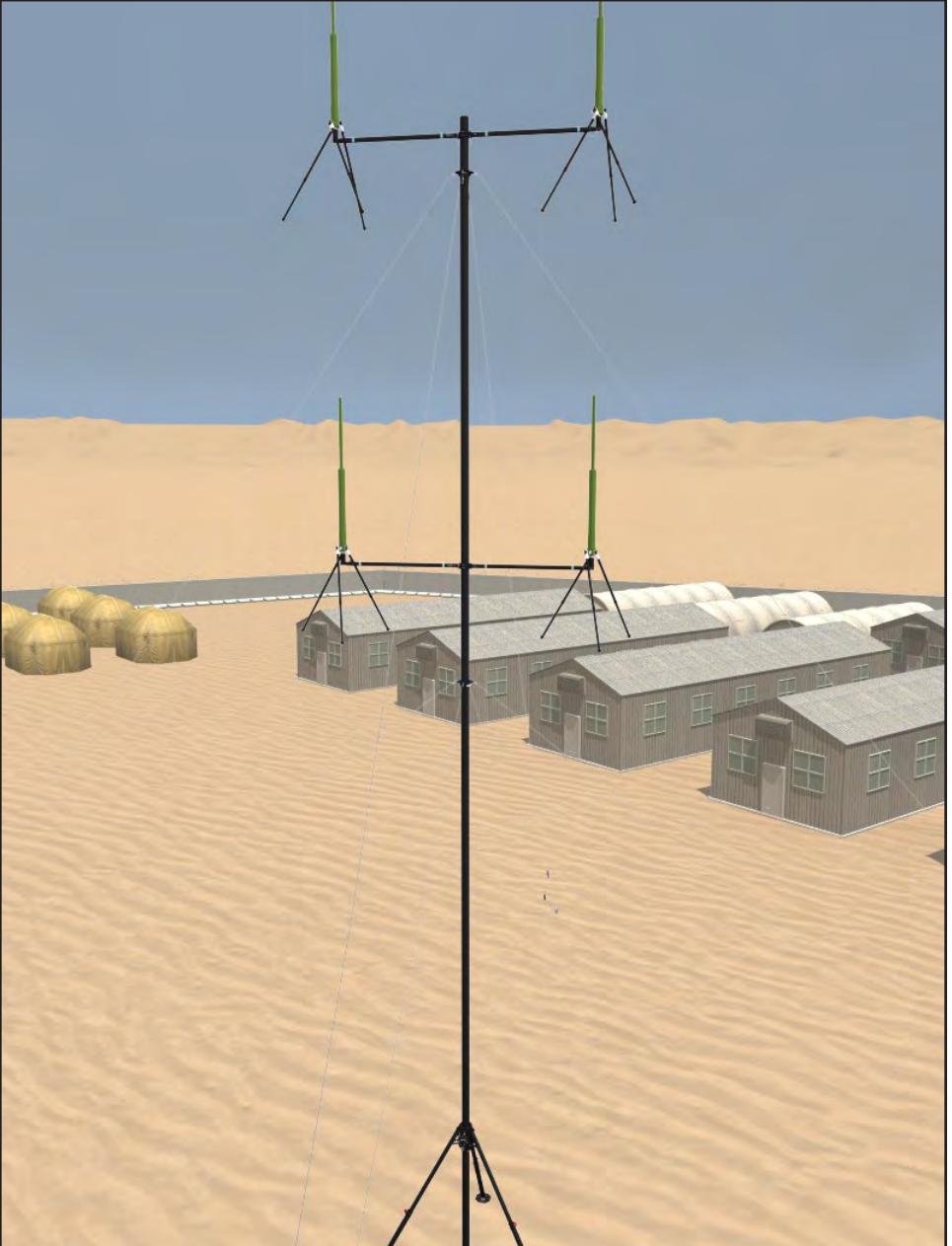
350G XL Lift Series - User Manual (Primary & Secondary Guying)

Deploying the 350G XL - Lift Series Mast System With Primary and Secondary Guying

Expert Users - 2 People - 25 Minutes

Novice Users - 2 People - 45 Minutes

350G XL Lift Series - User Manual (Primary & Secondary Guying)



350G XL Lift Series - User Manual (Primary & Secondary Guying)

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) Setting Up and Orienting the Tripod.

- A) Locate the Tripod in Hard Case One and stand the tripod up on the ground with the Tilt Leg (opposite the winch) facing in the same direction that you want your equipment to point.
- B) Loosen the red turn knobs on the cross links of each tripod leg to extend the legs.



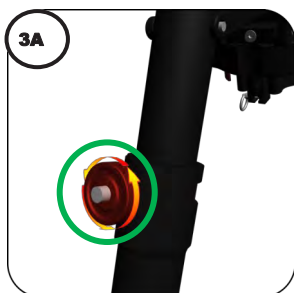
- C) Slowly push down on the red turn knobs while pulling the leg out to extend it.
- D) Push the cross links all the way down and tighten the turn knobs to secure them.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

3) Extending the Two Tripod Legs opposite the Tilt Leg.

- A) One at a time, fully extend the two tripod legs adjacent to the winch by loosening the turn knobs on the tripod legs. **DO NOT EXTEND** the Tilt Leg, opposite the winch at this time.
- B) Once fully extended, lock them in place by tightening the turn knobs on each leg.



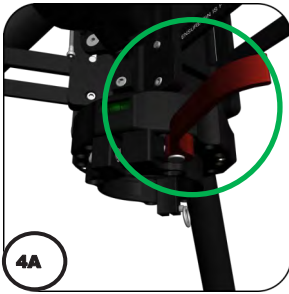
- C) Make sure all tripod base plates are level and flat on the ground.
- D) Locate the stake bag with the tripod stakes and hammer.
- E) Drive a **SINGLE** tripod stake at a slight angle into the **LEFT SIDE** of each of the two base plates on the **TWO EXTENDED LEGS ONLY**. Do not drive a stake into the right side of the base plates at this time.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

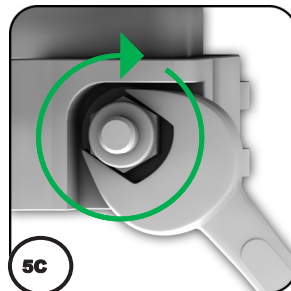
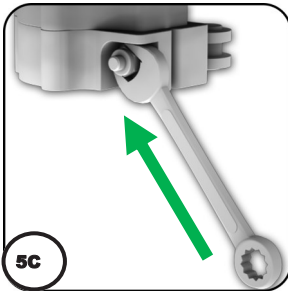
4) Inserting the Mounting Pole.

- A) Release the Cam Lock on the bottom of the tripod.
- B) Locate the Mounting Pole in Hard Case #2. (The Mounting Pole is the only pole without a gold insert).
- C) Insert it into the top of the tripod with the castle cut on the bottom of the pole until the first hole on the Mounting Pole is visible below the Cam Lock, then lock the Cam Lock.



5) Cam Lock Maintenance

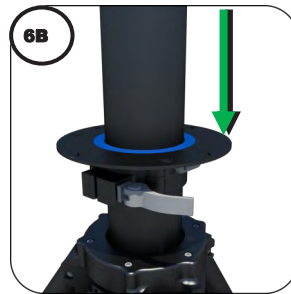
- ⚠ A) SAFETY:** If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.
- B) If slipping occurs after center mast poles have been deployed, lower the mast so that it contacts the ground.
- C) Tighten the nut on the Cam Lock a quarter of a turn until slipping no longer occurs.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

6) Adding the Primary and Secondary Guy Ring.

- A) Locate the **Blue Secondary Guy Ring** located in the bag marked GUYING.
- 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** located in the bag marked GUYING.
- 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.

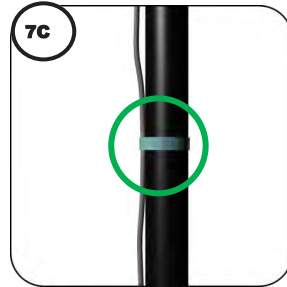


350G XL Lift Series - User Manual (Primary & Secondary Guying)

7) Attaching Your Equipment.

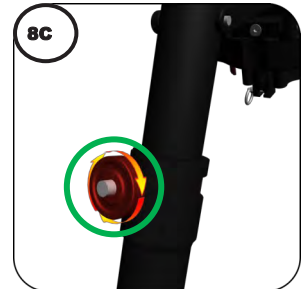
- A) Attach your equipment to the Mounting Pole.
- B) Properly adjust and secure your equipment and connect any cables at this time.

⚠ 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.



8) Raise the Tilt Leg.

- A) Loosen the Turn Knob on the Tilt Leg.
- B) Push the tripod upright and then extend the Tilt Leg fully.
- C) Tighten the Turn Knob.

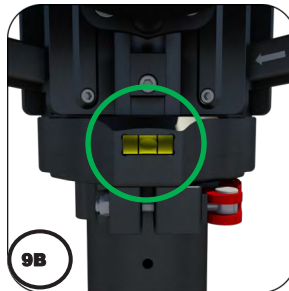


350G XL Lift Series - User Manual (Primary & Secondary Guying)

9) 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.



10) Securing the Tripod.

- A) Drive tripod stakes in at a slight angle (opposite directions) into the remaining holes on all three tripod leg base plates.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

11) Attaching the Winch Handle.

- A) Locate the Winch Handle (located in the large black accessory bag).
- B) Pull the Quick Release Pin on the front of the Winch. Slide the Winch Handle into the slot. Release the pin and lock the handle into place.



12) Attaching the Lift Base Plate.

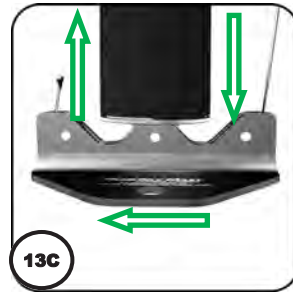
- A) Locate the Lift Base Plate (located in the large black accessory bag).
- B) Insert it into the bottom of the Mounting Pole.
- C) Align the Lift Base Plate so that the rollers on the plate are in line with the Winch and the Tilt Leg.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

13) Attaching and Securing the Winch Cable.

- A) Turn the Winch Handle counter-clockwise paying out about three feet of cable.
- 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.
- A) 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 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.

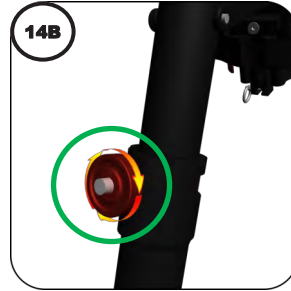
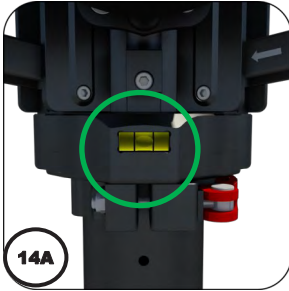
- G) Remove the slack in the cable by cranking the winch handle clockwise until the Lift Base Plate is seated securely in the bottom of the Mounting Pole.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

14) 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.



15) Raising the Mounting Pole.

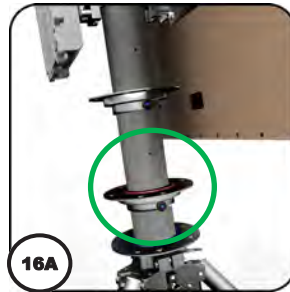
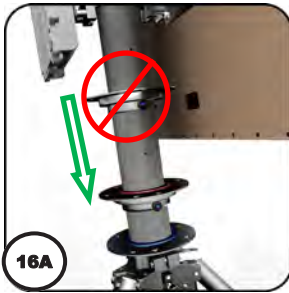
- A) Make sure that the cable is taut and the Lift Base Plate is secure in the bottom of the Mounting Pole.
- B) Release the Cam Lock on the bottom of the tripod.
- C) Raise the Mounting Pole by cranking the winch handle clockwise until the bottom of the Mounting Pole is within one inch of the bottom of the tripod.
- D) Secure the Mounting Pole by locking the Cam Lock on the tripod.
- ⚠ E) **SAFETY:** When raising the poles, make sure there is always one inch of the pole visible beneath the bottom of the tripod before securing the Cam Lock.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

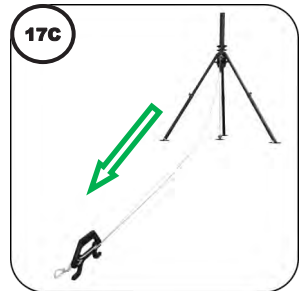
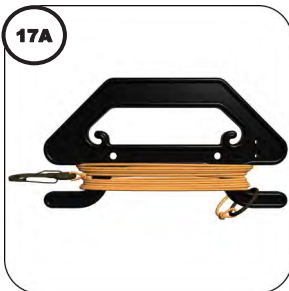
16) Securing the Primary Guy Ring.

- 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 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 to 15M mark on the guy leader.



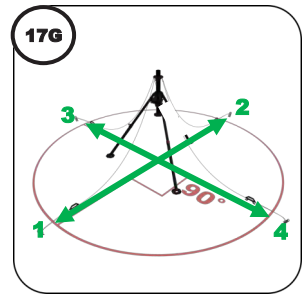
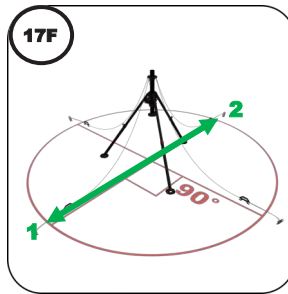
350G XL Lift Series - User Manual (Primary & Secondary Guying)

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

- D) PERSON #2 - Locate the 4 Large Guy Stakes and hammer and follow Person #1



- E) Guy Stake #1 - At the 15M 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 15M mark on the Guy Leader.
- G) Repeat this process until all 4 guy stakes have been deployed 90 degrees apart.

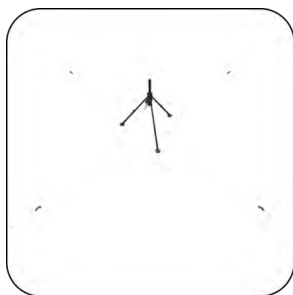


350G XL Lift Series - User Manual (Primary & Secondary Guying)

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

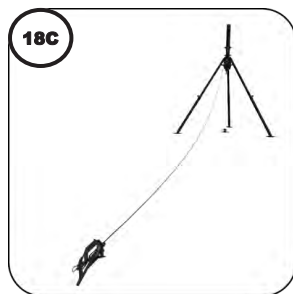
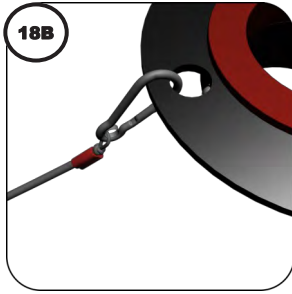
NOTE: If you have lost or do not have a GUY LEADER to mark your guy stakes, start at the center of the tripod and take One NORMAL Step per meter of system height away from the mast. Do not exaggerate your steps, take one NORMAL step per meter of height.

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.

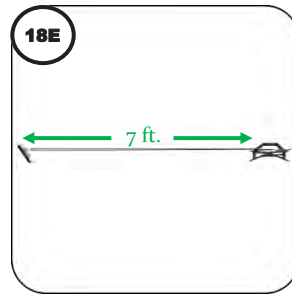
- A) Locate the 4 Primary Guy Ropes with Red Tabs next to the guy clip.
- B) Remove the guy leader and clip the first primary guy rope to the round hole on the primary guy ring.
- C) Unwind the guy rope from the guy handle while walking away from the mast and towards the first guy stake.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

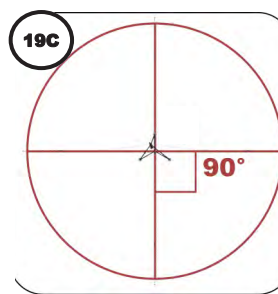
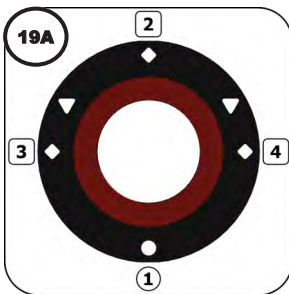
18) Primary Guying - Continued...

- 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.
- 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.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

20) 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.
- ⚠ C) SAFETY:** If slipping occurs check that the Cam Lock is locked. If it is locked, refer to the “Cam Lock Maintenance” on Page 24.
- D) Continue lowering the Lift Base Plate until it rest flat on the ground.



21) Inserting the First Center Mast Pole.

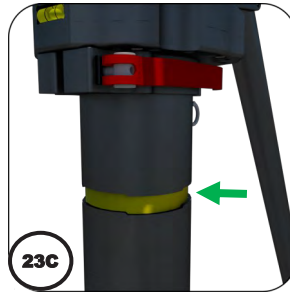
- A) Locate a Center Mast Pole (with the gold insert) in Hard Case #2 and insert the bottom of the Center Mast Pole onto the tapered cone of the Lift Base Plate.
- B) **THIS IS A ONE PERSON OPERATION** - Slowly crank the winch handle with one hand while using the other hand to gently guide the gold insert of the Center Mast Pole into the bottom of the Mounting Pole.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

21) Inserting the First Center Mast Pole - Continued...

- B) Make sure the poles nest together fully and no gold is showing in the seam.



22) Lifting the Center Mast Pole.

- A) Make sure that the cable is taut and straight. If the 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 within one inch of the bottom of the tripod.
- C) Lock the Cam Lock on the tripod.
- D) Repeat this process of 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

350G XL Lift Series - User Manual (Primary & Secondary Guying)

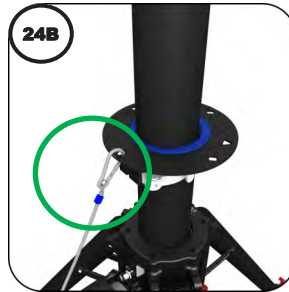
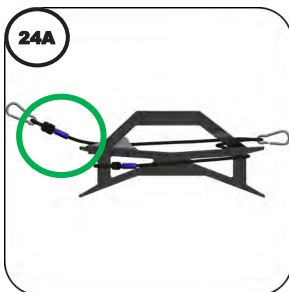
23) Secondary Guying - Securing the Secondary Guy Ring.

- A) When you have deployed the mast half way, stop and lock the Cam Lock on the bottom of the tripod. **Helpful Hint: A 15M system has 14 poles.**
- B) Locate the **Blue Secondary Guy Ring** on top of the tripod and lock the Cam Lock.
- ⚠ C) SAFETY:** Make sure that the Cam Lock is fully locked and that the safety is covering the Cam Lock Lever. This will prevent a guy rope from accidentally unlocking the Blue Secondary Guy Ring during deployment.



24) Secondary Guying - Deploying the Secondary Guy Ropes

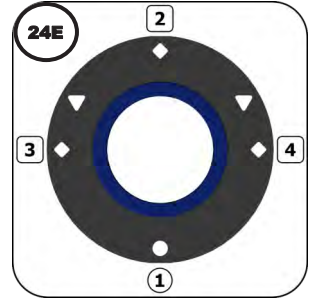
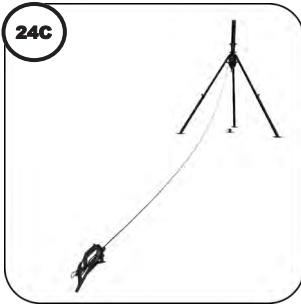
- A) Locate the four Secondary Guy Ropes with Blue Tabs next to the guy clip in the bag marked GUYING.
- B) Attach the stainless steel clip on the free end of the 1st Secondary Guy Rope to the round hole on the Blue Secondary Guy Ring.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

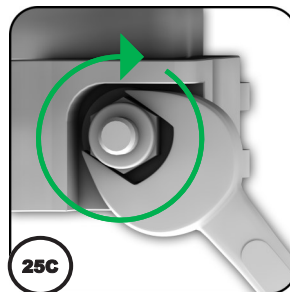
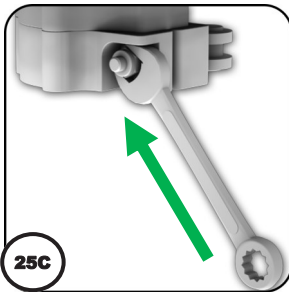
24) Secondary Guying - Continued...

- 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



25) Continue to raise the Mast Poles - Incremental Guying may be required.

- 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) If slipping occurs after center mast poles have been deployed, lower the mast so that it contacts the ground.
- C) Tighten the nut on the Cam Lock a quarter of a turn until slipping no longer occurs.



350G XL Lift Series - User Manual (Primary & Secondary Guying)

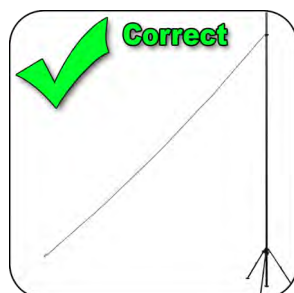
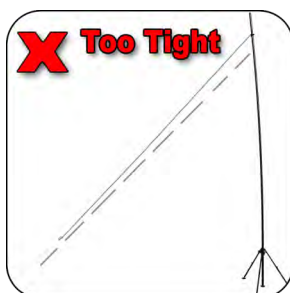
Incremental Guying - Why is it Important?

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:

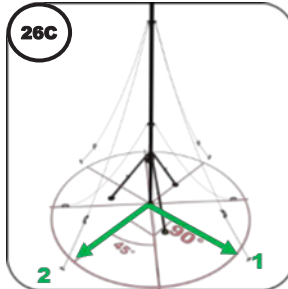
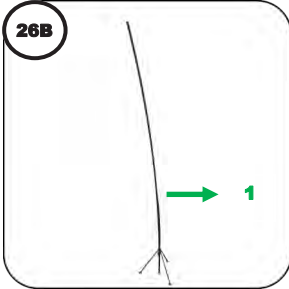
Guide the cable on the winch to avoid stack up and jumping.

Secure all cables using the Velcro Straps

Always monitor your Guy Wires

350G XL Lift Series - User Manual (Primary & Secondary Guying)**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.



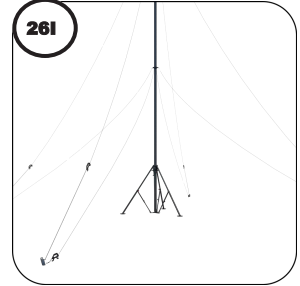
- F) Now loosen the primary guy ropes (**based on the length of the pole below the cam lock**). See examples below. If the length of the pole under the cam lock is 1 foot - slide the handle back 1 foot on each of the 4 primary guy ropes. This will allow you enough room to raise the mast 1 foot and prepare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



350G XL Lift Series - User Manual (Primary & Secondary Guying)

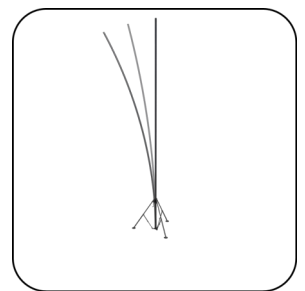
26) Incremental Guying - Continued...

- G) Release the cam lock and raise the mast until 1 inch is 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.

350G XL Lift Series - User Manual (Primary & Secondary Guying)

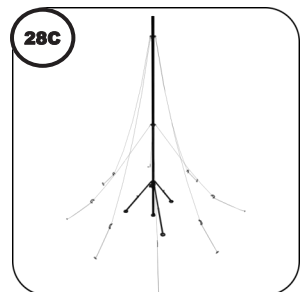
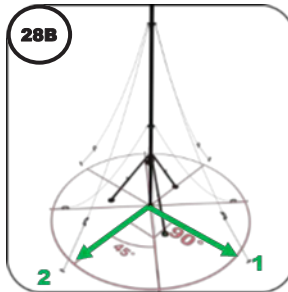
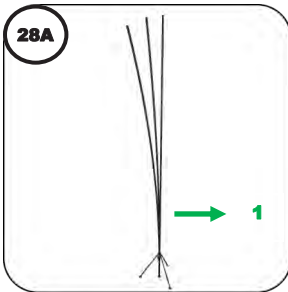
27) Deploying the last center mast pole.

- A) Insert the bottom of the last mast pole onto the Lift Base Plate.
- B) Raise the mast pole until it nest into the previous mast pole.
- C) Release the came lock and slowly lower the mast pole to the ground.
- D) Lock the cam lock.



28) Adjusting the Primary Guy Ropes (2 ppl)

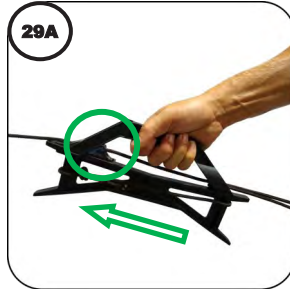
- A) If the mast is leaning, Person #1 should go to the guy rope opposite the lean.
- B) Person #2 should go to the guy rope that is 90 degrees from person #1. This will allow you to see how far each guy rope needs to be adjusted to get the mast straight and perpendicular. Rotate to the other guy ropes to continue adjustment.
- C) It may take a couple rotations on the guy ropes to get the mast straight and perpendicular



350G XL Lift Series - User Manual (Primary & Secondary Guying)

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



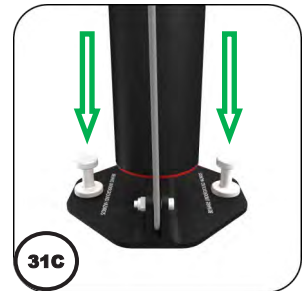
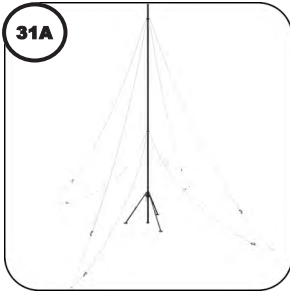
30) Adjust and Lock the Secondary Guy Ropes

- A) Repeat the process above for the secondary guy ropes.

350G XL Lift Series - User Manual (Primary & Secondary Guying)

31) Stake the Lift Kit 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 stakes into the lift kit base plate to secure it.



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

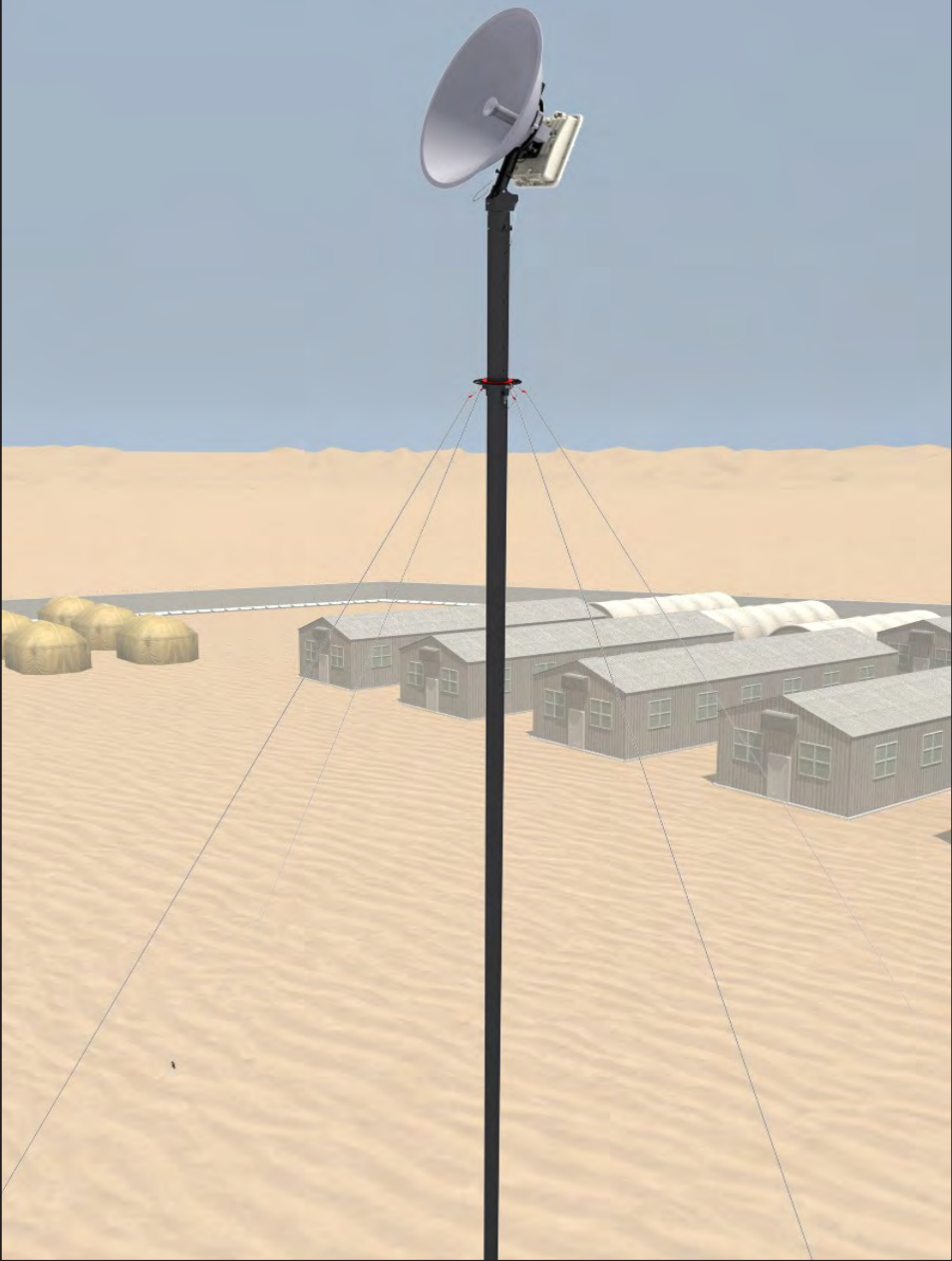
- A) The BlueSky Surface Wire Grounding Kit (additional accessory) can be deployed at this time if available when lightning or static discharge is a safety concern.



33) 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 Hard Cases in a safe place for easy retrieval.

350G XL Lift Series - User Manual (Primary & Secondary Guying)



350G XL Lift Series - Mast Lowering / Recovery

Lowering / Recovery
350G XL - Lift Series Mast System
Primary & Secondary Guying

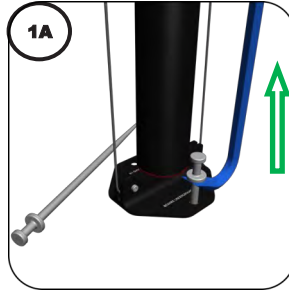
Expert Users - 2 People - 25 Minutes

Novice Users - 2 People - 45 Minutes

350G XL Lift Series - Mast Lowering / Recovery

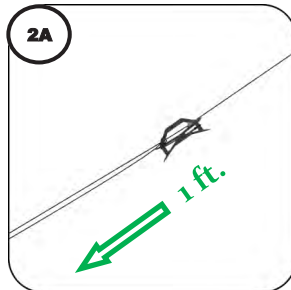
1) Removing the Lift Base Plate Stakes.

- A) Locate the Crow Bar or Stake Pullers included with the system and remove the two stakes from the lift kit base plate.



2) Loosening the Primary and Secondary Guy Ropes

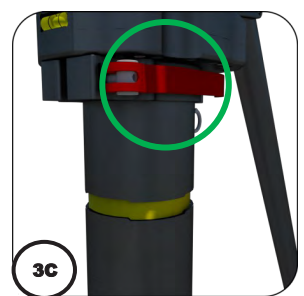
- A) Unlock the Primary and Secondary Guy Ropes and slide the Handle away from the mast approx. ONE FOOT (12 Inches)
- B) DO NOT loosen the guy ropes more than ONE FOOT (12 inches)
One foot (12 inches) is all you need to raise the mast and remove the first mast pole.



350G XL Lift Series - Mast Lowering / Recovery

3) Raising the Mast Pole.

- A) Release the Cam Lock
- B) Raise the mast approx. one foot (12 inches) by SLOWLY turning the Winch Handle clockwise until there is only one inch of the top of the mast pole visible below the cam lock.
- C) 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.



350G XL Lift Series - Mast Lowering / Recovery

4) Removing the Mast Pole - Continued...

- C) Step on the lift base plate, remove the Mast Pole and stow it in the Hard 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 one inch of the next mast pole is showing below the cam lock. The mast will begin to lean.
- B) Lock the cam lock, remove the mast pole and store it in Hard Case #2
- C) Raise the lift kit base plate until it nests firmly into the next mast pole.
- D) **SEE NEXT STEP - ADJUSTING THE PRIMARY GUY ROPES**

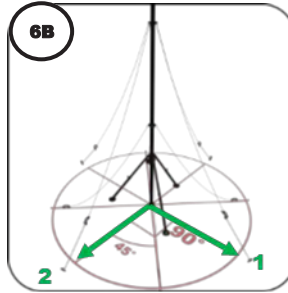
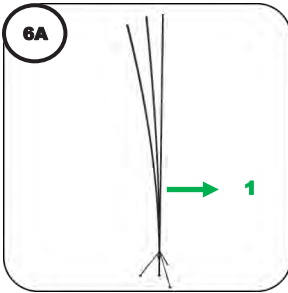


350G XL Lift Series - Mast Lowering / Recovery

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

6) Adjusting 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.



7) Lowering the Next Center Mast Pole.

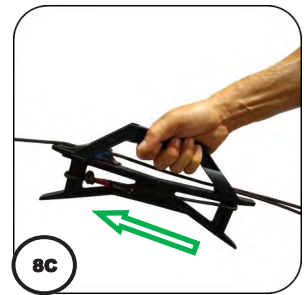
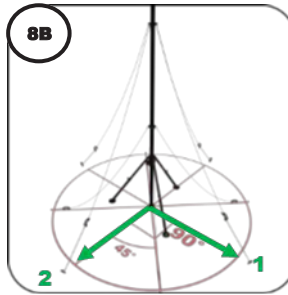
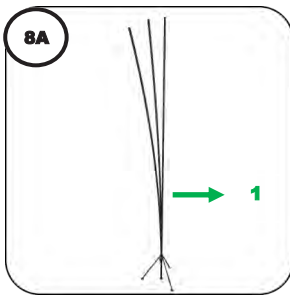
- A) Release the Cam Lock and SLOWLY lower the mast until one inch of the next mast pole is showing below the cam lock.
- B) Lock the cam lock, remove the mast pole and store it in Hard Case #2
- C) Raise the lift kit base plate until it nests firmly into the next mast pole.



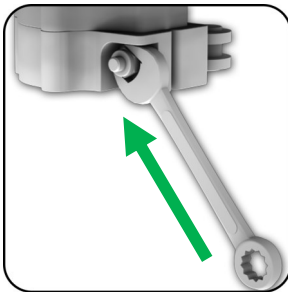
350G XL Lift Series - Mast Lowering / Recovery

8) Adjusting 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 7 & 8 UNTIL YOU REACH THE SECONDARY GUY RING**



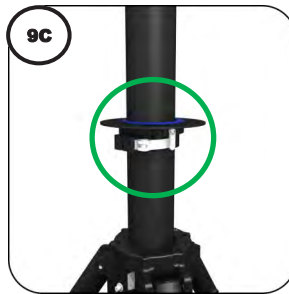
- ⚠ A) SAFETY:** If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.
- B) If slipping occurs after center mast poles have been deployed, lower the mast so that it contacts the ground.
- C) Tighten the nut on the Cam Lock a quarter of a turn until slipping no longer occurs.



350G XL Lift Series - Mast Lowering / Recovery

9) 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 slake and wind the loose rope back onto the handle, then place them into the bag marked GUYING.
- C) Release the Cam Lock on the Blue Secondary Guy Ring and allow it to rest on top of the Tripod.



10) Removing the Primary Guy Ropes.

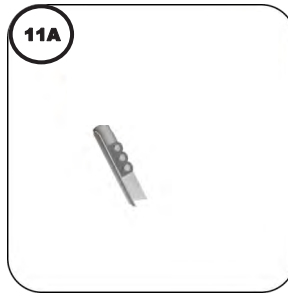
- A) Continue lowering the mast until the Red Primary Guy Ring is easily within reach.
- B) Remove the Primary Guy Ropes, pull in all the slake and wind all of the rope onto the handle and place all 4 into the bag marked GUYING.



350G XL Lift Series - Mast Lowering / Recovery

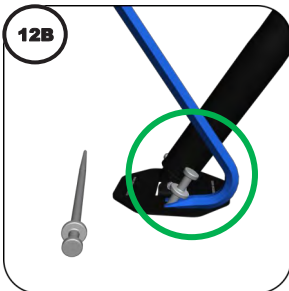
11) Remove the Guy Stakes

- A) Use the hammer to tap each side of the stake & front and back to loosen and remove the stakes.
- B) Place the stakes back into the large stake bag.



12) Lowering the Tripod.

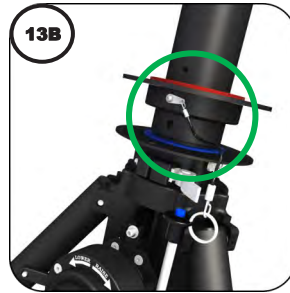
- A) Use the Crow Bar or Stake Puller to remove both stakes in the Tilt Leg Base Plate opposite the winch.
- B) Use the Crow Bar or Stake Puller to remove a single stake on the right side of each of the remaining two base plates.
- C) Loosen the Turn Knob on the Tilt Leg of the Tripod and gently allow the tripod to kneel until the Tilt Leg has been fully collapsed.



350G XL Lift Series - Mast Lowering / Recovery

13) 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 the bag marked GUYING.



14) 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 the black accessory bag.
- B) Release the Cam Lock and Place the Mounting Pole into Hard Case #2.
- C) Lock the cam lock
- D) Remove the remaining Tripod Stakes and put them back in the stake kit bag.
- E) Collapse the two extended Tripod Legs and tighten the turn knobs.



350G XL Lift Series - Stowing and Packing the System

15) Collapse and stow the tripod.

- A. One at a time loosen the red turn knobs on the cross links and slowly pull up on the red turn knob while pushing the leg inward.

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



- C) Tighten the red turn knobs to secure the tripod legs and stow the tripod in case #1

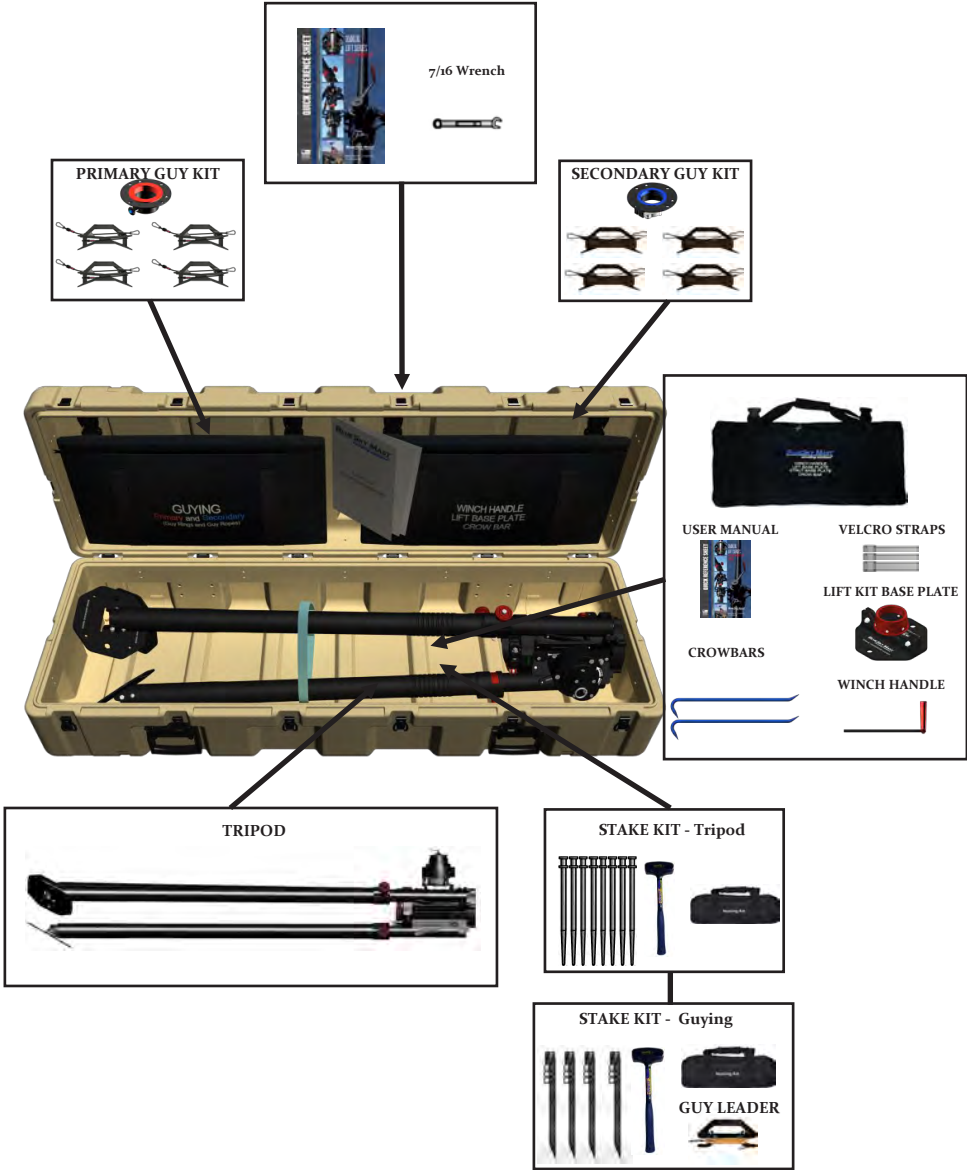


16) Stow Loose Gear and Police the Area.

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

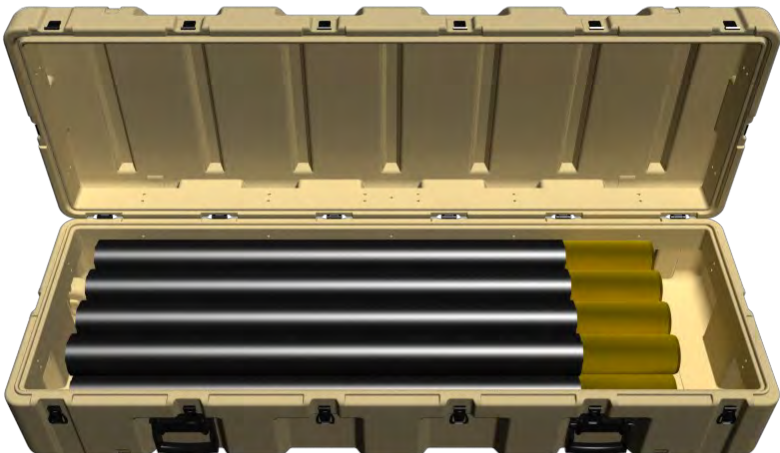
350G XL Lift Series - Stowing and Packing the System

15M System - HARD CASE #1

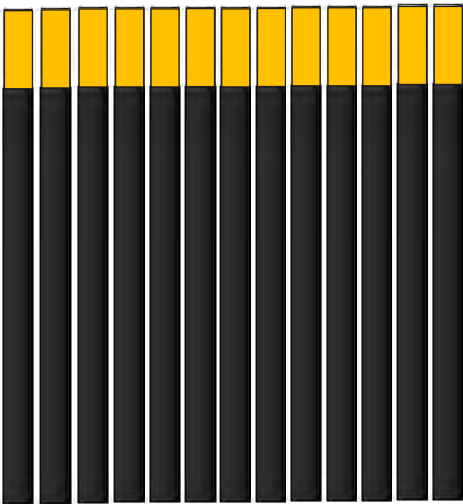


350G XL Lift Series - Stowing and Packing the System

15M System - HARD CASE #2



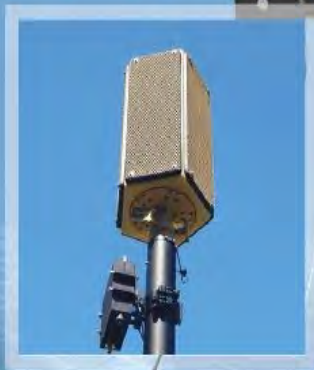
MOUNTING POLE



CENTER MAST POLES

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.





Top Plates & Adaptors

These items include a pin on adaptor to mount on top of our AL3 mast system.



OE-254 & COM201 Antennas
BSM3-K-M400-OE2-000



Manual Tilt Assembly with Mounting Pole
BSM3-K-M650-TLT-000



Pan & Tilt for Quickset QPT & FLIR
BSM3-A-M460-MPP-00A



Cross Pattern 6 x 6
BSM3-A-M550-MPP-00A



Cross Pattern 8 x 10
BSM3-A-M408-MPP-00A



NATO-SINGARS-EPLRS
BSM3-A-M305-NT0-00A



Solid 7.5 x 7.5 Inch
BSM3-A-M407-MPP-00A



Solid 11.5 x 11.5 Inch
BSM3-A-M411-MPP-00A



Radar 8 x 11 Inch
BSM3-A-M400-MPP-RDA



Top Plates & Adaptors

These items include a pin on adaptor to mount on top of our AL3 mast system.



KVH TracPhone TPV 3-7, TVHD 11
BSM3-K-M309-MPP-TRC



Cisco 1500 Series
BSM3-A-M410-CSC-00A



Tampa Microwave
BSM3-A-M410-MPA-TML



G2 Magnetic Mount
BSM3-A-M325-MAG-00A



BMS GPS & RF Tracking, GTA 17/58
BSM3-A-M365-BMS-00A



TCS SwiftPoint 360
BSM3-A-M500-TCS-00A



PSL-DF Device
BSM3-A-M415-MPP-00A



Pin On Threaded Adapter
BSM3-P-M510-PIN-000



Mobile Mark Omni Antenna
BSM3-A-M718-MPP-00A

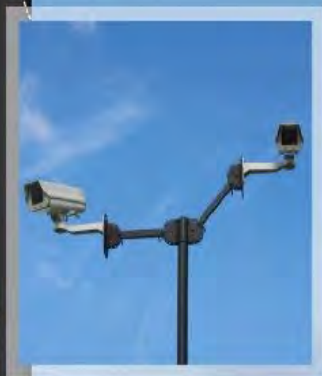
BLUE SKY MAST
*elevating solutions*SM

www.blueskymast.com | 877-411-6287

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.





Side Arm Kits

These Side Arm Kits can be mounted anywhere on an AL3 mast system (Based on system height and payload).

DUAL

STRAIGHT ARM KIT - DUAL - COM201/OE-254



(1) Side Arm Mount - 1.5 in. COM201 / OE-254
P/N: BSM3-K-M400-OE2-EMO

(1) AL3 Pole Mount - Two sided
P/N: BSM3-P-A352-T00-100



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

ARM LENGTH

48 in.

PART NUMBER

BSM3-K-A352-S48-OE2

(2) Straight Arm Bracket w/1.5 in. Side Arm (48 in.)
P/N: BSMU-P-A344-ARM-155

DUAL

STRAIGHT ARM KIT - DUAL - NATO



(1) AL3 Pole Mount - Two sided
P/N: BSM3-P-A352-T00-100

(1) Side Arm Mount - 1 in. NATO-SINGARS-EPLRS
P/N: BSM3-A-M305-NT0-EMO



ARM LENGTH (inches)

24 in.

PART NUMBER

BSM3-K-A352-S24-NT0

36 in.

BSM3-K-A352-S36-NT0

48 in.

BSM3-K-A352-S48-NT0

(2) Straight Arm Bracket w/1.5 in. Side Arm (24, 36, 48 in.)

SINGLE ARM



DOUBLE ARM



THREE WAY ARM



Side Arm Kits

These Side Arm Kits can be mounted anywhere on an AL3 mast system (Based on system height and payload).

SINGLE



(1) AL3 Pole Mount - Two Sided

P/N: BSM3-P-A352-T00-000

(2) Straight Arm Bracket w/1.5 in. Side Arm (6 to 48 in.)

P/N: BSMU-P-A3XX-ARM-15S

NOT INCLUDED: 1.5 in. Side Arm Mount (See optional side arm mounts)

STRAIGHT ARM KIT - SINGLE - NO SIDE MOUNT

ARM LENGTH (inches)	PART NUMBER
6 in.	BSM3-K-A351-S06-150
12 in.	BSM3-K-A351-S12-150
24 in.	BSM3-K-A351-S24-150
36 in.	BSM3-K-A351-S36-150
48 in.	BSM3-K-A351-S48-150

DUAL



(1) AL3 Pole Mount - Two Sided

P/N: BSM3-P-A352-T00-000

(2) Straight Arm Bracket w/1.5 in. Side Arm (6 to 48 in.)

P/N: BSMU-P-A3XX-ARM-15S

NOT INCLUDED: 1.5 in. Side Arm Mount (See optional side arm mounts)

STRAIGHT ARM KIT - DUAL - NO SIDE MOUNT

ARM LENGTH (inches)	PART NUMBER
6 in.	BSM3-K-A352-S06-150
12 in.	BSM3-K-A352-S12-150
24 in.	BSM3-K-A352-S24-150
36 in.	BSM3-K-A352-S36-150
48 in.	BSM3-K-A352-S48-150

THREE WAY



(1) AL3 Pole Mount - Sided

P/N: BSM3-P-A352-T00-000

(3) Straight Arm Bracket w/1.5 in. Side Arm (6 to 48 in.)

P/N: BSMU-P-A3XX-ARM-15S

NOT INCLUDED: 1.5 in. Side Arm Mount (See optional side arm mounts)

STRAIGHT ARM KIT - THREE WAY - NO SIDE MOUNT

ARM LENGTH (inches)	PART NUMBER
6 in.	BSM3-K-A353-S06-150
12 in.	BSM3-K-A353-S12-150
24 in.	BSM3-K-A353-S24-150
36 in.	BSM3-K-A353-S36-150
48 in.	BSM3-K-A353-S44-150



Side Arm Mounts

These Side Arm Mounts can be used with all AL3 side arm kits (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-NT0-EM5



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

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

BLUE SKY MAST®

elevating solutions™

www.blueskymast.com | 877-411-6287



Side Arm Mounts

These Side Arm Mounts can be used with all AL3 side arm kits *(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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elevating solutions™

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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.





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 - AL3 BSM3-P-A352-T00-000



Patented BlueSky Mast Interface



Pole Mount - Three Sided AL3 - BSM3-P-A353-T00-000



Patented BlueSky Mast Interface





Plate Brackets

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

FRONT OF PLATE

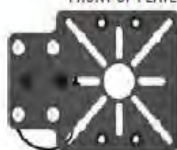
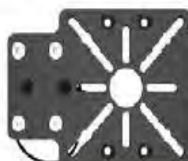


PLATE BRACKET ON POLE MOUNT

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



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



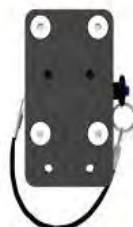
Cambium/Motorola Radio & LPU
BSM2-A-M415-MOT-BRK



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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www.blueskymast.com | 877-411-6287



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



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



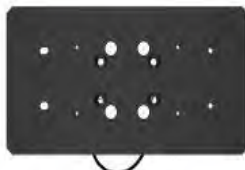
Rajant PC Tel Sector Antenna
BSMU-A-M587-RAJ-BRK



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



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



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



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



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



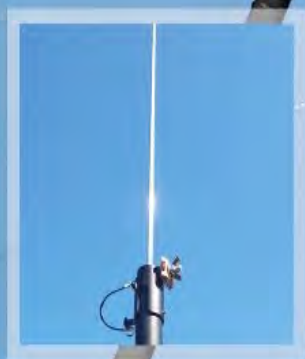
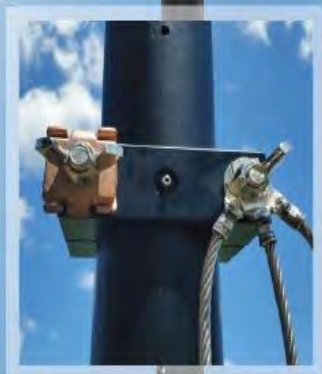
C2M2 Transceiver
BSMU-A-M525-C2M-BRK

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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.



Certified Grounding & Lightning Protection

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

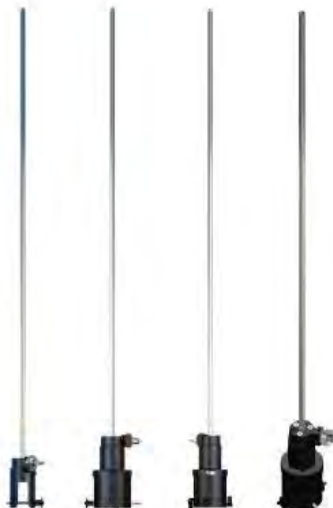
GROUNDING



Surface Wire Grounding Kit - AL3
BST3-K-L104-GND-000



LIGHTNING PROTECTION



Pin On Lightning Air Terminal - AL3
BST3-K-L102-GND-000



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DUNS Number: 137469404

