

Standard Series Manual

Rev. 04112011

One Mast.
Infinite Configurations.



BlueSky Mast Standard Series

USERS MANUAL



Standard Series Manual

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Standard Series Manual

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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Or

Phone: 877-411-6278
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email: support@blueskymast.com

Cage Code: 3JWX5

DUNS Number: 137469404

We will send you a reply concerning incorporating your suggestions. Thank You.

Standard Series Manual

Limited Twelve (12) 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.

Standard Series Manual - Safety Precautions

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.

Standard Series Manual - Safety Precautions

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.

Standard Series Manual - Safety Precautions

Important Safety Precautions

Part III: Wind Conditions

- BlueSky Mast recommends that you do not to attempt to actively deploy in winds that exceed 15 mph.
- 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 this chart to determine approximate 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

Payload Capacity - Wind Load - Anchor Radius

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.

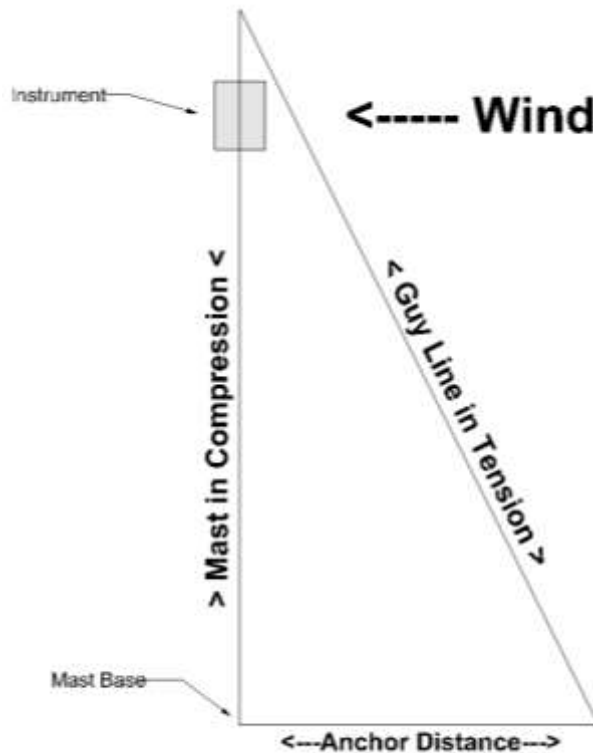
Mast Model	Height (ft.)	AL1 Deployable Load (lbs.)	AL2 Deployable Load (lbs.)
2 Meter	7.5 ft.	50	100
3 Meter	10.5 ft.	47.5	85
4 Meter	13.5 ft.	45	70
5 Meter	16.5 ft.	42.5	65
6 Meter	19.5 ft.	40	60
7 Meter	22.5 ft.	37.5	57.5
8 Meter	25.5 ft.	35	55
9 Meter	28.5 ft.	32.5	52.5
10 Meter	31.5 ft.	30	50
11 Meter	34.5 ft.	25	40
12 Meter	37.5 ft.	20	35
13 Meter	40.5 ft.	15	30
14 Meter	43.5 ft.	12.5	25
15 Meter	46.5 ft.	10	20

Payload Capacity - Wind Load - Anchor Radius

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.



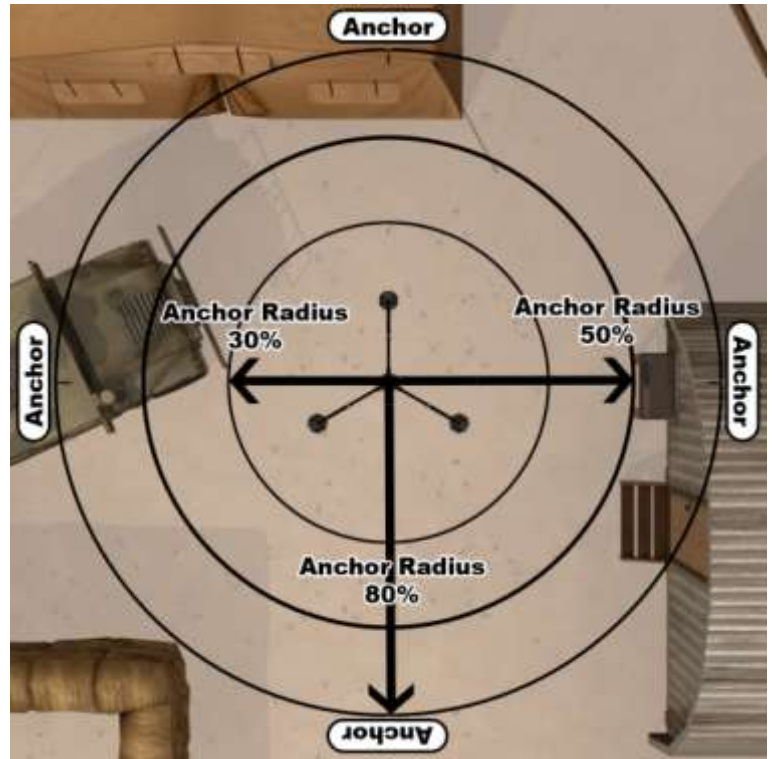
Guying

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.

Payload Capacity - Wind Load - Anchor Radius

Anchor Radius

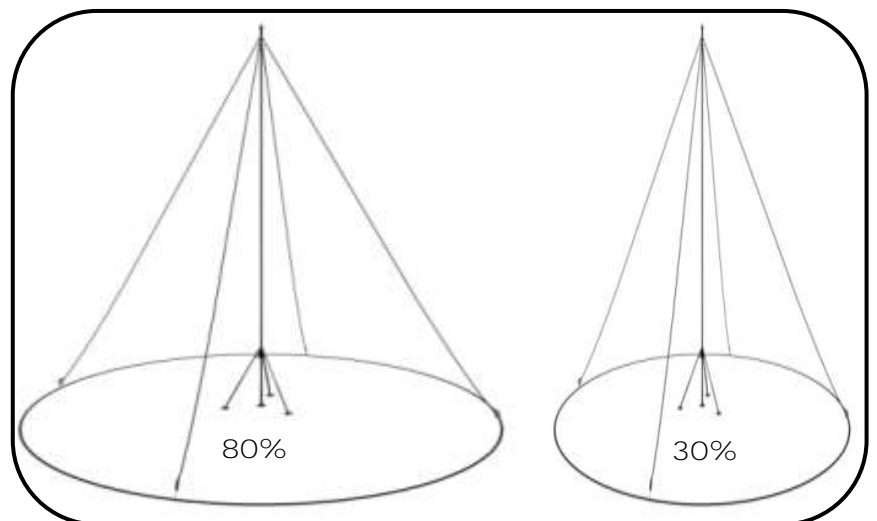
Ideal guying is set with an anchor radius of 80% of the mast height. Many applications of mast deployments are not able to afford an installation footprint of this size and installers may find it more convenient to place the guy anchors much closer to the mast as shown in the figure to the right. BlueSky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



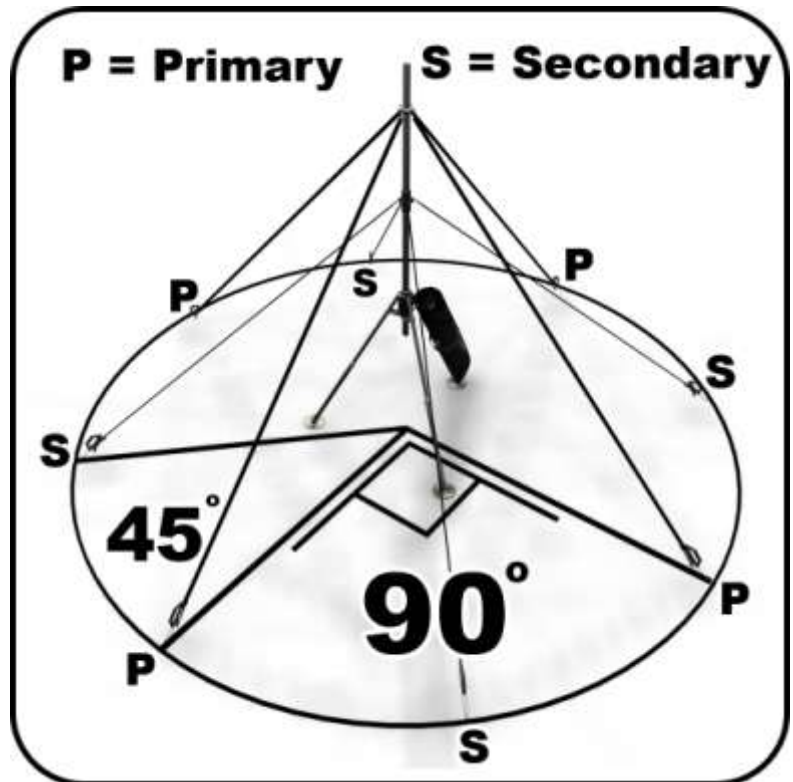
Payload Capacity - Wind Load - Anchor Radius

Primary and Secondary Guy Placement

BlueSky utilizes a 4 guy configuration 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.

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 45 degrees of the primary guy ropes.

The primary and secondary guys are always deployed at the same distance or anchor radius from the base of the mast.



Guying Distance from Base of Mast

Use the chart to the right as reference to determine the proper distance to place the guy stake for the guys 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.

Model Height	% Anchor Radius / Distance of the Guys from the Base of the Mast		
	80%	50%	30%
2 M	6 ft	3.75 ft	2.25 ft
3 M	8.4 ft	5.25 ft	3.15 ft
4 M	10.8 ft	6.75 ft	4.05 ft
5 M	13.2 ft	8.25 ft	4.95 ft
6 M	15.6 ft	9.75 ft	5.85 ft
7 M	17.2 ft	10.75 ft	6.45 ft
8 M	20.4 ft	12.75 ft	7.65 ft
9 M	22.8 ft	14.25 ft	8.55 ft
10 M	25.2 ft	15.75 ft	9.45 ft
11 M	27.6 ft	17.25 ft	10.35 ft
12 M	30 ft	18.75 ft	11.25 ft
13 M	32.4 ft	20.25 ft	12.15 ft
14 M	34.8 ft	21.75 ft	13.05 ft
15 M	37.2 ft	23.25 ft	13.95 ft

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
2 m AL1 Standard Series (7.5 ft)						
Primary Guying Only						
50 lbs Deployed						
		<u>Wind Speed (mph)</u>		<u>70</u>	<u>90</u>	<u>110</u>
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		
2 m AL1 Standard Series (7.5 ft)						
Primary & Secondary Guying						
50 lbs Deployed						
		<u>Wind Speed (mph)</u>		<u>70</u>	<u>90</u>	<u>110</u>
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		
3 m AL1 Standard Series (10.5 ft)						
Primary Guying Only						
47.5 lbs Deployed						
		<u>Wind Speed (mph)</u>		<u>70</u>	<u>90</u>	<u>110</u>
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		
3 m AL1 Standard Series (10.5 ft)						
Primary & Secondary Guying						
47.5 lbs Deployed						
		<u>Wind Speed (mph)</u>		<u>70</u>	<u>90</u>	<u>110</u>
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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
4 m AL1 Standard Series (13.5 ft)						
Primary Guying Only						
45 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		
4 m AL1 Standard Series (13.5 ft)						
Primary & Secondary Guying						
45 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		
5 m AL1 Standard Series (16.5 ft)						
Primary Guying Only						
42.5 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		
5 m AL1 Standard Series (16.5 ft)						
Primary & Secondary Guying						
42.5 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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
6 m AL1 Standard Series (19.5 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		
7 m AL1 Standard Series (19.5 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					

Fully Operational		Survivable		Mast Failure		
7 m AL1 Standard Series (22.5 ft) Primary Guying Only 37.5 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		
7 m AL1 Standard Series (22.5 ft) Primary & Secondary Guying 37.5 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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
8 m AL1 Standard Series (25.5 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		
8 m AL1 Standard Series (25.5 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		
9 m AL1 Standard Series (28.5 ft)						
Primary Guying Only						
32.5 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		
9 m AL1 Standard Series (28.5 ft)						
Primary & Secondary Guying						
32.5 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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
10 m AL1 Standard Series (31.5 ft) Primary Guying Only 30 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Yellow	Red	Red	Red	Red
	50% Guy Distance	Green	Red	Red	Red	Red
	80% Guy Distance	Green	Green	Yellow	Yellow	Yellow
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Yellow	Yellow	Yellow

Fully Operational		Survivable		Mast Failure		
10 m AL1 Standard Series (31.5 ft) Primary & Secondary Guying 30 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Green	Green	Green	Yellow	Yellow
	50% Guy Distance	Green	Green	Green	Green	Green
	80% Guy Distance	Green	Green	Green	Green	Green
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
	50% Guy Distance	Green	Green	Green	Green	Green
	80% Guy Distance	Green	Green	Green	Green	Green
2 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Green	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Green	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green

Fully Operational		Survivable		Mast Failure		
11 m AL1 Standard Series (34.5 ft) Primary Guying Only 25 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Yellow	Yellow	Yellow
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Yellow	Yellow	Yellow
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Yellow	Yellow	Yellow

Fully Operational		Survivable		Mast Failure		
11 m AL1 Standard Series (34.5 ft) Primary & Secondary Guying 25 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Green	Green	Green	Yellow	Yellow
	50% Guy Distance	Green	Green	Green	Green	Green
	80% Guy Distance	Green	Green	Green	Green	Green
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
	50% Guy Distance	Green	Green	Green	Green	Green
	80% Guy Distance	Green	Green	Green	Green	Green
2 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Green	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Green	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
12 m AL1 Standard Series (37.5 ft) Primary Guying Only 20 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Yellow	Red	Red	Red	Red
	80% Guy Distance	Yellow	Yellow	Red	Red	Red
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red

Fully Operational		Survivable		Mast Failure		
12 m AL1 Standard Series (37.5 ft) Primary & Secondary Guying 20 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
2 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Yellow	Yellow
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	Red	Red
	50% Guy Distance	Green	Yellow	Yellow	Red	Red
	80% Guy Distance	Green	Green	Green	Yellow	Yellow

Fully Operational		Survivable		Mast Failure		
13 m AL1 Standard Series (40.5 ft) Primary Guying Only 15 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Yellow	Red	Red	Red	Red
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Red	Red	Red	Red	Red
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	Red	Red
	50% Guy Distance	Red	Red	Red	Red	Red
	80% Guy Distance	Red	Red	Red	Red	Red

Fully Operational		Survivable		Mast Failure		
13 m AL1 Standard Series (40.5 ft) Primary & Secondary Guying 15 lbs Deployed						
		Wind Speed (mph)		70	90	110
Mast Only	30% Guy Distance	Green	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Green	Green
1 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Yellow	Yellow
2 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	50% Guy Distance	Green	Green	Yellow	Yellow	Yellow
	80% Guy Distance	Green	Green	Green	Yellow	Yellow
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	Red	Red
	50% Guy Distance	Yellow	Yellow	Yellow	Red	Red
	80% Guy Distance	Green	Yellow	Yellow	Yellow	Yellow

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL1 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
14 m AL1 Standard Series (43.5 ft) Primary Guying Only 12.5 lbs Deployed						
Wind Speed (mph)		70	90	110		
Mast Only	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Yellow	Red	Red		
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Yellow	Red	Red		
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Red	Red	Red		
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Red	Red	Red		

Fully Operational		Survivable		Mast Failure		
14 m AL1 Standard Series (43.5 ft) Primary & Secondary Guying 12.5 lbs Deployed						
Wind Speed (mph)		70	90	110		
Mast Only	30% Guy Distance	Yellow	Red	Red		
	50% Guy Distance	Green	Yellow	Red		
	80% Guy Distance	Green	Green	Yellow		
1 Sq Ft Panel	30% Guy Distance	Yellow	Red	Red		
	50% Guy Distance	Green	Yellow	Red		
	80% Guy Distance	Green	Green	Yellow		
2 Sq Ft Panel	30% Guy Distance	Yellow	Red	Red		
	50% Guy Distance	Yellow	Yellow	Red		
	80% Guy Distance	Green	Yellow	Yellow		
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Yellow	Red	Red		
	80% Guy Distance	Green	Yellow	Yellow		

Fully Operational		Survivable		Mast Failure		
15 m AL1 Standard Series (46.5 ft) Primary Guying Only 10 lbs Deployed						
Wind Speed (mph)		70	90	110		
Mast Only	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Yellow	Red	Red		
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Red	Red	Red		
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Red	Red	Red		
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Red	Red	Red		
	80% Guy Distance	Red	Red	Red		

Fully Operational		Survivable		Mast Failure		
15 m AL1 Standard Series (46.5 ft) Primary & Secondary Guying 10 lbs Deployed						
Wind Speed (mph)		70	90	110		
Mast Only	30% Guy Distance	Yellow	Red	Red		
	50% Guy Distance	Green	Yellow	Red		
	80% Guy Distance	Green	Green	Yellow		
1 Sq Ft Panel	30% Guy Distance	Yellow	Red	Red		
	50% Guy Distance	Yellow	Yellow	Red		
	80% Guy Distance	Green	Yellow	Yellow		
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Yellow	Yellow	Red		
	80% Guy Distance	Green	Yellow	Yellow		
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red		
	50% Guy Distance	Yellow	Red	Red		
	80% Guy Distance	Green	Yellow	Yellow		

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational	Survivable	Mast Failure		
2 m AL2 Standard Series (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		
2 m AL2 Standard Series (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		
3 m AL2 Standard Series (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		
3 m AL2 Standard Series (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			

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
4 m AL2 Standard Series (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		
4 m AL2 Standard Series (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		
5 m AL2 Standard Series (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		
5 m AL2 Standard Series (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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
6 m AL2 Standard Series (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		
6 m AL2 Standard Series (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		
7 m AL2 Standard Series (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		
7 m AL2 Standard Series (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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure		
8 m AL2 Standard Series (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		
8 m AL2 Standard Series (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		
9 m AL2 Standard Series (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		
8 m AL2 Standard Series (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					

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable			Mast Failure		
10 m AL2 Standard 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		
10 m AL2 Standard 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		
11 m AL2 Standard 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		
11 m AL2 Standard 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						

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure	
12 m AL2 Standard System (37.5 ft) Primary Guying Only 35 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Green	Yellow	Red	
	80% Guy Distance	Green	Green	Yellow	
1 Sq Ft Panel	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Yellow	Yellow	Red	
	80% Guy Distance	Green	Yellow	Yellow	
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Green	Yellow	Red	
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Yellow	Yellow	Red	

Fully Operational		Survivable		Mast Failure	
12 m AL2 Standard System (37.5 ft) Primary & Secondary Guying 35 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Green	Green	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
1 Sq Ft Panel	30% Guy Distance	Green	Green	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
2 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
3 Sq Ft Panel	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	

Fully Operational		Survivable		Mast Failure	
13 m AL2 Standard System (40.5 ft) Primary Guying Only 30 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Yellow	Yellow	Red	
	80% Guy Distance	Green	Yellow	Yellow	
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Green	Yellow	Red	
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Yellow	Yellow	Red	
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	

Fully Operational		Survivable		Mast Failure	
13 m AL2 Standard System (40.5 ft) Primary & Secondary Guying 30 lbs Deployed					
		Wind Speed (mph)			
		70	90	110	
Mast Only	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Green	
	80% Guy Distance	Green	Green	Green	
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Red	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
2 Sq Ft Panel	30% Guy Distance	Green	Yellow	Red	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	
	50% Guy Distance	Green	Yellow	Yellow	
	80% Guy Distance	Green	Green	Yellow	

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

AL2 Standard Series Mast - Load Tables

Fully Operational		Survivable		Mast Failure	
14 m AL2 Standard System (43.5 ft)					
Primary Guying Only					
25 lbs Deployed					
Wind Speed (mph)		70	90	110	
Mast Only	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Green	Yellow	Red	
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Yellow	Yellow	Red	
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	

Fully Operational		Survivable		Mast Failure	
14 m AL2 Standard System (43.5 ft)					
Primary & Secondary Guying					
25 lbs Deployed					
Wind Speed (mph)		70	90	110	
Mast Only	30% Guy Distance	Green	Yellow	Yellow	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
1 Sq Ft Panel	30% Guy Distance	Green	Yellow	Red	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
2 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	
	50% Guy Distance	Green	Yellow	Yellow	
	80% Guy Distance	Green	Green	Green	
3 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	
	50% Guy Distance	Green	Yellow	Yellow	
	80% Guy Distance	Green	Green	Yellow	

Fully Operational		Survivable		Mast Failure	
15 m AL2 Standard System (46.5 ft)					
Primary Guying Only					
20 lbs Deployed					
Wind Speed (mph)		70	90	110	
Mast Only	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Yellow	Red	Red	
	80% Guy Distance	Yellow	Yellow	Red	
1 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	
2 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	
3 Sq Ft Panel	30% Guy Distance	Red	Red	Red	
	50% Guy Distance	Red	Red	Red	
	80% Guy Distance	Yellow	Red	Red	

Fully Operational		Survivable		Mast Failure	
15 m AL2 Standard System (46.5 ft)					
Primary & Secondary Guying					
20 lbs Deployed					
Wind Speed (mph)		70	90	110	
Mast Only	30% Guy Distance	Green	Yellow	Red	
	50% Guy Distance	Green	Green	Yellow	
	80% Guy Distance	Green	Green	Green	
1 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	
	50% Guy Distance	Green	Yellow	Yellow	
	80% Guy Distance	Green	Green	Green	
2 Sq Ft Panel	30% Guy Distance	Yellow	Yellow	Red	
	50% Guy Distance	Green	Yellow	Yellow	
	80% Guy Distance	Green	Green	Green	
3 Sq Ft Panel	30% Guy Distance	Yellow	Red	Red	
	50% Guy Distance	Green	Yellow	Red	
	80% Guy Distance	Green	Green	Yellow	

All calculations are based on the assumption that the tripod has been secured to the ground and is immovable and that the guy stakes holding the guy ropes have been secured to the ground and are immovable. Different types of soil conditions can negatively impact wind and load calculations and should be considered before deploying the mast.

Standard Series - Basic Component Overview

BlueSky Mast Standard Series (2 to 6 Meters)



Primary Guy Kit included (7 to 15 Meters)



Secondary Guy Kit and Additional Equipment included (11 to 15 Meters)



*Number of additional poles based on system requirements.

Secondary Guy Kit

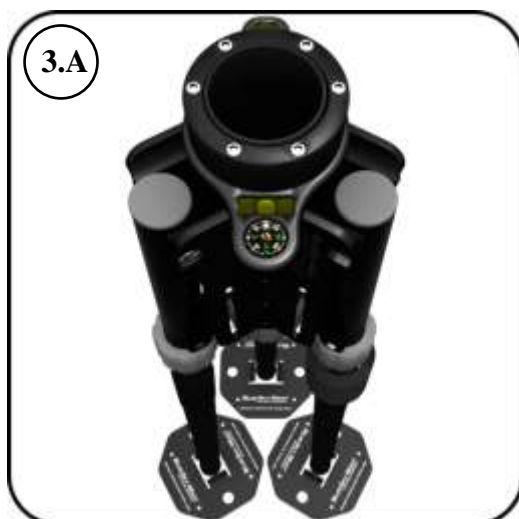
Standard Series Manual - No Guying (2 - 6 Meter Only)

Deploying the Standard Series Mast with No Guying

(For Models 2 to 6 Meter Only)

Standard Series Manual - No Guying (2 - 6 Meter Only)

1. Inspect the Site before Deployment
 - A. Ensure that the following conditions are met prior to deployment:
 - I. There are no overhead wires or power lines.
 - II. There are no buried power lines or unexploded ordinance.
 - III. The ground is capable of holding tripod stakes if stakes are required.
2. Unpack the Wheeling Carry Bag
 - A. Remove the pole bag and stake bag and set them next to the wheeling carry bag.
3. Set up and Orient the Tripod
 - A. Remove the tripod from the wheeling bag and stand it up with the base plates on the ground.
 - B. Orient the tripod.
 - I. Always orient the tripod with the serial number and compass of the tripod directly to your front and center. This will standardize deployment and assure the view of the mast corresponds to the step-by-step instructions in this manual.
 - II. **For "Directionally Based Applications", face the direction that you want the device you are deploying to face.** Use the compass on the tripod for general orientation if you are unsure.
 - III. For non-directional based applications, the tripod should be deployed with your back to the sun for maximum visibility and to avoid looking into the sun as the mast rises.
 - C. Release the Velcro strap on the tripod that holds the legs.
 - D. Unfold the tripod legs
 - E. Verify the cross bar on each of the 3 tripod legs is fully deployed by pushing down on it with at least two fingers until the sliding pin is resting completely at the bottom of the slot.



Standard Series Manual - No Guying (2 - 6 Meter Only)

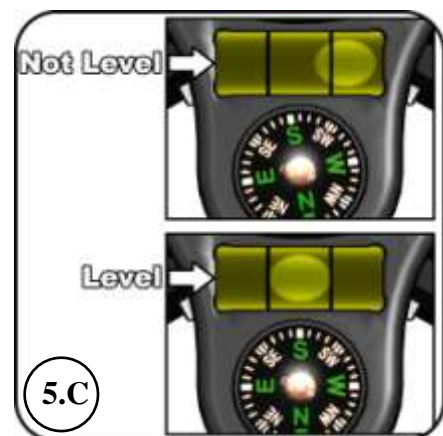
4. Raise the Tripod

- A. Loosen the turn knob on each of the 3 telescoping legs and lift the tripod up so that all 3 legs fully extend. Make sure the legs are fully extended by lifting the tripod completely off the ground.
- B. If a leg does not extend easily, check that the turn knob has been properly loosened and then pull on the leg until it extends fully. *(This may happen the 1st time a new mast is deployed and will abate with several uses.)*
- C. Place the tripod back on the ground making sure all 3 base plates are flat and level.
- D. Tighten the turn knobs on each of the 3 telescoping legs



5. Level the Tripod

- A. Level the tripod by using the two bubble levels on the top of the tripod. The perpendicular positioning of 2 bubble levels assures easy, accurate leveling.
- B. When the air bubbles in both levels are centered between the level marks at the middle of each bubble level, the tripod is level.
- C. If both bubbles are not centered, adjust the telescoping legs using the turn knobs until the air bubbles in both levels are centered.
- D. Fully tighten the turn knob on each leg.



Warning: Improper leveling can result in excessive leaning when fully deployed, which can damage the system and cause serious bodily harm

Standard Series Manual - No Guying (2 - 6 Meter Only)

6. Secure the Tripod

- A. Using the blue tripod stakes located in the black stake bag, drive a stake through each of the two holes on all three of the tripod base plates.
- B. Make sure the black stainless steel head on the tripod stakes contact the top of the tripod base plates. Once the head has firmly contacted the tripod base plate, stop hammering, continued hammering may damage the tripod base plate.
- C. If the ground is too hard to hammer the stakes deep enough for the head to contact the base plate, then drive the stakes into the ground at an angle towards the center of the tripod to maximize the surface area contact of the stake so that the tripod base plate is secure and cannot lift up.
- D. When tripod stakes cannot be used such as on a roof top, on a paved or hard surface, or inside a building, then the tripod base plates should be secured by sandbags or other **weights, preferably utilizing BlueSky's optional Telescoping Tripod Struts (Part # BSM2-K-T712-BSP-STR)**.
- E. If securing the tripod using weights, then the higher the mast is raised the more weight will be needed at the base to counteract the payload at the top and keep the mast from tipping over.
- F. Recheck bubble levels to make sure tripod is level.



7. Attach the Pole Bag to the Tripod Leg

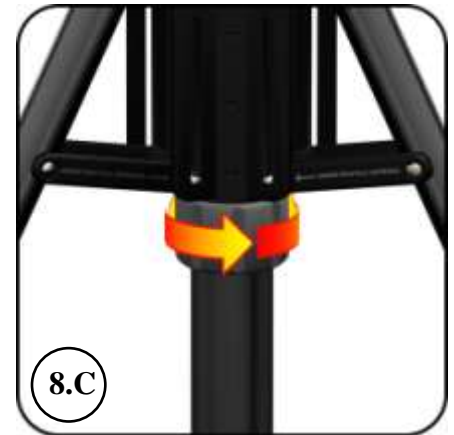
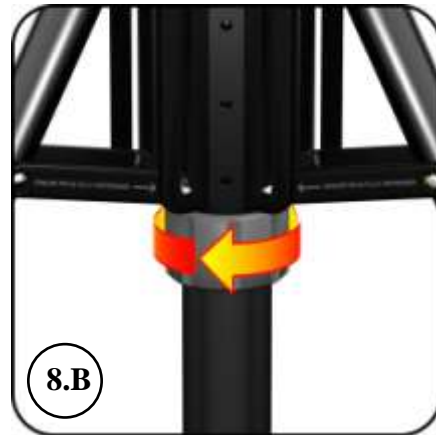
- A. Attach the pole bag to the tripod leg on your right using the Velcro strap on the tripod leg.
- B. Fully open the top of the bag and fold it back to easily access the mast poles inside.



Standard Series Manual - No Guying (2 - 6 Meter Only)

8. Insert the First Mast Pole

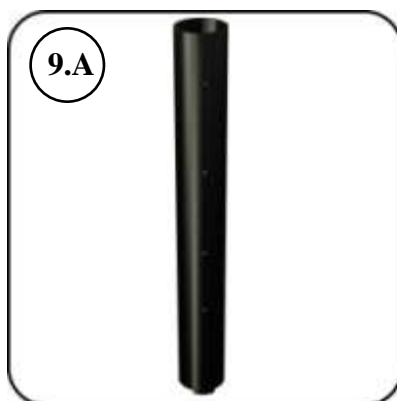
- Grab a mast pole out of the pole bag and insert up through the compression collar on the bottom of the tripod until the silver insert of the mast pole is visible at least 5 inches above the top of the tripod.
- If the mast pole does not insert easily into the tripod, loosen the compression collar on the tripod by turning it counterclockwise and try again.
- Secure the mast pole by tightening the compression collar on the tripod by turning it clockwise.



Warning: Keep your feet clear below the tripod until the entire mast has been deployed and the base pole has been inserted. Slippage of the mast poles may occur if the compression collar is not secured properly, causing damage to objects located within the tripod area below the compression collar.

9. Add the Mounting Pole

- The mounting pole is used for attaching devices to the top of the mast is located in the front side zippered pocket of the wheeling carry bag. It is 1/2 the length of a mast pole.
- Locate the mounting pole and slide it over the silver insert of the first mast pole in the tripod.
- Make sure the castle cut on both poles nest fully together and there is no silver visible in the seams of the joint.



Standard Series Manual - No Guying (2 - 6 Meter Only)

10. Attach Your Device or Devices to the Mast

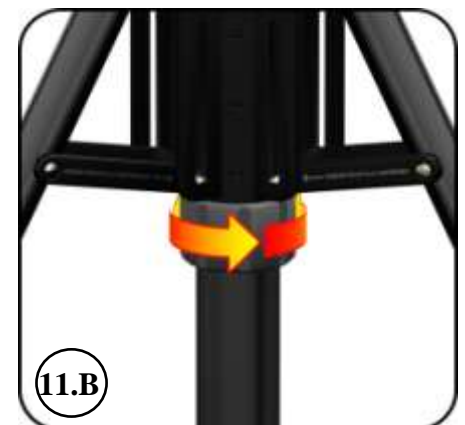
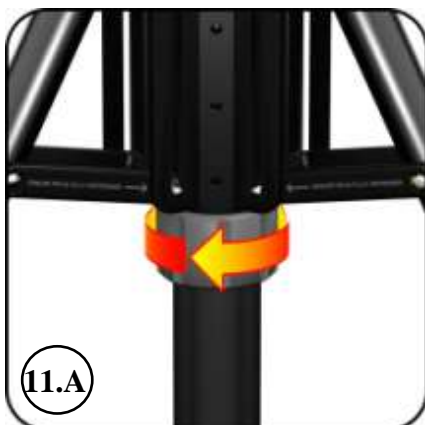
- A. Attach your devices to mounting pole.
- B. If using any BlueSky accessories then please refer to the accessory guide located in the manual for more information.
- C. Secure any loose cables to the mounting pole.



WARNING: Use Velcro straps or some other form of cable management to secure instrument cables to the mast to reduce strain on cables and prevent damage to cable connections. Loose cables can also cause the mast to lean to one side and affect performance and safety

11. Raise the First Mast Pole

- A. Holding the first mast pole in the tripod, loosen the compression collar by turning it to the left and raise it till only 4 inches is visible below the tripod.
- B. Secure the mast pole by tightening the compression collar on the tripod by turning it to the right.

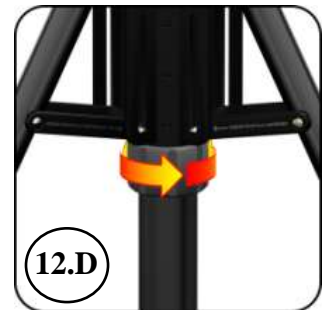
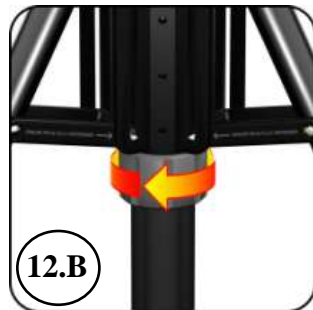


Helpful Hint: If you cannot tighten the compression collar enough to prevent the mast pole from sliding down, then you can rotate both the mast pole and the compression collar in the same direction at the same time. This will help create a more secure locked position. You can also apply this same technique to help loosen any mast pole if you cannot turn the compression collar by itself.

Standard Series Manual - No Guying (2 - 6 Meter Only)

12. Raise the Rest of the Mast Poles

- Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the compression collar. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- Holding the bottom mast pole firmly with one hand, slowly loosen the compression collar and allow the weight to settle onto the hand holding the just-added mast pole.
- Using both hands, slide the mast pole up through the tripod until only until there is only about 4 inches of the bottom of the mast pole visible below the compression collar on the tripod.
- Tighten the compression collar on the tripod and release the mast pole slowly to make sure that it does not slide down in the tripod. If it does begin to slide down, then the compression collar is not tight enough.
- Repeat this process for the remaining mast poles or until desired height is reached.



13. Insert the Base Pole

- Get the base pole out of the pole bag and insert the silver end into the bottom the mast pole already locked in the compression collar. Holding the base pole firmly with one hand, slowly loosen the compression collar and allow the weight to settle onto the hand holding the base pole.
- Permit the base pole to slowly slide down until the base plate on the bottom of the base pole firmly contacts the ground.

Helpful Hint: Lift Handles are available as an optional accessory and can be used to more easily raise the mast poles.

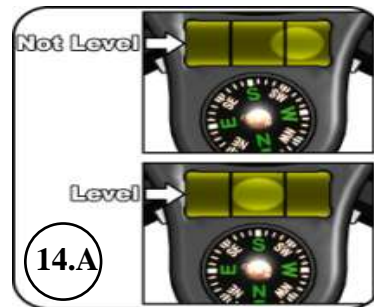


Lift Handles
 BSM2-P-Y702-GRP-000
 (Optional Accessory)

Standard Series Manual - No Guying (2 - 6 Meter Only)

14. Level the Mast and Adjust the Base Pole

- Make sure that the tripod is level and that the base plate on the base pole is centered below the mast.
- Secure the base pole in the tripod by gripping the knurled section of the top of the tripod with one hand and while applying slightly downward force, use the other hand to tighten the compression collar to lock the mast in place.
- Re-level the tripod by simply tapping or nudging the base pole with your foot in the correct direction until the bubble levels on the tripod read correctly.
- Do not loosen the turn knobs to adjust the level while the mast is fully deployed.



15. Stake the Base Pole

- Using the blue tripod stakes, drive a stake through two of the four holes on the base pole base plate.
- Make sure the black stainless steel head of the tripod stake contacts the base plate. Once the Head has firmly contacted the base plate, stop hammering. (Continued hammering may damage the base plate.)
- If the ground is too hard to hammer the stake deep enough for the head to contact the base plate, then drive the stake into the ground at an angle towards the center to maximize the surface area contact of the stake so that the base plate is secure.



16. Secure the Area—Finished

- Secure any remaining cable to the mast.
- Attach BlueSky Surface Wire Grounding Kit (Part # BST2-K-L104-GND-000) if so equipped. See addendum in Manual for instructions.
- Stow any equipment and tools in the Wheeling Carry Bag to prevent loss.

Standard Series Manual - No Guying (2 - 6 Meter Only)

Packing and Stowing the BlueSky Mast


1. Place Tripod in the Wheeling Carry Bag
 - A. Place tripod in the bag.
 - B. Rotate top leg so that base plate is vertical.
 - C. Slide tripod down to the bottom of the bag so that base plates touch the bottom.
2. Place the Manual and Mounting Pole in the Wheeling Carry Bag
 - A. Put the mounting pole and manual into the top inside Blue Zippered Pocket on the right.
3. Place Stake Bag in the Wheeling Carry Bag
 - A. Put the tripod stakes and hammer in the small black stake bag.
 - B. Place the stake bag between the legs of the tripod with the drawstring at the top.
4. Place Pole Bag in the Wheeling Carry Bag
 - A. Put the poles and base pole in the pole bag
 - B. Place the pole bag in the wheeling carry bag to the left of the tripod
5. Secure the Wheeling Carry Bag
 - A. Use the two straps on the inside of the bag too secure the tripod, pole bag and stake bag.
 - B. Put 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.

Deploying the Standard Series Mast with Primary Guying

(For Models 2 to 10 Meter Only)

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

1. Inspect the Site before Deployment

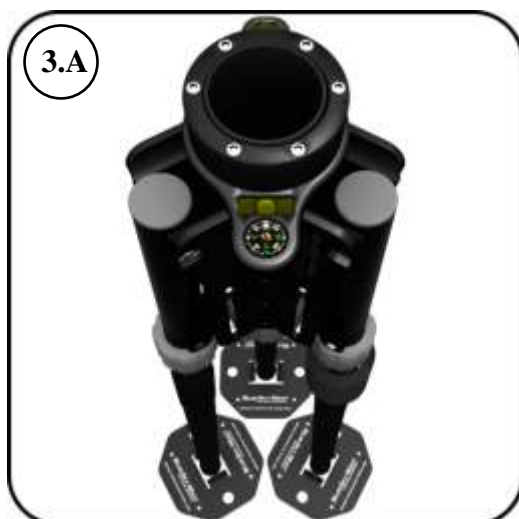
- A. Ensure that the following conditions are met prior to deployment:
 - I. There are no overhead wires or power lines.
 - II. There are no buried power lines or unexploded ordinance.
 - III. The ground is capable of holding tripod stakes if stakes are required.

2. Unpack the Wheeling Carry Bag

- A. Remove the pole bag and stake bag and set them next to the wheeling carry bag.

3. Set up and Orient the Tripod

- A. Remove the tripod from the wheeling bag and stand it up with the base plates on the ground.
- B. Orient the tripod.
 - I. Always orient the tripod with the serial number and compass of the tripod directly to your front and center. This will standardize deployment and assure the view of the mast corresponds to the step-by-step instructions in this manual.
 - II. **For "Directionally Based Applications", face the direction that you want the device you are deploying to face.** Use the compass on the tripod for general orientation if you are unsure.
 - III. For non-directional based applications, the tripod should be deployed with your back to the sun for maximum visibility and to avoid looking into the sun as the mast rises.
- C. Release the Velcro strap on the tripod that holds the legs.
- D. Unfold the tripod legs
- E. Verify the cross bar on each of the 3 tripod legs is fully deployed by pushing down on it with at least two fingers until the sliding pin is resting completely at the bottom of the slot.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

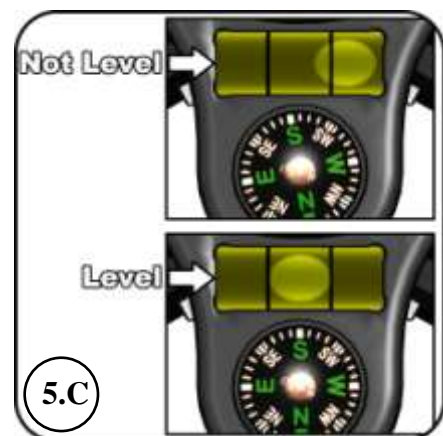
4. Raise the Tripod

- A. Loosen the turn knob on each of the 3 telescoping legs and lift the tripod up so that all 3 legs fully extend. Make sure the legs are fully extended by lifting the tripod completely off the ground.
- B. If a leg does not extend easily, check that the turn knob has been properly loosened and then pull on the leg until it extends fully. *(This may happen the 1st time a new mast is deployed and will abate with several uses.)*
- C. Place the tripod back on the ground making sure all 3 base plates are flat and level.
- D. Tighten the turn knobs on each of the 3 telescoping legs



5. Level the Tripod

- A. Level the tripod by using the two bubble levels on the top of the tripod. The perpendicular positioning of 2 bubble levels assures easy, accurate leveling.
- B. When the air bubbles in both levels are centered between the level marks at the middle of each bubble level, the tripod is level.
- C. If both bubbles are not centered, adjust the telescoping legs using the turn knobs until the air bubbles in both levels are centered.
- D. Fully tighten the turn knob on each leg.



Warning: Improper leveling can result in excessive leaning when fully deployed, which can damage the system and cause serious bodily harm

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

6. Secure the Tripod

- A. Using the blue tripod stakes located in the black stake bag, drive a stake through each of the two holes on all three of the tripod base plates.
- B. Make sure the black stainless steel head on the tripod stakes contact the top of the tripod base plates. Once the head has firmly contacted the tripod base plate, stop hammering, continued hammering may damage the tripod base plate.
- C. If the ground is too hard to hammer the stakes deep enough for the head to contact the base plate, then drive the stakes into the ground at an angle towards the center of the tripod to maximize the surface area contact of the stake so that the tripod base plate is secure and cannot lift up.
- D. When tripod stakes cannot be used such as on a roof top, on a paved or hard surface, or inside a building, then the tripod base plates should be secured by sandbags or other **weights, preferably utilizing BlueSky's optional Telescoping Tripod Struts (Part # BSM2-K-T712-BSP-STR)**.
- E. If securing the tripod using weights, then the higher the mast is raised the more weight will be needed at the base to counteract the payload at the top and keep the mast from tipping over.
- F. Recheck bubble levels to make sure tripod is level.



7. Attach the Pole Bag to the Tripod Leg

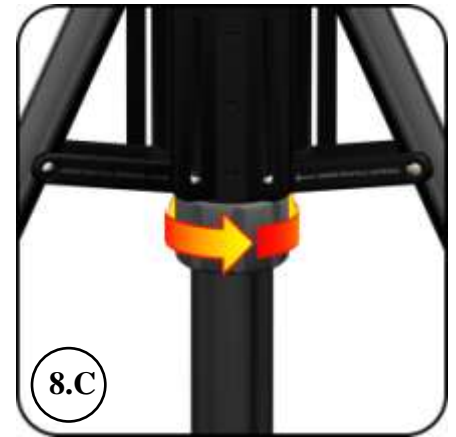
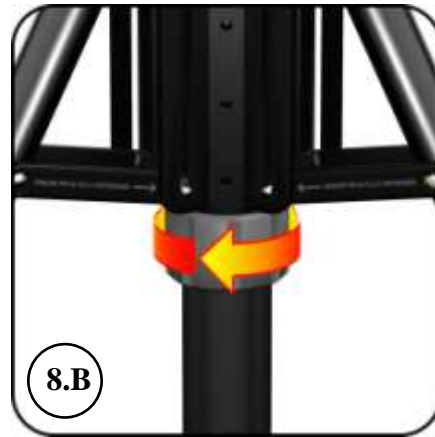
- A. Attach the pole bag to the tripod leg on your right using the Velcro strap on the tripod leg.
- B. Fully open the top of the bag and fold it back to easily access the mast poles inside.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

8. Insert the First Mast Pole

- Grab a mast pole out of the pole bag and insert up through the compression collar on the bottom of the tripod until the silver insert of the mast pole is visible at least 5 inches above the top of the tripod.
- If the mast pole does not insert easily into the tripod, loosen the compression collar on the tripod by turning it counterclockwise and try again.
- Secure the mast pole by tightening the compression collar on the tripod by turning it clockwise.



Warning: Keep your feet clear below the tripod until the entire mast has been deployed and the base pole has been inserted. Slippage of the mast poles may occur if the compression collar is not secured properly, causing damage to objects located within the tripod area below the compression collar.

9. Add the Mounting Pole

- The mounting pole is used for attaching devices to the top of the mast is located in the front side zippered pocket of the wheeling carry bag. It is 1/2 the length of a mast pole.
- Locate the mounting pole and slide it over the silver insert of the first mast pole in the tripod.
- Make sure the castle cut on both poles nest fully together and there is no silver visible in the seams of the joint.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

10. Add the Primary Guy Ring

- Locate the primary pin on guy ring and slide it over the top of the mounting pole.
- Pin it into the last hole at the base of the mounting pole.
- Pull on the stainless steel push pin to make sure it has engaged properly.



11. Attach Your Device or Devices to the Mast

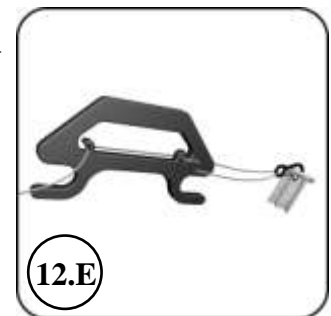
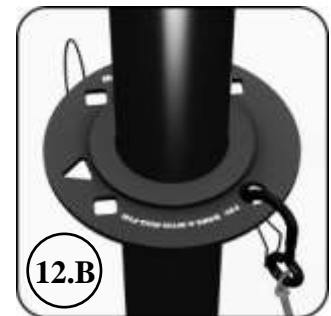
- Attach your devices to mounting pole.
- If using any BlueSky accessories then please refer to the accessory guide located in the manual for more information.
- Secure any loose cables to the mounting pole.



WARNING: Use Velcro straps or some other form of cable management to secure instrument cables to the mast to reduce strain on cables and prevent damage to cable connections. Loose cables can also cause the mast to lean to one side and affect performance and safety

12. Attach the Primary Guy Ropes

- For this step you will need the four primary guy ropes in the back side pocket of the wheeling carry bag and the four galvanized steel guy stakes in the black stake bag.
- Attach the stainless steel clip on the free end of the 1st primary guy rope to the round hole on the primary guy ring.
- Unwind the 1st primary guy rope while walking away from the mast until you get to the red indicator mark on the primary guy rope or the length that you determined by using the guying reference chart in the addendum of this manual.
- Drive a guy stake into the ground at the mark where the red indicator is on the guy rope or the length that you determined using the guy chart.
- Standing in place above the guy stake, unwind the rest of the guy rope off the handle and then attach the stainless steel clip onto the guy stake.

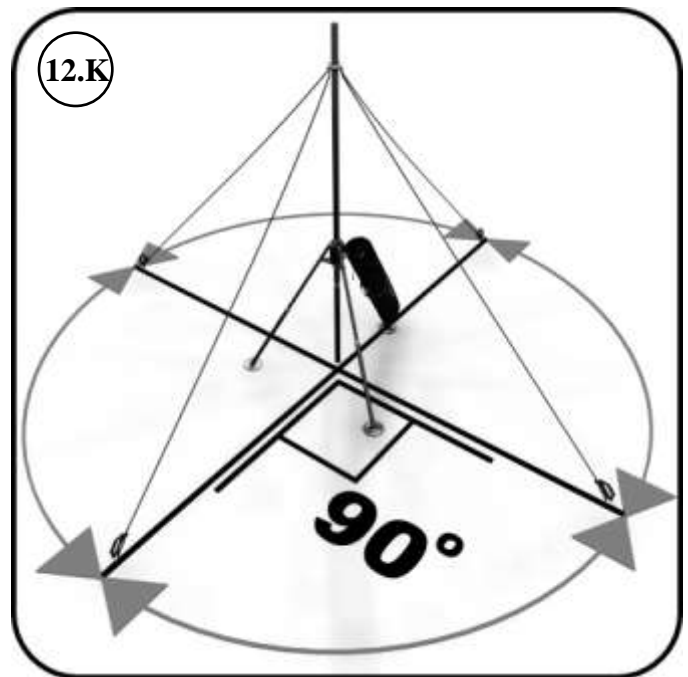
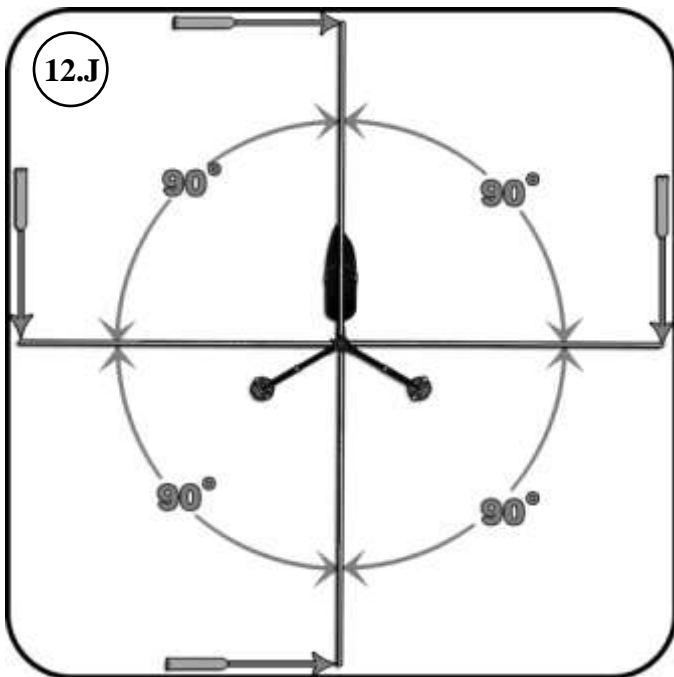


***Helpful Hint:** Walk the 1st guy rope in the opposite direction of the sun. This will help you align the 2nd guy rope (opposite of 1st guy rope) without interference of the sun.*

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

12. Attach the Primary Guy Ropes (continued)

- F. Attach the stainless steel clip on the free end of the 2nd primary guy rope to the square hole opposite the round hole on the primary guy ring.
- G. Unwind the 2nd primary guy rope (opposite of 1st primary guy rope) until you get to the red indicator mark on the primary guy rope or the length that you determined by using the guying reference chart.
- H. Visually confirm that the 2nd primary guy rope is in line with the 1st primary guy rope directly opposite the tripod.
- I. Drive a guy stake into the ground at the mark where the red indicator is on the guy rope or the length that you determined using the guy chart in the addendum.
- J. Repeat the steps above until all four primary guy ropes have been properly deployed 90 Degrees from each other.
- K. When all guys have been deployed, inspect the spacing and orientation and make any adjustments now.

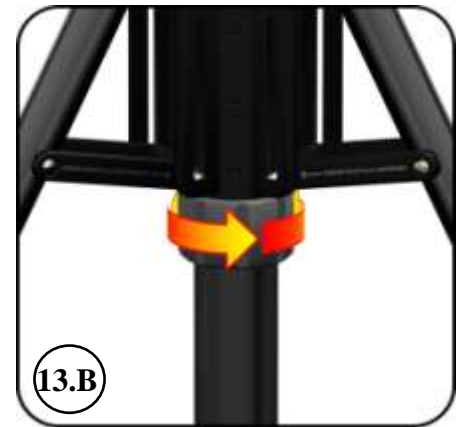
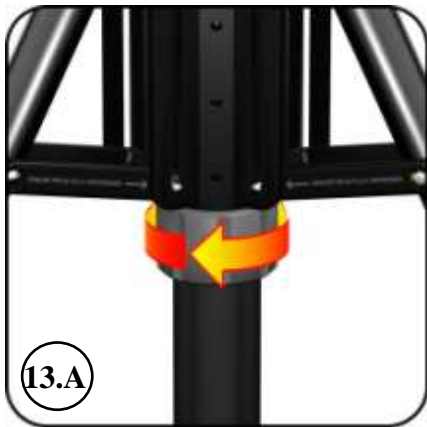


Helpful Hint: If you are deploying the mast to a shorter height than the purchased height or are in a tight spot where the guys can't be placed at the indicated mark, then see the guying addendum at the end of this manual for help in determining your spacing and load specs.

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

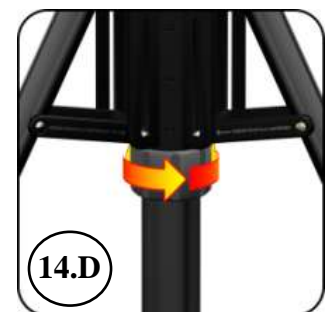
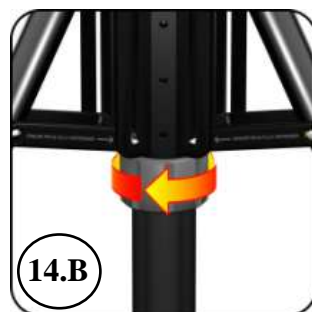
13. Raise the First Mast Pole

- Holding the first mast pole in the tripod, loosen the compression collar by turning it to the left and raise it till only 4 inches is visible below the tripod.
- Secure the mast pole by tightening the compression collar on the tripod by turning it to the right.



14. Raise the Rest of the Mast Poles

- Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the compression collar. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- Holding the bottom mast pole firmly with one hand, slowly loosen the compression collar and allow the weight to settle onto the hand holding the just-added mast pole.
- Using both hands, slide the mast pole up through the tripod until only until there is only about 4 inches of the bottom of the mast pole visible below the compression collar on the tripod.
- Tighten the compression collar on the tripod and release the mast pole slowly to make sure that it does not slide down in the tripod. If it does begin to slide down, then the compression collar is not tight enough.
- Repeat this process for the remaining mast poles or until desired height is reached.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

Helpful Hint: If you cannot tighten the compression collar enough to prevent the mast pole from sliding down, then you can rotate both the mast pole and the compression collar in the same direction at the same time. This will help create a more secure locked position. You can also apply this same technique to help loosen any mast pole if you cannot turn the compression collar by itself.

WARNING: If you experience excessive leaning during the deployment due to heavier loads or high winds then be sure to use incremental guying as outlined in step 15.

15. Incremental Guying (if required)

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

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. 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

- A. Start with the guy rope that is opposite the direction that the mast may be leaning.
- B. Pull on the knotted end of the rope stay until you have removed enough slack from the line to allow only the insertion of a single mast pole.
- C. Tie a simple knot in the slack to prevent the line from pulling back through the hole on the rope stay.
- D. Adjust the guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- E. Adjust the remaining 3 guy ropes the same way to allow for only enough slack for a single mast pole to be inserted.
- F. It is unnecessary to adjust the secondary guy ropes during incremental guying.
- G. Continue raising the mast sections utilizing incremental guying until the full height has been achieved.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

16. Insert the Base Pole

- A. Get the base pole out of the pole bag and insert the silver end into the bottom the mast pole already locked in the compression collar. Holding the base pole firmly with one hand, slowly loosen the compression collar and allow the weight to settle onto the hand holding the base pole.
- B. Permit the base pole to slowly slide down until the base plate on the bottom of the base pole firmly contacts the ground.

Helpful Hint: Lift Handles are available as an optional accessory and can be used to more easily raise the mast poles.



Lift Handles
BSM2-P-Y702-GRP-000
(Optional Accessory)

17. Adjust the Primary Guy Ropes

Adjust the guy ropes so that the mast is straight and perpendicular. If the guy ropes are too loose it will allow the mast to lean. If the guy ropes are too tight then they put unnecessary strain and load on the mast causing it to bend or bow. The tension should be firm, not slack nor taut.

- A. Adjust the primary guy ropes so that the mast is straight and perpendicular starting with the guy rope that is opposite the direction that the mast may be leaning.
- B. Adjust the primary guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- C. Adjust the remaining 3 primary guy ropes the same way to allow till the mast is straight and perpendicular.
- E. It may be necessary to do this several times till the mast is straight and perpendicular.
- F. Rotate the mast to align any directional devices if necessary.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

18. Level the Mast and Adjust the Base Pole

- Make sure that the tripod is level and that the base plate on the base pole is centered below the mast.
- Secure the base pole in the tripod by gripping the knurled section of the top of the tripod with one hand and while applying slightly downward force, use the other hand to tighten the compression collar to lock the mast in place.
- Re-level the tripod by simply tapping or nudging the base pole with your foot in the correct direction until the bubble levels on the tripod read correctly.
- Do not loosen the turn knobs to adjust the level while the mast is fully deployed.



19. Stake the Base Pole

- Using the blue tripod stakes, drive a stake through two of the four holes on the base pole base plate.
- Make sure the black stainless steel head of the tripod stake contacts the base plate. Once the Head has firmly contacted the base plate, stop hammering. (Continued hammering may damage the base plate.)
- If the ground is too hard to hammer the stake deep enough for the head to contact the base plate, then drive the stake into the ground at an angle towards the center to maximize the surface area contact of the stake so that the base plate is secure.



20. Secure the Area—Finished

- Secure any remaining cable to the mast.
- Attach BlueSky Surface Wire Grounding Kit (Part # BST2-K-L104-GND-000) if so equipped. See addendum in Manual for instructions.
- Stow any equipment and tools in the Wheeling Carry Bag to prevent loss.

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

Packing and Stowing the BlueSky Mast


1. Place Tripod in the Wheeling Carry Bag
 - A. Place tripod in the bag.
 - B. Rotate top leg so that base plate is vertical.
 - C. Slide tripod down to the bottom of the bag so that base plates touch the bottom.

2. Place the Small Items in the Wheeling Carry Bag
 - A. Put the mounting pole, primary guy ring and manual into the top inside Blue Zippered Pocket on the right.
 - B. Place the primary guy ropes in the back inside Green Zippered Pocket on the right.

3. Place Stake Bag in the Wheeling Carry Bag
 - A. Put the Stakes and Hammer in the small black stake bag.
 - B. Place the stake bag between the legs of the tripod with the drawstring at the top.

4. Place Pole Bag in the Wheeling Carry Bag
 - A. Put the poles and base pole in the pole bag.
 - B. Place the pole bag in the wheeling carry bag to the left of the tripod.

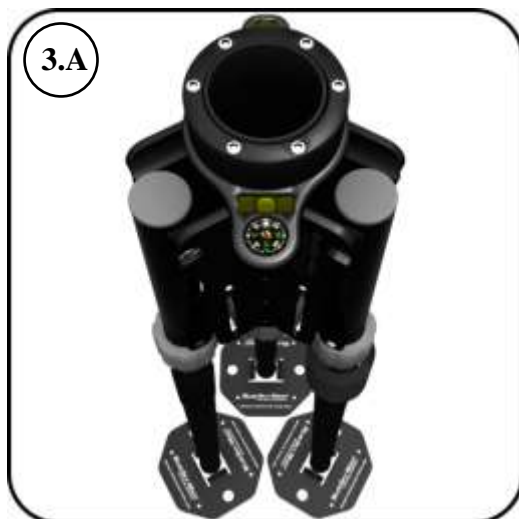
5. Secure the Wheeling Carry Bag
 - A. Use the two straps on the inside of the bag too secure the tripod, pole bag and stake bag.
 - B. Put any other ancillary devices in the bag at this time.
 - C. Do not overload the bag or damage may occur.
 - D. Zip up the main outside zipper and secure the 3 straps on the outside of the bag.

Deploying the Standard Series Mast with Primary and Secondary Guying

(For Models 2 to 15 Meter)

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

1. Inspect the Site before Deployment
 - A. Ensure that the following conditions are met prior to deployment:
 - I. There are no overhead wires or power lines.
 - II. There are no buried power lines or unexploded ordinance.
 - III. The ground is capable of holding tripod stakes if stakes are required.
2. Unpack the Wheeling Carry Bag
 - A. Remove the pole bag and stake bag and set them next to the wheeling carry bag.
3. Set up and Orient the Tripod
 - A. Remove the tripod from the wheeling bag and stand it up with the base plates on the ground.
 - B. Orient the tripod.
 - I. Always orient the tripod with the serial number and compass of the tripod directly to your front and center. This will standardize deployment and assure the view of the mast corresponds to the step-by-step instructions in this manual.
 - II. **For "Directionally Based Applications", face the direction that you want the device you are deploying to face.** Use the compass on the tripod for general orientation if you are unsure.
 - III. For non-directional based applications, the tripod should be deployed with your back to the sun for maximum visibility and to avoid looking into the sun as the mast rises.
 - C. Release the Velcro strap on the tripod that holds the legs.
 - D. Unfold the tripod legs
 - E. Verify the cross bar on each of the 3 tripod legs is fully deployed by pushing down on it with at least two fingers until the sliding pin is resting completely at the bottom of the slot.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

4. Raise the Tripod

- Loosen the turn knob on each of the 3 telescoping legs and lift the tripod up so that all 3 legs fully extend. Make sure the legs are fully extended by lifting the tripod completely off the ground.
- If a leg does not extend easily, check that the turn knob has been properly loosened and then pull on the leg until it extends fully. *(This may happen the 1st time a new mast is deployed and will abate with several uses.)*
- Place the tripod back on the ground making sure all 3 base plates are flat and level.
- Tighten the turn knobs on each of the 3 telescoping legs



5. Level the Tripod

- Level the tripod by using the two bubble levels on the top of the tripod. The perpendicular positioning of 2 bubble levels assures easy, accurate leveling.
- When the air bubbles in both levels are centered between the level marks at the middle of each bubble level, the tripod is level.
- If both bubbles are not centered, adjust the telescoping legs using the turn knobs until the air bubbles in both levels are centered.
- Fully tighten the turn knob on each leg.



Warning: Improper leveling can result in excessive leaning when fully deployed, which can damage the system and cause serious bodily harm

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

6. Secure the Tripod

- A. Using the blue tripod stakes located in the black stake bag, drive a stake through each of the two holes on all three of the tripod base plates.
- B. Make sure the black stainless steel head on the tripod stakes contact the top of the tripod base plates. Once the head has firmly contacted the tripod base plate, stop hammering, continued hammering may damage the tripod base plate.
- C. If the ground is too hard to hammer the stakes deep enough for the head to contact the base plate, then drive the stakes into the ground at an angle towards the center of the tripod to maximize the surface area contact of the stake so that the tripod base plate is secure and cannot lift up.
- D. When tripod stakes cannot be used such as on a roof top, on a paved or hard surface, or inside a building, then the tripod base plates should be secured by sandbags or other **weights, preferably utilizing BlueSky's optional Telescoping Tripod Struts (Part # BSM2-K-T712-BSP-STR)**.
- E. If securing the tripod using weights, then the higher the mast is raised the more weight will be needed at the base to counteract the payload at the top and keep the mast from tipping over.
- F. Recheck bubble levels to make sure tripod is level.



7. Attach the Pole Bag to the Tripod Leg

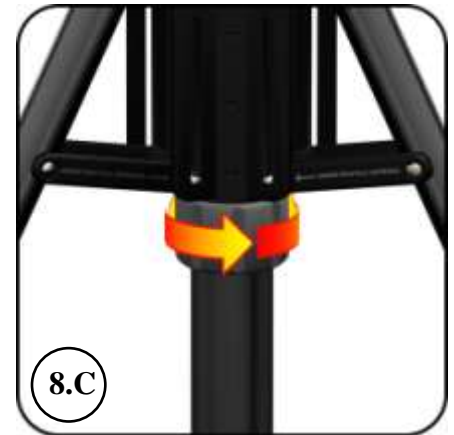
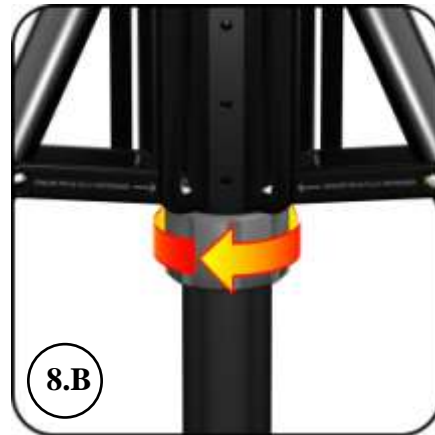
- A. Attach the pole bag to the tripod leg on your right using the Velcro strap on the tripod leg.
- B. Fully open the top of the bag and fold it back to easily access the mast poles inside.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

8. Insert the First Mast Pole

- Grab a mast pole out of the pole bag and insert up through the compression collar on the bottom of the tripod until the silver insert of the mast pole is visible at least 5 inches above the top of the tripod.
- If the mast pole does not insert easily into the tripod, loosen the compression collar on the tripod by turning it counterclockwise and try again.
- Secure the mast pole by tightening the compression collar on the tripod by turning it clockwise.



Warning: Keep your feet clear below the tripod until the entire mast has been deployed and the base pole has been inserted. Slippage of the mast poles may occur if the compression collar is not secured properly, causing damage to objects located within the tripod area below the compression collar.

9. Add the Mounting Pole

- The mounting pole is used for attaching devices to the top of the mast is located in the front side zippered pocket of the wheeling carry bag. It is 1/2 the length of a mast pole.
- Locate the mounting pole and slide it over the silver insert of the first mast pole in the tripod.
- Make sure the castle cut on both poles nest fully together and there is no silver visible in the seams of the joint.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

10. Add the Secondary Guy Ring

- Locate the secondary compression guy ring and slide it over the top of the mounting pole.
- Let the guy ring rest on the top of the tripod.
- Do not tighten, poles should be able to easily slide through the compression collars.



11. Add the Primary Guy Ring

- Locate the primary pin on guy ring and slide it over the top of the mounting pole.
- Pin it into the last hole at the base of the mounting pole.
- Pull on the stainless steel push pin to make sure it has engaged properly.



12. Attach Your Device or Devices to the Mast

- Attach your devices to mounting pole.
- If using any BlueSky accessories then please refer to the proper mounting instructions for your specific accessory located in the addendum of this manual.
- Secure any loose cables to the mounting pole.



WARNING: Use Velcro straps or some other form of cable management to secure instrument cables to the mast to reduce strain on cables and prevent damage to cable connections. Loose cables can also cause the mast to lean to one side and affect performance and safety

13. Attach the Primary Guy Ropes

- For this step you will need the four primary guy ropes in the back side pocket of the wheeling carry bag and the four galvanized steel guy stakes in the black stake bag.
- Attach the stainless steel clip on the free end of the 1st primary guy rope to the round hole on the primary guy ring.

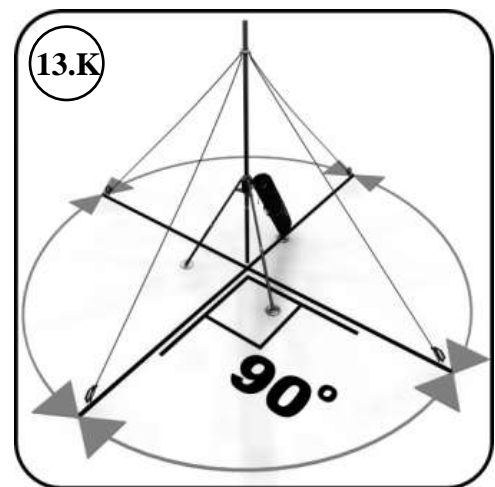
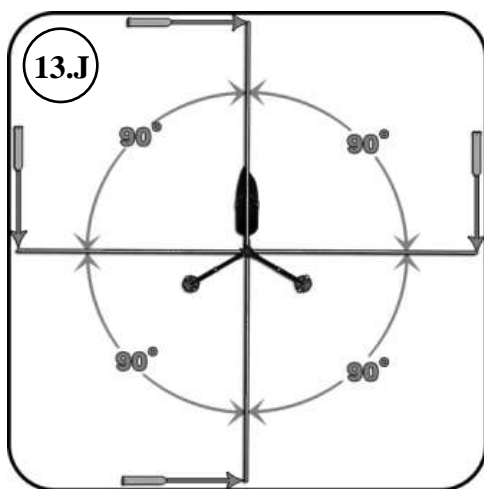


Helpful Hint: Walk the 1st guy rope in the opposite direction of the sun. This will help you align the 2nd guy rope (opposite of 1st guy rope) without interference of the sun.

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

13. Attach the Primary Guy Ropes (continued)

- C. Unwind the 1st primary guy rope while walking away from the mast until you get to the red indicator mark on the primary guy rope or the length that you determined by using the guying reference chart in the addendum of this manual.
- D. Drive a guy stake into the ground at the mark where the red indicator is on the guy rope or the length that you determined using the guy chart.
- E. Standing in place above the guy stake, unwind the rest of the guy rope off the handle and then attach the stainless steel clip onto the guy stake.
- F. Attach the stainless steel clip on the free end of the 2nd primary guy rope to the square hole opposite the round hole on the primary guy ring.
- G. Unwind the 2nd primary guy rope (opposite of 1st primary guy rope) until you get to the red indicator mark on the primary guy rope or the length that you determined by using the guying reference chart.
- H. Visually confirm that the 2nd primary guy rope is in line with the 1st primary guy rope directly opposite the tripod.
- I. Drive a guy stake into the ground at the mark where the red indicator is on the guy rope or the length that you determined using the guy chart in the addendum in this manual.
- J. Repeat the steps above until all four primary guy ropes have been properly deployed 90 Degrees from each other.
- K. When all guys have been deployed, inspect the spacing and orientation and make any adjustments now.

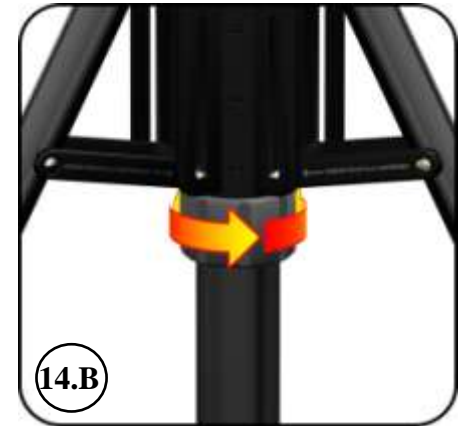
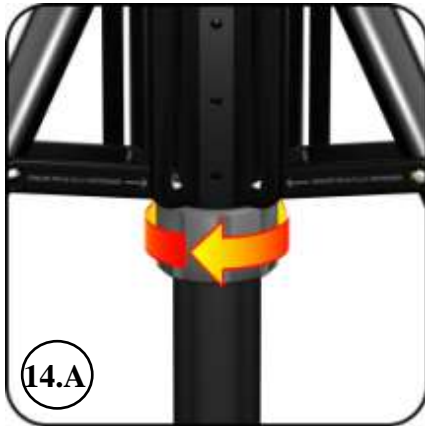


Helpful Hint: If you are deploying the mast to a shorter height than the purchased height or are in a tight spot where the guys can't be placed at the indicated mark, then see the guying addendum at the end of this manual for help in determining your spacing and load specs.

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

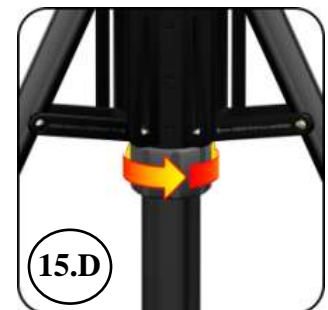
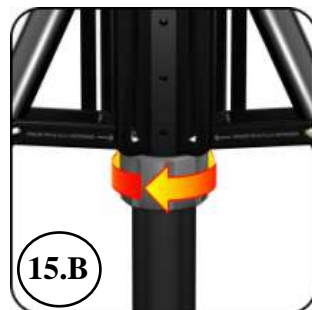
14. Raise the First Mast Pole

- Holding the first mast pole in the tripod, loosen the compression collar by turning it to the left and raise it till only 4 inches is visible below the tripod.
- Secure the mast pole by tightening the compression collar on the tripod by turning it to the right.



15. Raise the Mast Poles

- Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the compression collar. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- Holding the bottom mast pole firmly with one hand, slowly loosen the compression collar and allow the weight to settle onto the hand holding the just-added mast pole.
- Using both hands, slide the mast pole up through the tripod until only until there is only about 4 inches of the bottom of the mast pole visible below the compression collar on the tripod.
- Tighten the compression collar on the tripod and release the mast pole slowly to make sure that it does not slide down in the tripod. If it does begin to slide down, then the compression collar is not tight enough.
- Repeat this process until its time to deploy the secondary guys.
- BlueSky Universal Pole Mounts (Part # BSM2-P-A352-T00-000) can be added at anytime during this process. See addendum in this manual for mounting options.



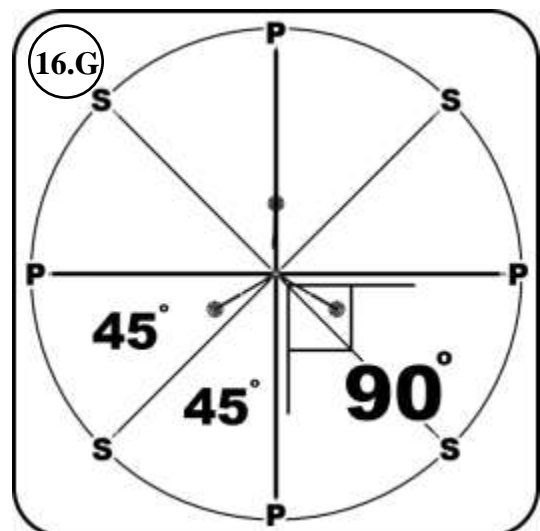
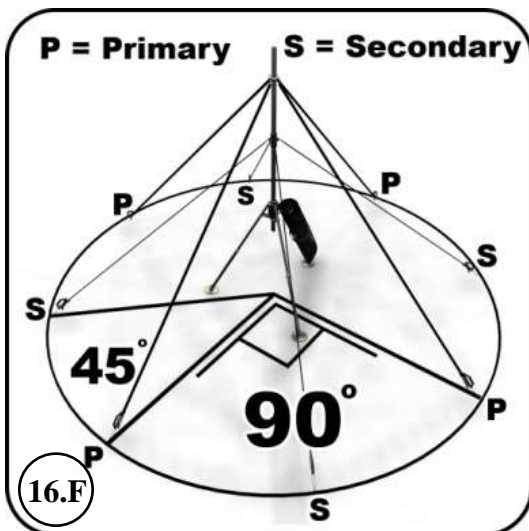
Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

16. Deploy the Secondary Guying

- A. Engage the secondary guy ring by tightening both the top and bottom compression collars on the guy ring. The opposing compression collars ensure that no slippage occurs due to wind.
- B. For the next steps you will need the four secondary guy ropes and the four galvanized steel guy stakes in the secondary guy kit bag.
- C. Attach the stainless steel clip on the free end of the 1st secondary guy rope to the round hole on the secondary guy ring.
- D. Unwind the 1st secondary guy rope while walking away from the mast and place it directly between two of the primary guy stakes at the same distance forming a 45 degree angle from the primary guy stakes on either side. See below chart for reference.



- E. Drive a guy stake into the ground at this position and unwind the remaining guy rope off the handle and attach the stainless steel clip onto the guy stake.
- F. Repeat the steps above until all four guy ropes have been properly deployed 90 Degrees from each other and 45 Degrees from the primary guy ropes.
- G. When all guys have been deployed, inspect the spacing and orientation and make any adjustments now.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

17. Raise the Rest of the Center Mast Poles

- A. Raise the rest of the center mast poles as outlined in Step 15 until the full height has been achieved.

Helpful Hint: Lift Handles are available as an optional accessory and can be used to more easily raise the mast poles.



Lift Handles
BSM2-P-Y702-GRP-000
(Optional Accessory)

WARNING: If you experience excessive leaning during the deployment due to heavier loads or high winds then be sure to use incremental guying as outlined in step 18.

18. Incremental Guying (if required)

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

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. 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

- Start with the guy rope that is opposite the direction that the mast may be leaning.
- Pull on the knotted end of the rope stay until you have removed enough slack from the line to allow only the insertion of a single mast pole.
- Tie a simple knot in the slack to prevent the line from pulling back through the hole on the rope stay.
- Adjust the guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- Adjust the remaining 3 guy ropes the same way to allow for only enough slack for a single mast pole to be inserted.
- It is unnecessary to adjust the secondary guy ropes during incremental guying.
- Continue raising the mast sections utilizing incremental guying until the full height has been achieved.



18.B



18.C



18.D

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

19. Insert the Base Pole

- A. Get the base pole out of the pole bag and insert the silver end into the bottom the mast pole already locked in the compression collar. Holding the base pole firmly with one hand, slowly loosen the compression collar and allow the weight to settle onto the hand holding the base pole.
- B. Permit the base pole to slowly slide down until the base plate on the bottom of the base pole firmly contacts the ground.

20. Adjust the Primary Guy Ropes

Adjust the guy ropes so that the mast is straight and perpendicular. If the guy ropes are too loose it will allow the mast to lean. If the guy ropes are too tight then they put unnecessary strain and load on the mast causing it to bend or bow. The tension should be firm, not slack nor taut.

- A. Adjust the primary guy ropes so that the mast is straight and perpendicular starting with the guy rope that is opposite the direction that the mast may be leaning.
- B. Adjust the primary guy rope by sliding the rope stay towards the mast to tighten and away from the mast to loosen.
- C. Adjust the remaining 3 primary guy ropes the same way to allow till the mast is straight and perpendicular.
- E. It may be necessary to do this several times till the mast is straight and perpendicular.
- F. Rotate the mast to align any directional devices if necessary.



Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

21. Level the Mast and Adjust the Base Pole

- Make sure that the tripod is level and that the base plate on the base pole is centered below the mast.
- Secure the base pole in the tripod by gripping the knurled section of the top of the tripod with one hand and while applying slightly downward force, use the other hand to tighten the compression collar to lock the mast in place.
- Re-level the tripod by simply tapping or nudging the base pole with your foot in the correct direction until the bubble levels on the tripod read correctly.
- Do not loosen the turn knobs to adjust the level while the mast is fully deployed.



22. Stake the Base Pole

- Using the blue tripod stakes, drive a stake through two of the four holes on the base pole base plate.
- Make sure the black stainless steel head of the tripod stake contacts the base plate. Once the Head has firmly contacted the base plate, stop hammering. (Continued hammering may damage the base plate.)
- If the ground is too hard to hammer the stake deep enough for the head to contact the base plate, then drive the stake into the ground at an angle towards the center to maximize the surface area contact of the stake so that the base plate is secure.

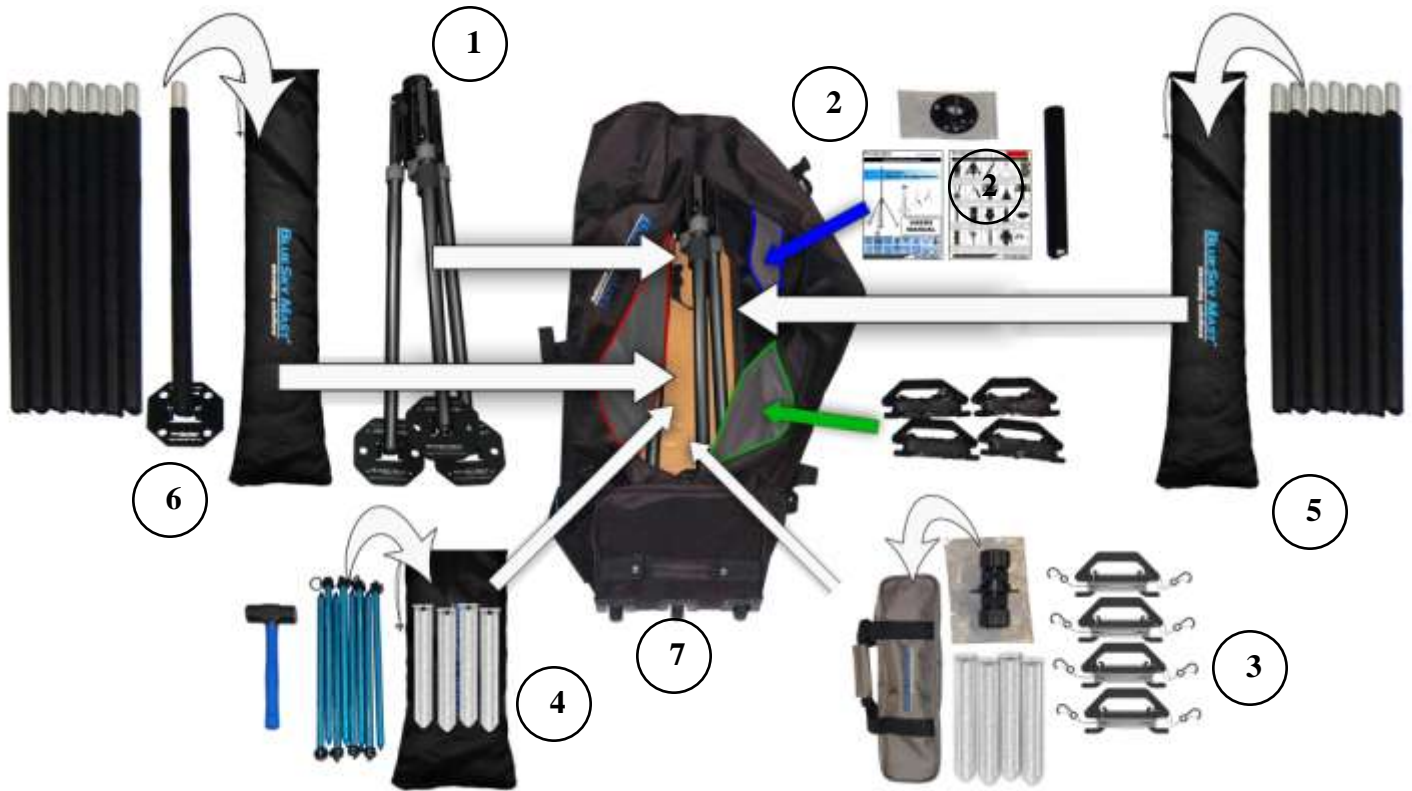


20. Secure the Area—Finished

- Secure any remaining cable to the mast.
- Attach BlueSky Surface Wire Grounding Kit (Part # BST2-K-L104-GND-000) if so equipped. See addendum in Manual for instructions.
- Stow any equipment and tools in the Wheeling Carry Bag to prevent loss.

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

Packing and Stowing the BlueSky Mast



1. Place Tripod in the Wheeling Carry Bag
 - A. Place tripod in the bag.
 - B. Rotate top leg so that base plate is vertical.
 - C. Slide tripod down to the bottom of the bag so that base plates touch the bottom.

2. Place the Small Items in the Wheeling Carry Bag
 - A. Put the mounting pole, primary guy ring and manual into the top inside Blue Zippered Pocket on the right.
 - B. Place the primary guy ropes in the back inside Green Zippered Pocket on the right.

3. Place Secondary Guy Kit in the Wheeling Carry Bag
 - A. Put 4 guy stakes, secondary guy ropes, compression guy ring, and hammer in the small grey bag.
 - B. Place the grey bag between the legs of the tripod with the drawstring at the top.

Standard Series Manual - Primary & Secondary Guying (2 - 15 Meter)

4. Place Primary Stake Bag in the Wheeling Carry Bag
 - A. Put the blue tripod stakes, 4 guy stakes and hammer in the small black stake bag.
 - B. Place the stake bag between the legs of the tripod with the drawstring at the top.

5. Place the 1st Pole Bag in the Wheeling Carry Bag
 - A. Put 1/2 the mast poles in the 1st pole bag
 - B. Place the pole bag in the wheeling carry bag to the right of the tripod

6. Place the 2nd Pole Bag in the Wheeling Carry Bag
 - A. Put the 1/2 the poles and the base pole in the 2nd pole bag
 - B. Place the pole bag in the wheeling carry bag to the left of the tripod

7. Secure the Wheeling Carry Bag
 - A. Use the two straps on the inside of the bag too secure the tripod, pole bag and stake bag.
 - B. Put 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.

Grounding Deployment Instructions

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

Contents of Surface Wire Grounding Kit



Grounding Bracket
BST2-P-B205-GND-000



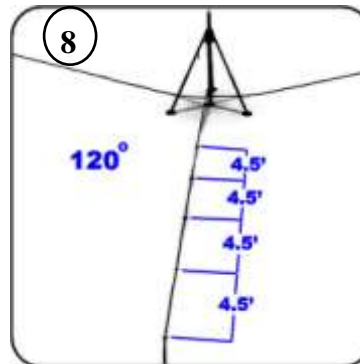
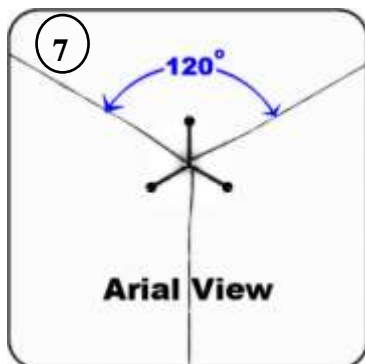
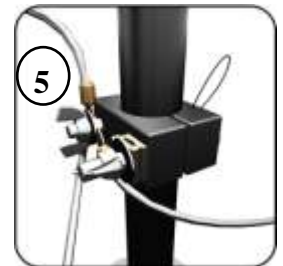
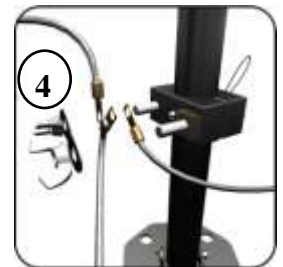
Stainless Steel Cable w/Stakes
BST2-P-C225-GND-000



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
5. Connect one end of each of the grounding cables to the grounding bracket post and 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 4.5 ft.
10. Hammer the stakes into the ground making sure that the head of each stake contacts the ground.

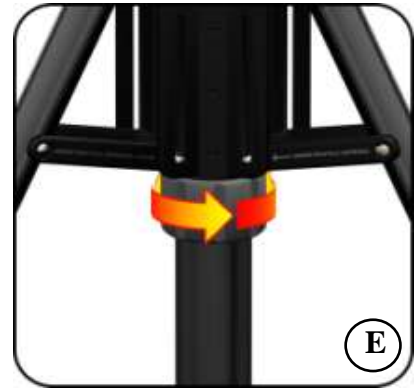
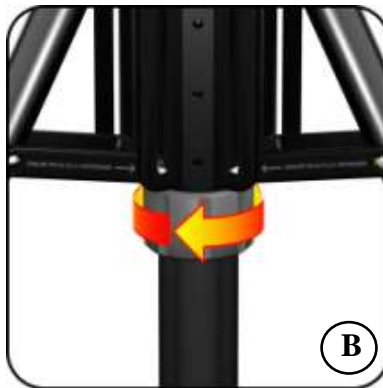


Lift Handle Instructions

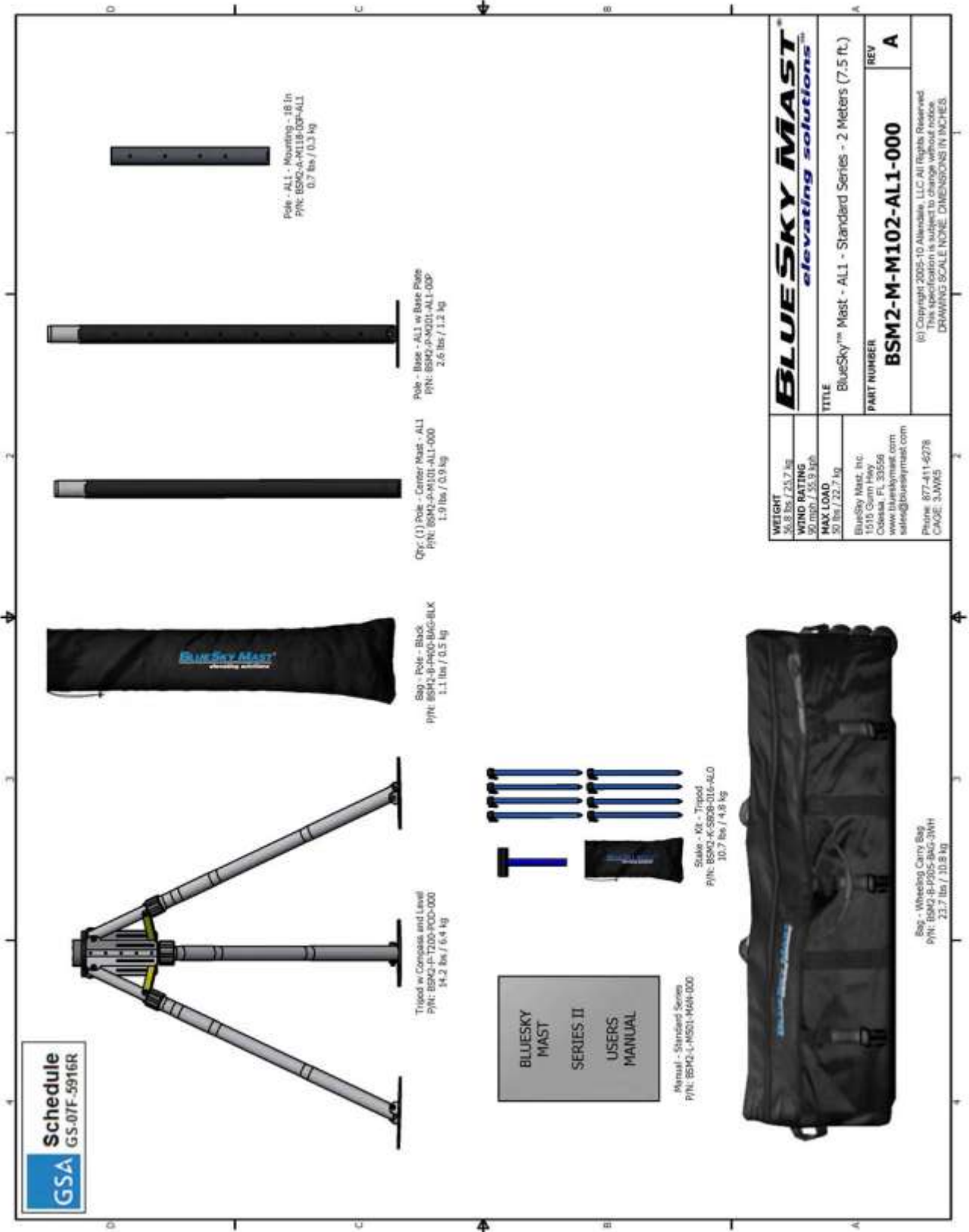


LIFT HANDLE DEPLOYMENT INSTRUCTIONS

- A. Get another mast pole out of the pole bag insert the silver end into the bottom the mast pole already locked in the compression collar. Make sure that the castle cut on both poles nest firmly together and no silver is visible in the seams of the joint.
- B. Holding the bottom mast pole firmly with one hand, slowly loosen the compression collar and allow the pole to slide down and rest firmly on the ground.
- C. Locate the male lift handle and place it at the bottom of mast pole on the ground 5 inches from the bottom. Do not use the bottom 5 inches of the mast pole.
- D. Interlock the female lift handle with the male lift handle and lift the mast pole up.
- E. Tighten the compression collar on the tripod and release the mast pole slowly to make sure that it does not slide down in the tripod. If it does begin to slide down, then the compression collar is not tight enough.
- F. Repeat this process for the remaining mast poles or until desired height is reached.



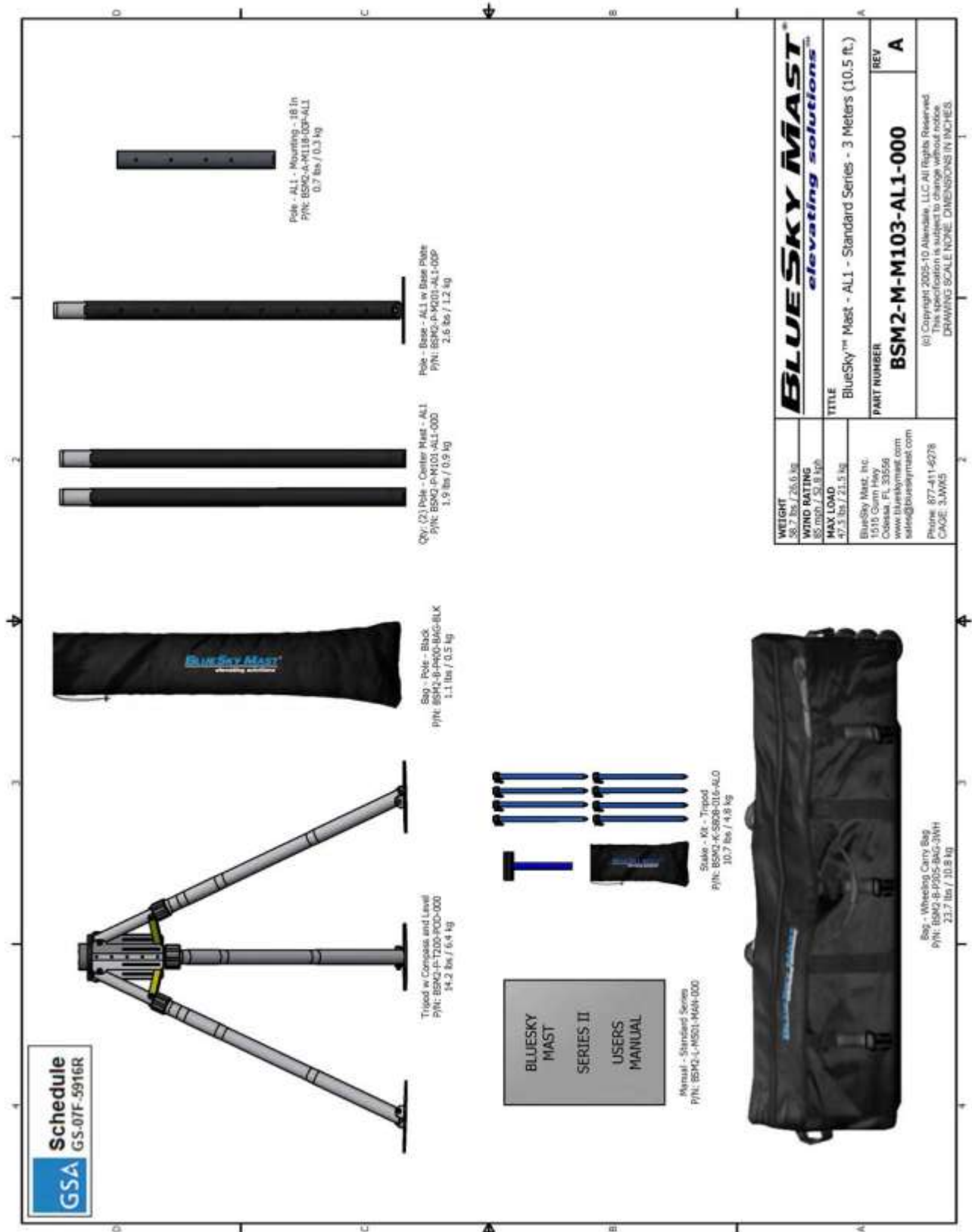
AL1 Datasheets for Mast 2 through 15 Meters



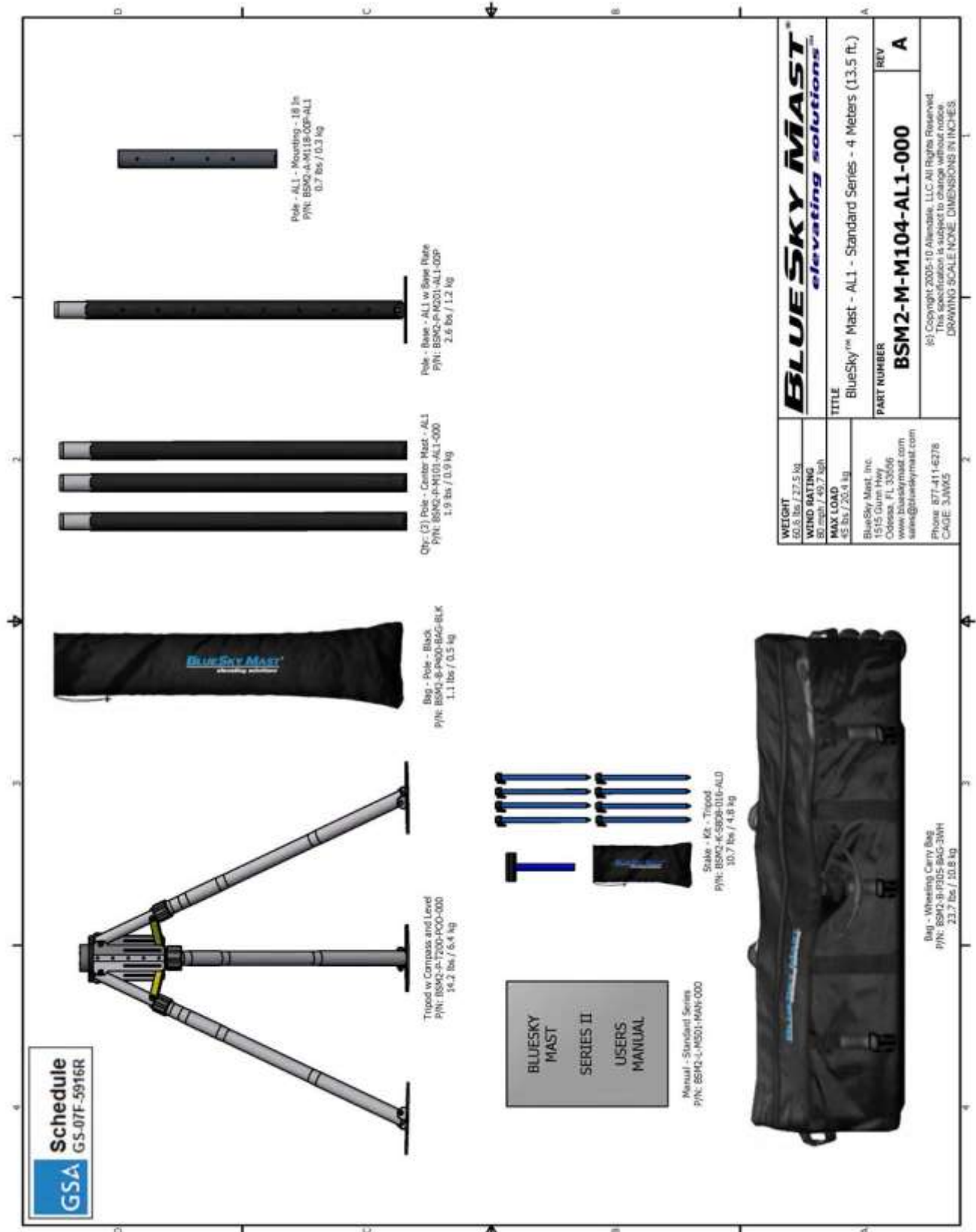
BLUESKY MAST elevating solutions SM	
WEIGHT 56.8 lbs / 25.7 kg	
WIND RATING 50 mph / 80.5 kph	
MAX LOAD 50 lbs / 22.7 kg	
BlueSky Mast, Inc. 1010 Gorm Road Cocoa, FL 32909 www.blueskymast.com sales@blueskymast.com	
TITLE BlueSky SM Mast - All1 - Standard Series - 2 Meters (7.5 ft.)	REV A
PART NUMBER BSM2-M-M102-AL1-000	
(c) Copyright 2005-10 Alandale, LLC All Rights Reserved This specification is subject to change without notice DRAWING SCALE NONE DIMENSIONS IN INCHES	



AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters

GSA Schedule GS-07F-5916R

Pole - ALL - Mounting - 18 In
P/N: BSM2-A-M118-00P-ALL
0.7 lbs / 0.3 kg

Pole - Base - ALL w Base Plate
P/N: BSM2-B-M105-ALL-00P
2.0 lbs / 1.2 kg

Qty: (4) Pole - Center Mast - ALL
P/N: BSM2-M101-ALL-000
1.9 lbs / 0.9 kg

Bag - Pole - Black
P/N: BSM2-B-P00-BAG-BLK
1.1 lbs / 0.5 kg

Tripod w Compass and Level
P/N: BSM2-T-T200-POO-000
14.2 lbs / 6.4 kg

Stake - Kt - Tripod
P/N: BSM2-K-S008-016-ALD
10.7 lbs / 4.8 kg

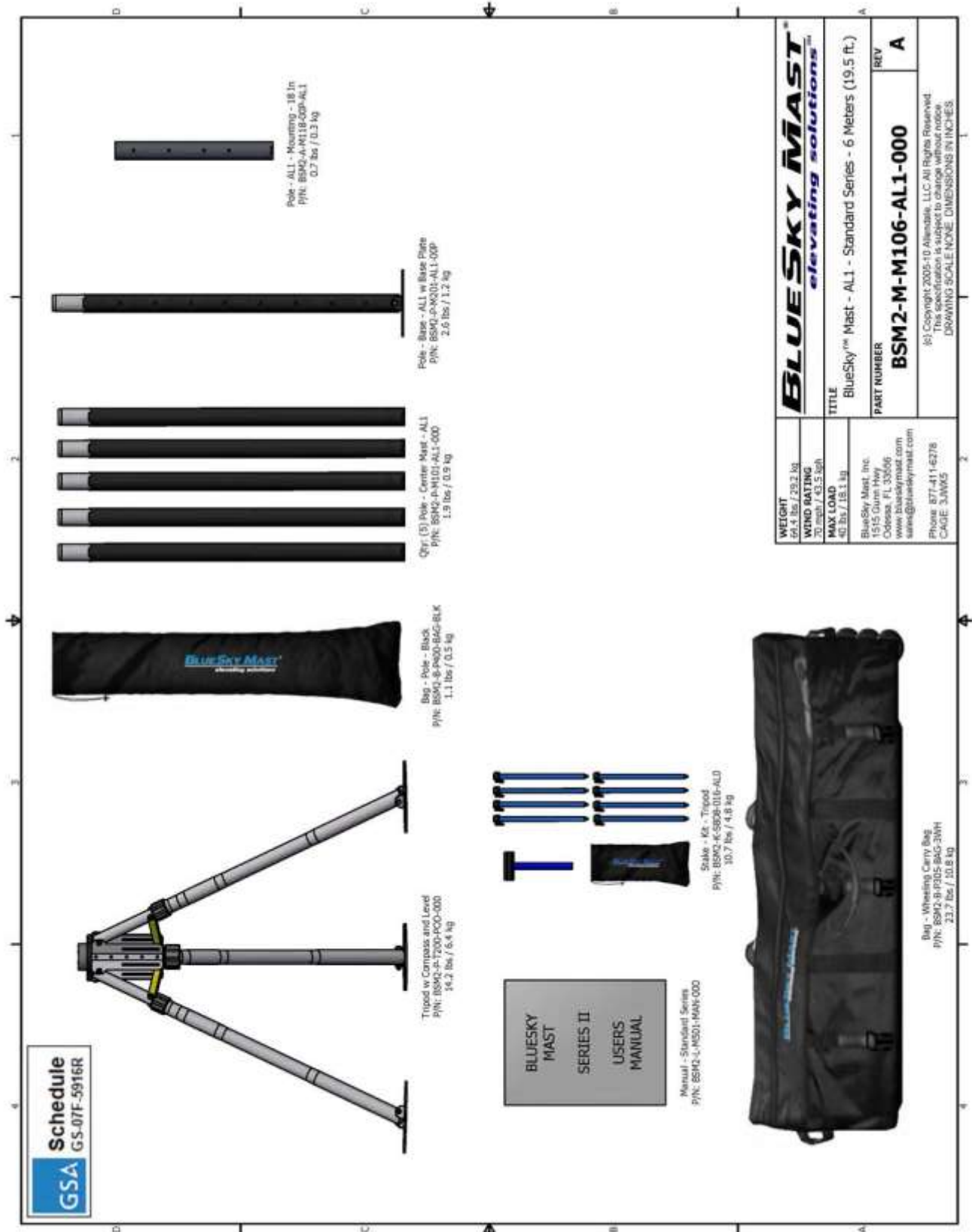
Manual - Standard Series
P/N: BSM2-L-M301-MAN-000

BLUESKY MAST SERIES II USERS MANUAL

Bag - Wheeled Carry Bag
P/N: BSM2-B-P005-BAG-3RH
23.7 lbs / 10.8 kg

WEIGHT	52.5 lbs / 28.3 kg
WIND RATING	73 mph / 46.6 kph
MAX LOAD	42.5 lbs / 19.3 kg
BlueSky Mast, Inc. 1515 Court Hwy Cocoa, FL 32906 www.blueskymast.com sales@blueskymast.com	
Phone: 877-411-6278 Fax: 321-739-1000 CAGE: 3JAW5	
BLUESKY MAST elevating solutions SM	
TITLE	BlueSky SM Mast - AL1 - Standard Series - 5 Meters (16.5 ft.)
PART NUMBER	BSM2-M-M105-ALL-000
REV	A
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AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters

Schedule GS-07F-5916R

BLUESKY MAST
SERIES II
USERS
MANUAL

Manuel - Standard Series
P/N: BSM2-C-N501-H00N-000

Tripod w/ Compass and Level
P/N: BSM2-B-T200-POO-000
14.2 lbs / 6.4 kg

Stakes - 8x - Ground Mast
P/N: BSM2-K-SB2-C16-000
14.2 lbs / 6.5 kg

Bag - Pole - Black
P/N: BSM2-B-P00-BAG-BLK
1.1 lbs / 0.5 kg

Qty: (1) 7M - Guy Rope - Primary
P/N: BSM2-P-G007-PRC-BLK
0.5 lbs / 0.2 kg

Pin On Guy Ring
P/N: BSM2-K-M100-PRG-P10
0.6 lbs / 0.3 kg

Qty: (6) Pole - Center Mast - AL1
P/N: BSM2-M-M101-ALI-000
1.9 lbs / 0.9 kg

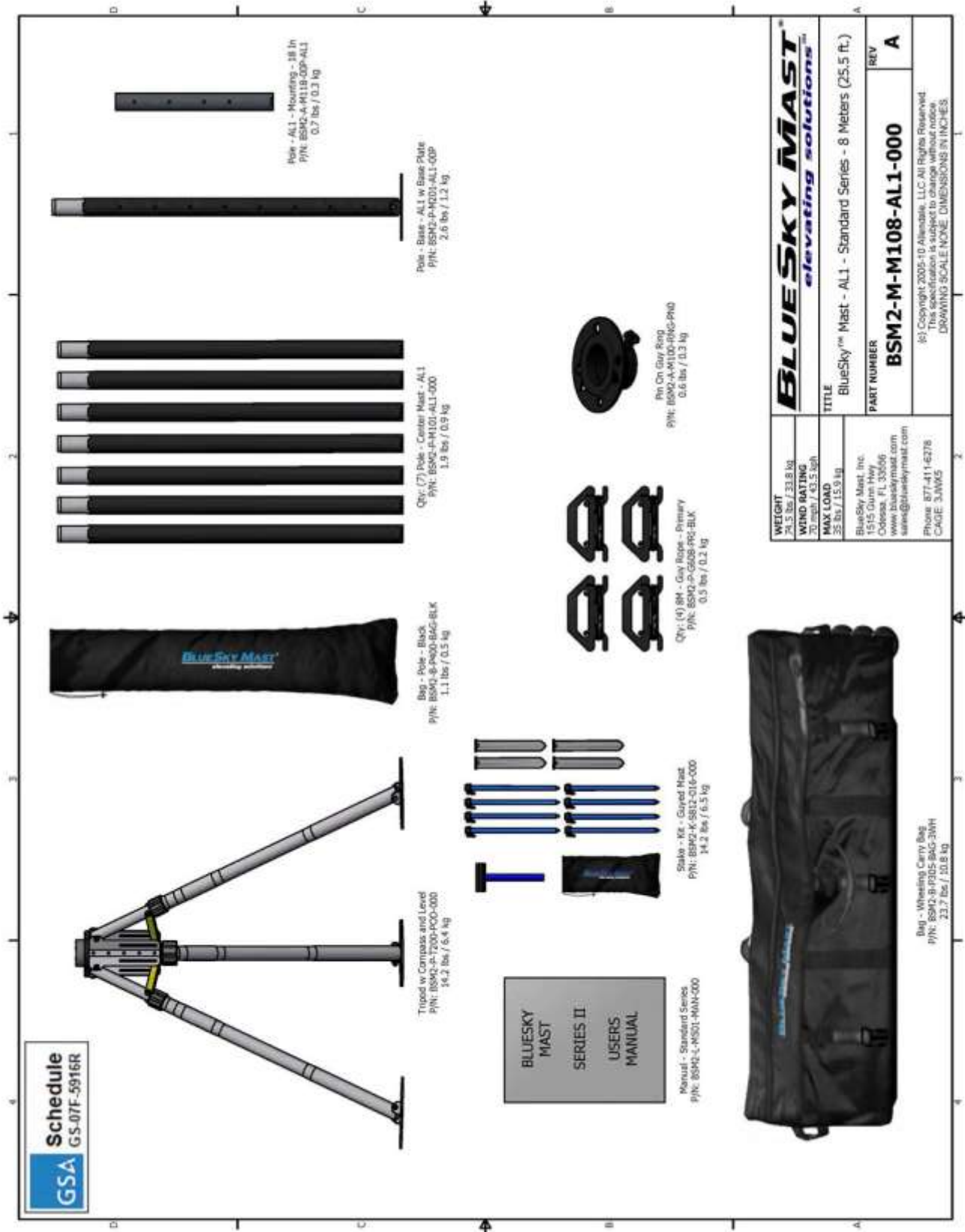
Pole - Base - AL1 w/ Base Plate
P/N: BSM2-B-M201-ALI-00P
2.8 lbs / 1.2 kg

Pole - AL1 - Mounting - 18 In
P/N: BSM2-A-M118-00P-ALI
0.7 lbs / 0.3 kg

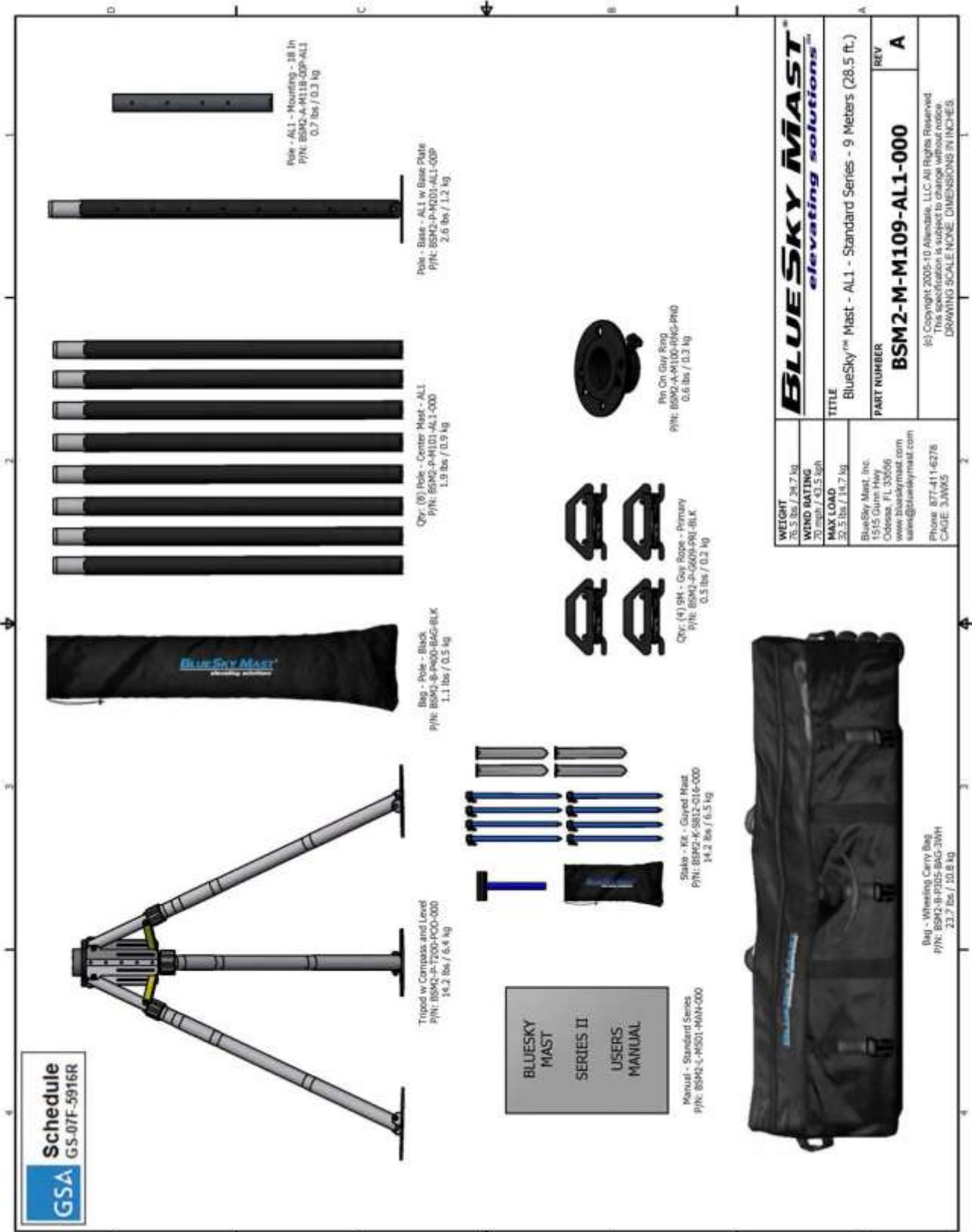
Bag - Wheeling Carry Box
P/N: BSM2-B-P105-BAG-3WH
23.7 lbs / 10.8 kg

WEIGHT	72.3 lbs / 32.8 kg
WIND RATING	15 mph / 6.2 gph
MAX LOAD	37.5 lbs / 17 kg
BlueSky Mast, Inc. 1515 Gurney Hwy Ocoosa, FL 32566 www.blueskymast.com sales@blueskymast.com	
TITLE	BlueSky SM Mast - AL1 - Standard Series - 7 Meters (22.5 ft.)
PART NUMBER	BSM2-M-M107-ALI-000
REV	A
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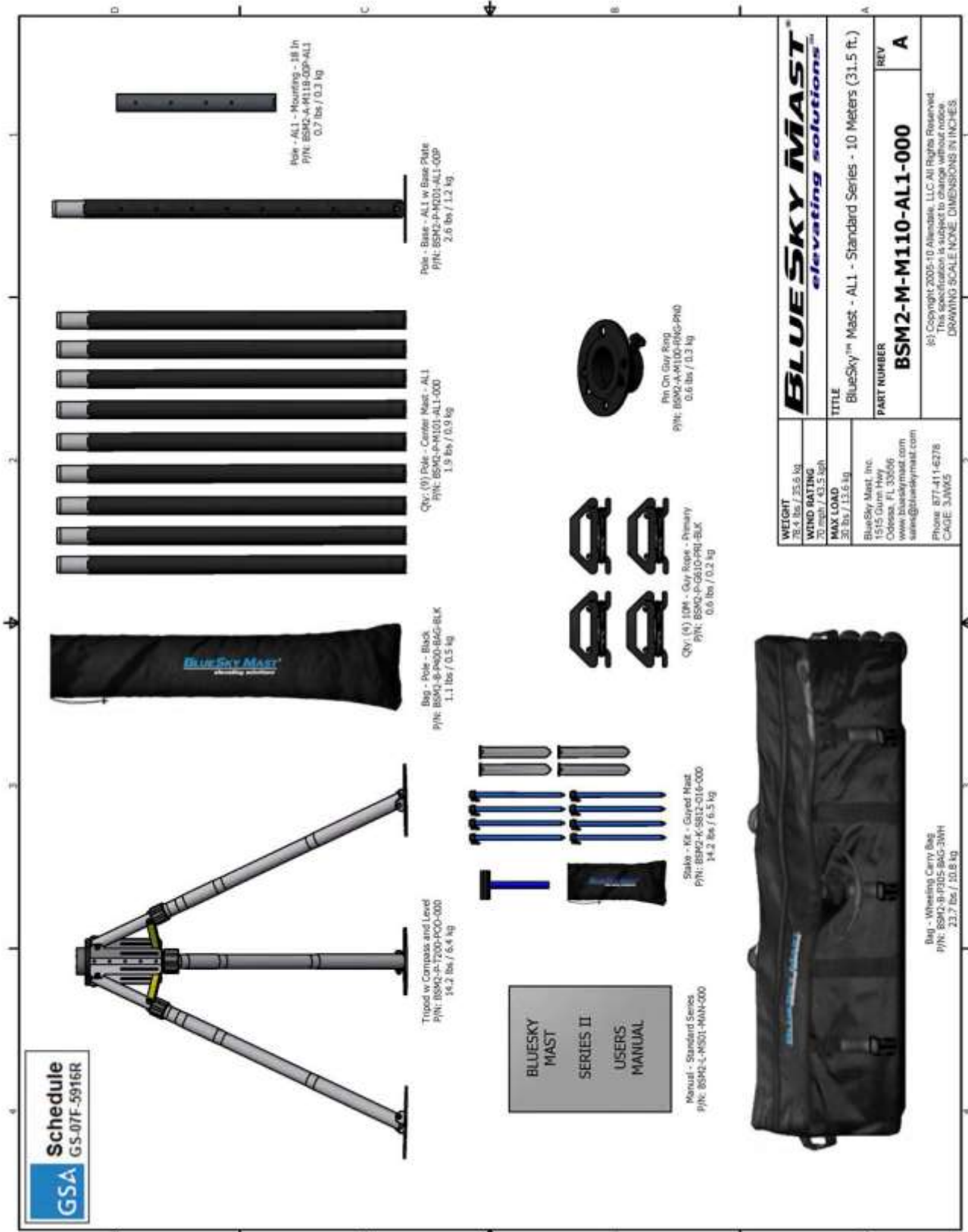
AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters

Schedule GS-07F-5916R

BLUESKY MAST SERIES II USERS MANUAL

Manul - Standard Series
P/N: BSM2-L-N501-MAN-000

Slake - Kit - Guyed Mast
P/N: BSM2-K-S812-016-000
14.2 lbs / 6.5 kg

Qty: (2) Bag - Pole - Black
P/N: BSM2-B-PN00-BAG-BLK
1.1 lbs / 0.5 kg

Qty: (4) 1/4" - Guy Rope - Primary
P/N: BSM2-P-0611-R91-BLK
0.6 lbs / 0.3 kg

Qty: (10) Pole - Center Mast - ALL
P/N: BSM2-P-M101-ALL-000
1.9 lbs / 0.9 kg

Qty: (1) Pole - Base - ALL w/ Base Plate
P/N: BSM2-P-M01-ALL-00P
2.6 lbs / 1.2 kg

1/4" Guying - Kit - Secondary
P/N: BSM2-K-0611-2ND-GRY
7.4 lbs / 3.3 kg

1/4" On Guy Ring
P/N: BSM2-A-M100-RNC-PN0
0.6 lbs / 0.3 kg

Pole - ALL - Mounting - 1/8" In
P/N: BSM2-A-M118-00P-ALL
0.7 lbs / 0.3 kg

Tripod w/ Compass and Level
P/N: BSM2-P-T200-POD-000
14.2 lbs / 6.4 kg

Bag - Wheeled Carry Bag
P/N: BSM2-B-P305-BAG-3WH
23.7 lbs / 10.8 kg

WEIGHT	88.7 lbs / 40.2 kg
WIND RATING	70 mph / 43.5 mph
MAX LOAD	25 lbs / 11.3 kg
BlueSky Mast, Inc. 1915 Gurn Hwy Cocoa, FL 32906 www.blueskymast.com sales@blueskymast.com	
PHONE	877-411-6278
CAGE	3AW5

BLUE SKY MASTSM
elevating solutionsSM

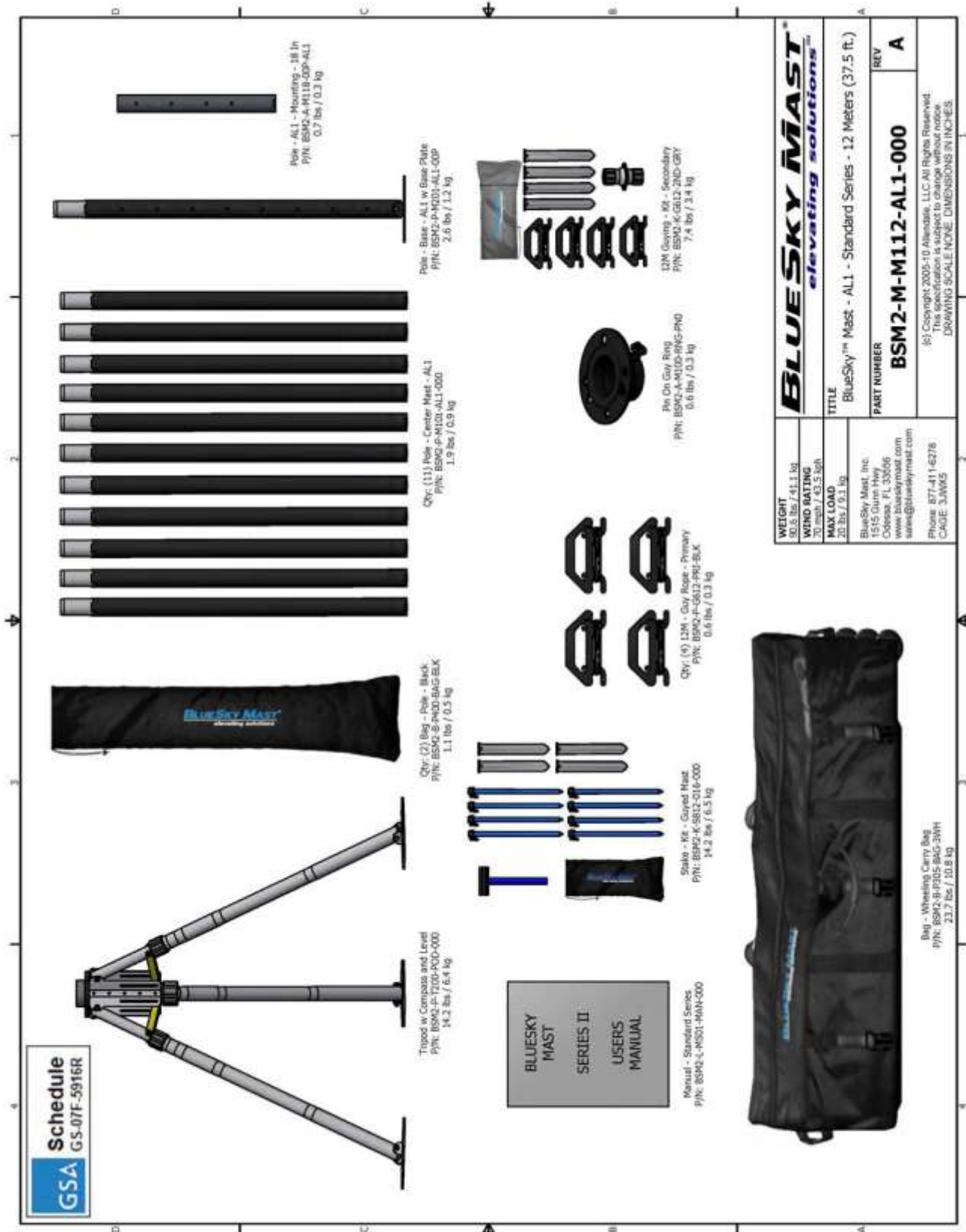
TITLE
BlueSkySM Mast - ALL - Standard Series - 11 Meters (34.5 ft.)

PART NUMBER
BSM2-M-M111-ALL-000

REV
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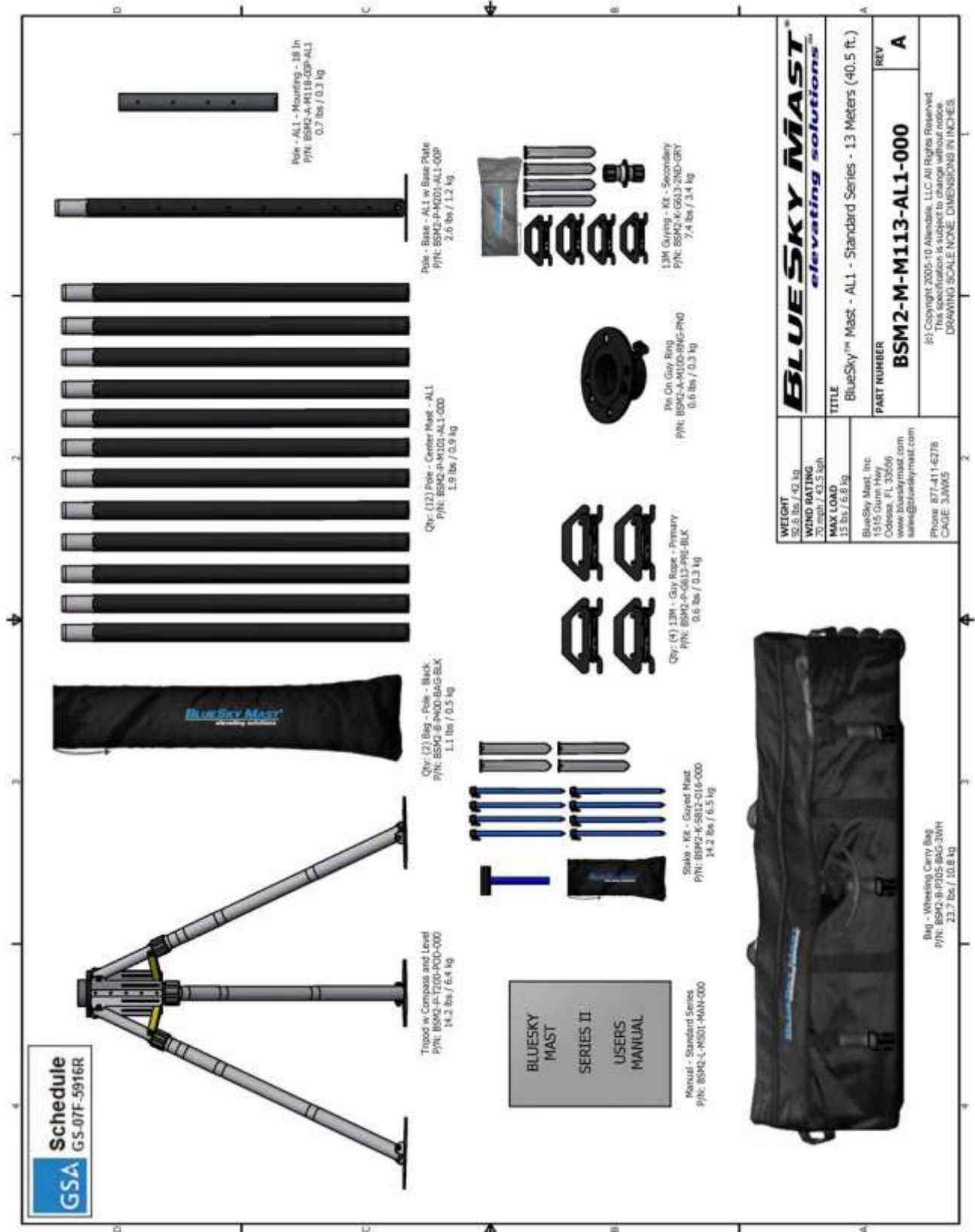
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DRAWING SCALE NONE. DIMENSIONS IN INCHES.

AL1 Datasheets for Mast 2 through 15 Meters

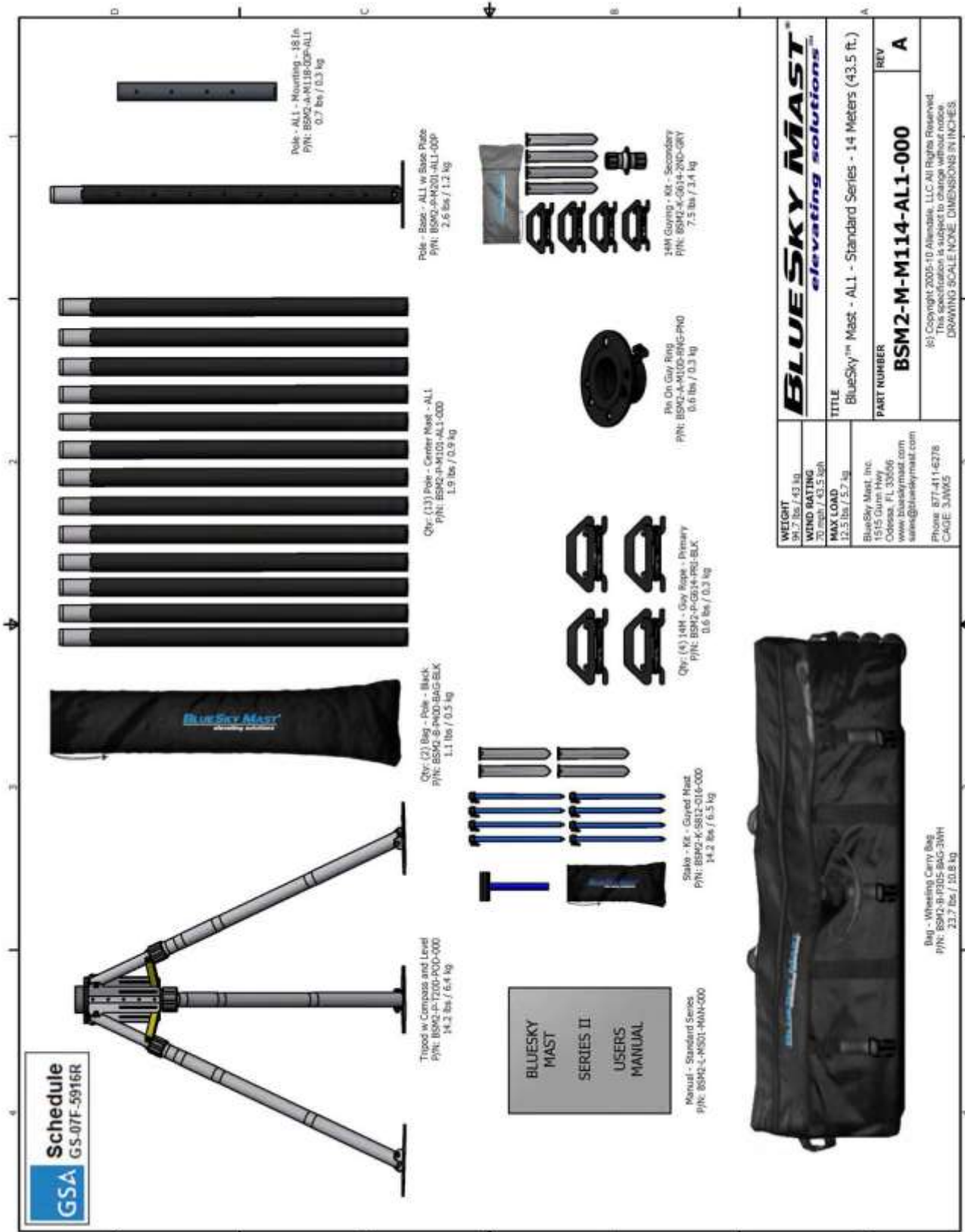


BLUESKY MAST elevating solutions SM	
TITLE BlueSky™ Mast - AL1 - Standard Series - 12 Meters (37.5 ft.)	REV A
PART NUMBER BSM2-M-M112-AL1-000	
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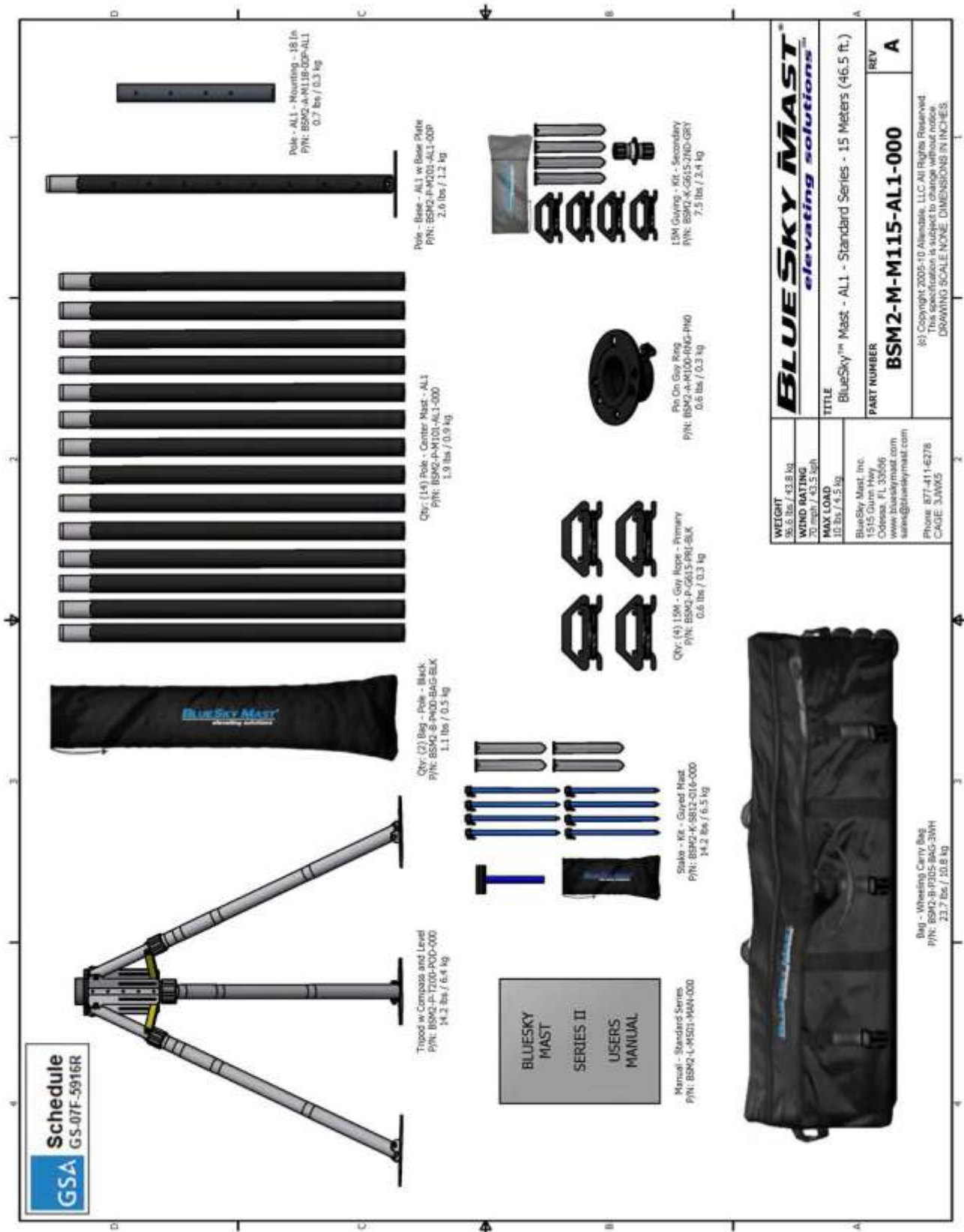
AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters

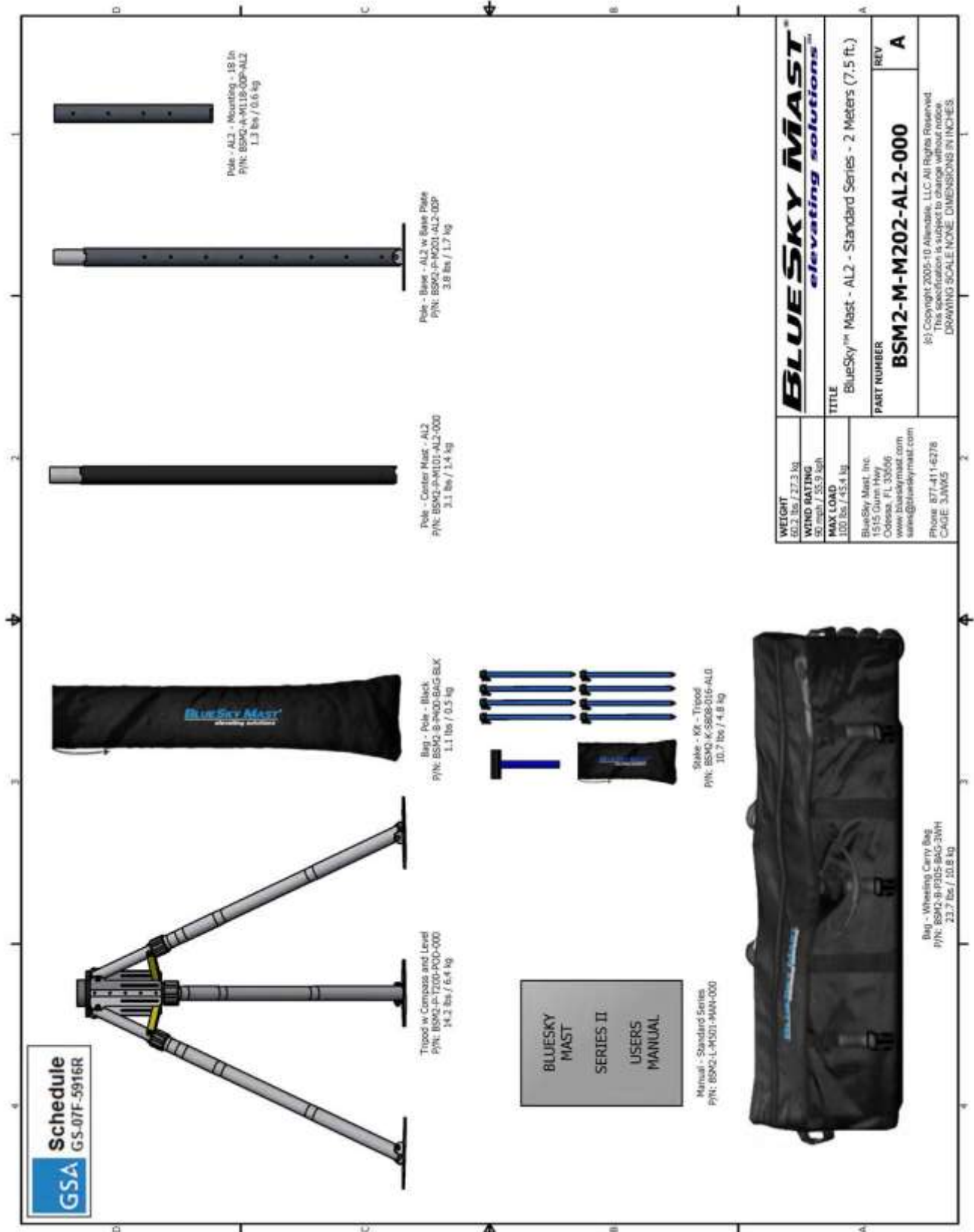


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Schedule
GS-07F-5916R

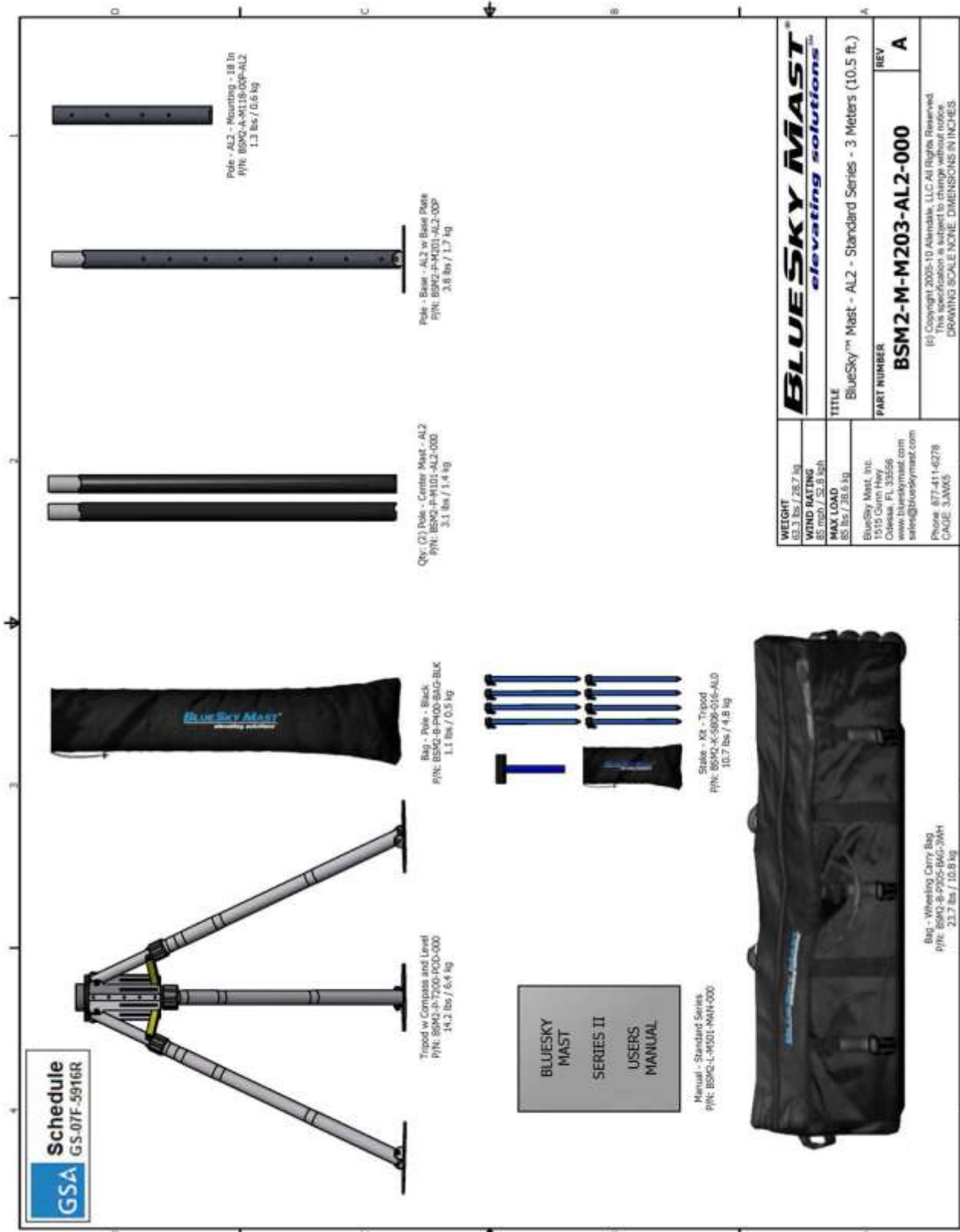
WEIGHT	95.6 lbs / 43.8 kg
WIND RATING	70 mph / 43.5 mph
MAX LOAD	10 lbs / 4.5 kg
TITLE	BLUESKY MAST elevating solutions SM
REV	A
PART NUMBER	BSM2-M-M115-ALL-000
DESCRIPTION	BlueSky SM Mast - ALL - Standard Series - 15 Meters (46.5 ft.)
REV	A
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BlueSky Mast, Inc.
16150 Gwynn Rd.
Columbia, IL 62239
www.blueskymast.com
sales@blueskymast.com
Phone: 877-411-6278
CAGE: 3JAW5

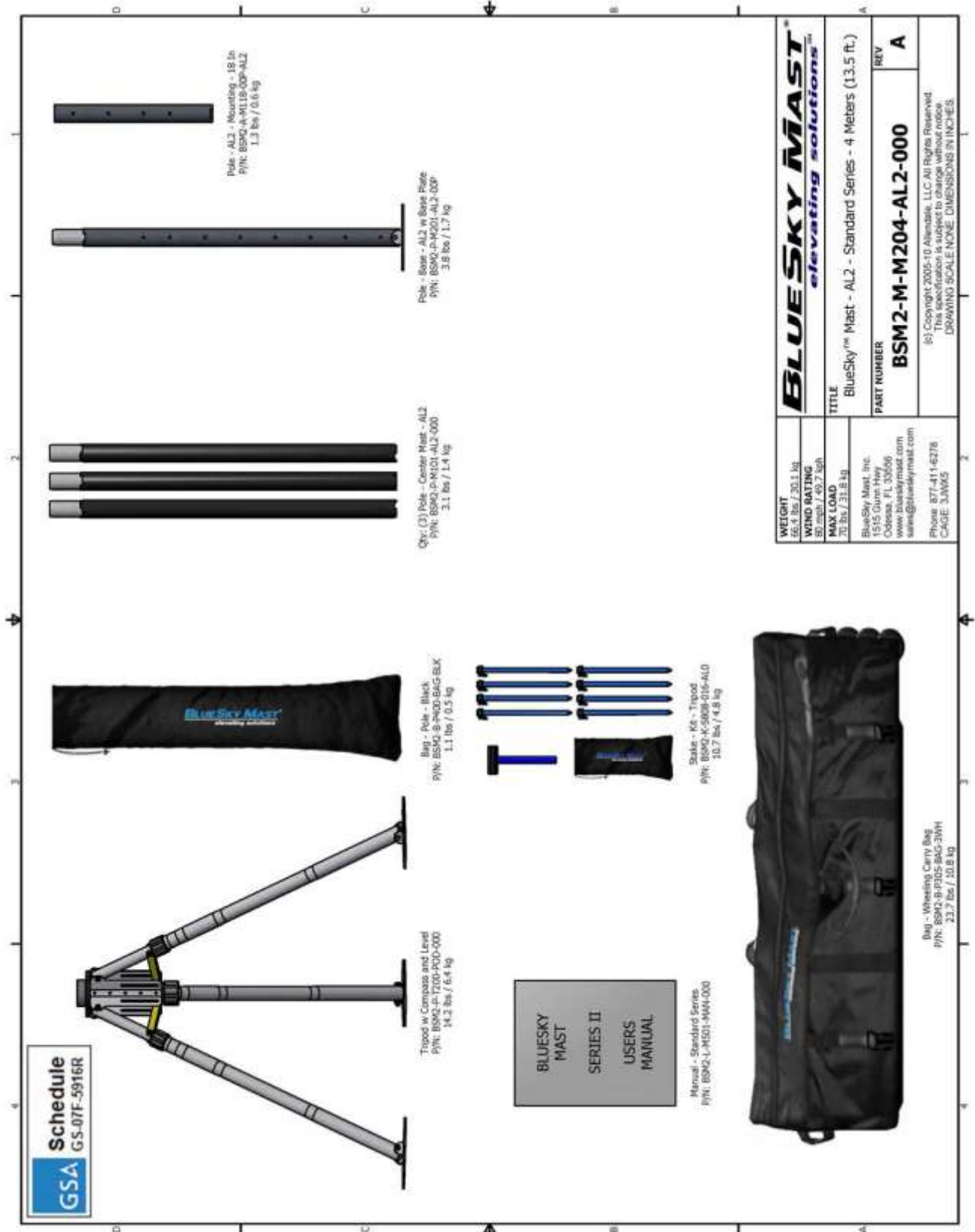
AL2 Datasheets for Mast 2 through 15 Meters



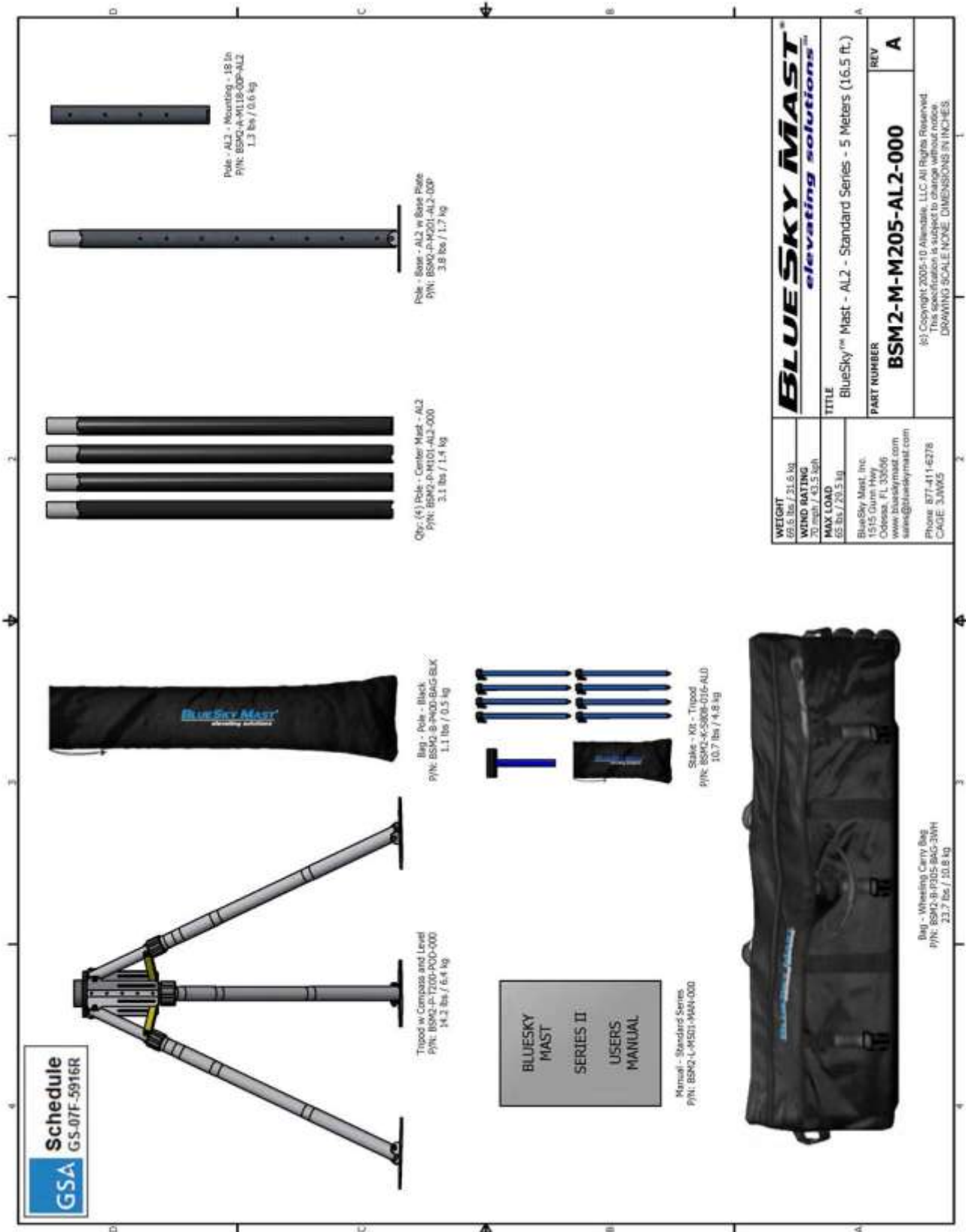
AL2 Datasheets for Mast 2 through 15 Meters



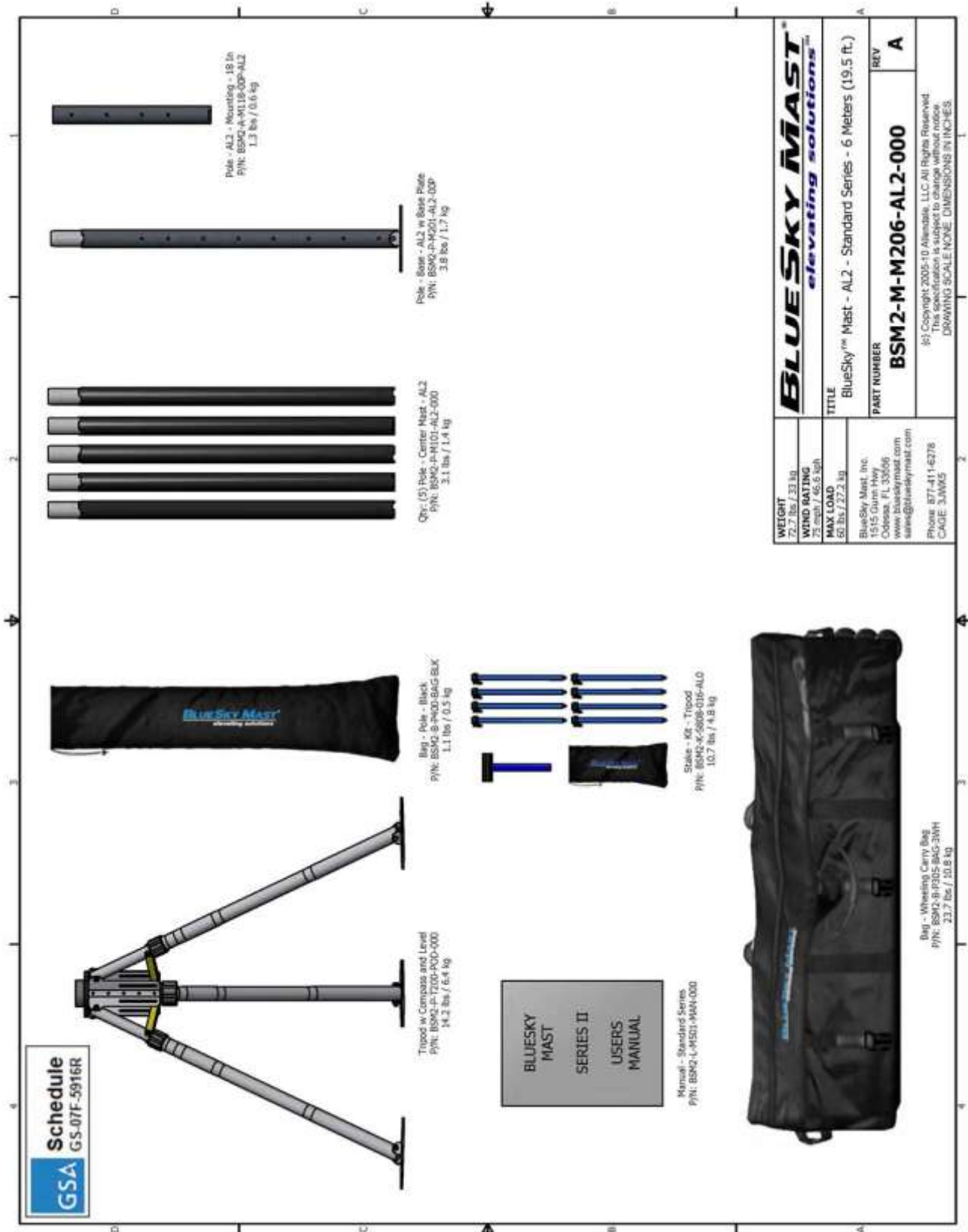
AL2 Datasheets for Mast 2 through 15 Meters



AL2 Datasheets for Mast 2 through 15 Meters



AL2 Datasheets for Mast 2 through 15 Meters



BLUESKY MAST elevating solutions SM	
WEIGHT 72.7 lbs / 33 kg	TITLE BlueSky SM Mast - AL2 - Standard Series - 6 Meters (19.5 ft.)
WIND RATING 75 mph / 46.6 kph	MAX LOAD 60 lbs / 27.2 kg
BlueSky Mast, Inc. 1515 Gurney Hwy Ocoosa, FL 33566 www.blueskymast.com sales@blueskymast.com	
REV A	PART NUMBER BSM 2-M-M206-AL2-000
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AL2 Datasheets for Mast 2 through 15 Meters

Schedule GS-07F-5916R

BLUESKY MAST SERIES II USERS MANUAL

Manuel - Standard Series
P/N: BSM2-L-MS01-9404-000

Shake - Kit - Guyed Mast
P/N: BSM2-K-5812-016-000
14.2 lbs / 6.5 kg

Slake - Kit - Guy Rope - Primary
P/N: BSM2-P-5607-PR1-BLK
0.5 lbs / 0.2 kg

Qty: (6) Pole - Center Mast - AL2
P/N: BSM2-M-M101-AL2-000
3.1 lbs / 1.4 kg

Qty: (6) Guy Ring
P/N: BSM2-A-M103-MRG-PR0
0.6 lbs / 0.3 kg

Bag - Pole - Black
P/N: BSM2-B-M03-BAG-BLK
1.1 lbs / 0.5 kg

Truss w/ Compass and Level
P/N: BSM2-P-T205-POD-000
14.2 lbs / 6.4 kg

Pole - Base - AL2 w Base Plate
P/N: BSM2-M-M207-AL2-00P
3.8 lbs / 1.7 kg

Pole - AL2 - Mounting - 18 In
P/N: BSM2-A-M118-00P-AL2
1.3 lbs / 0.6 kg

Stake - Wheeling Carry Bag
P/N: BSM2-B-P305-BAG-3WH
23.7 lbs / 10.8 kg

Weight
82.1 lbs / 37.2 kg

Wind Rating
70 mph / 43.5 mph

Max Load
57.5 lbs / 26.1 kg

BlueSky Mast, Inc.
1515 Gurney Hwy
Ocala, FL 33506
www.blueskymast.com
sales@blueskymast.com

Phone: 877-411-6278
CAGE: 5AW05

REV A

Part Number BSM2-M-M207-AL2-000

BlueSky Mast - AL2 - Standard Series - 7 Meters (22.5 ft.)

BLUESKY MAST elevating solutionsSM

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AL2 Datasheets for Mast 2 through 15 Meters

GSA Schedule GS-07F-5916R

Pole - AL2 - Mounting - 18 In
P/N: BSMQ-A-M118-DGP-AL2
1.3 lbs / 0.6 kg

Pole - Base - AL2 w Base Plate
P/N: BSMQ-B-M208-AL2-DGP
3.0 lbs / 1.7 kg

Qty: (7) Pole - Center Mast - AL2
P/N: BSMQ-A-M101-AL2-000
3.1 lbs / 1.4 kg

Pin On Guy Rope
P/N: BSMQ-A-M100-RMC-PHO
0.6 lbs / 0.3 kg

Qty: (1) Bag - Guy Ropes - Primary
P/N: BSMQ-P-G39-PRG-BLK
0.3 lbs / 0.1 kg

Slake - Kit - Guyed Mast
P/N: BSMQ-K-SBLL-016-000
14.2 lbs / 6.5 kg

Mirror - Standing Series
P/N: BSMQ-L-M501-V484-000

Tripod w Compass and Level
P/N: BSMQ-P-T200-POD-000
14.2 lbs / 6.4 kg

Qty: (1) Bag - Black
P/N: BSMQ-B-P400-BAG-BLK
1.1 lbs / 0.5 kg

Slake - Kit - Guyed Mast
P/N: BSMQ-K-SBLL-016-000
14.2 lbs / 6.5 kg

BLUESKY MAST SERIES II USERS MANUAL
P/N: BSMQ-L-M501-V484-000

Bag - Pole
P/N: BSMQ-B-P400-BAG-BLK
1.1 lbs / 0.5 kg

Slake - Kit - Guyed Mast
P/N: BSMQ-K-SBLL-016-000
14.2 lbs / 6.5 kg

Bag - Wheeling Carry Bag
P/N: BSMQ-B-P305-BAG-3WH
23.7 lbs / 10.8 kg

WEIGHT	85.2 lbs / 38.7 kg
WIND RATING	70 mph / 63.5 mph
MAX LOAD	55 lbs / 24.9 kg
BlueSky Mast, Inc. 1315 Gum Hill Way Cobleskill, NY 13326 www.blueskymast.com sales@blueskymast.com	
Phone:	877-411-6278
CAGE:	3JAW5

BLUE SKY MAST
elevating solutionsSM

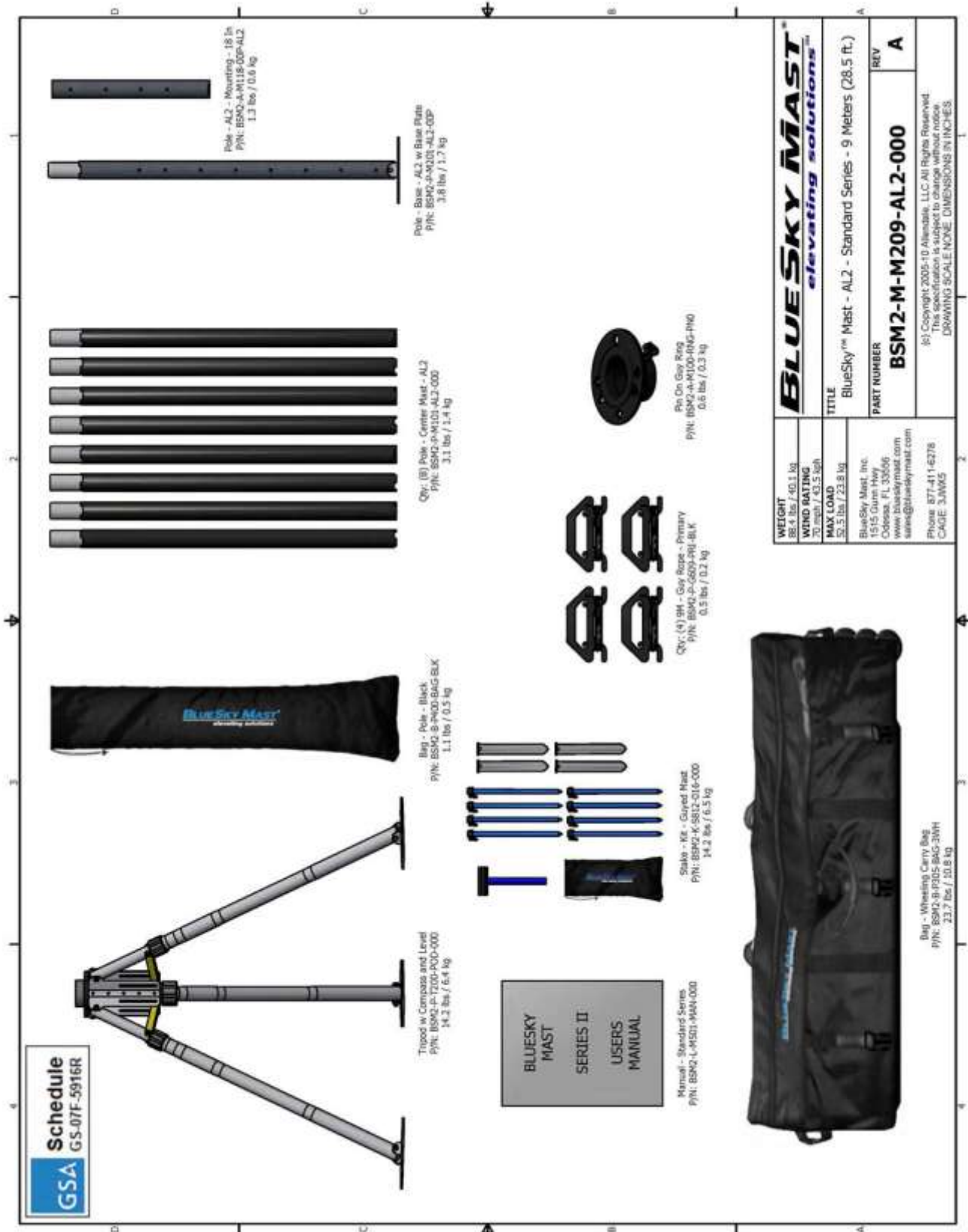
TITLE
BlueSky™ Mast - AL2 - Standard Series - 8 Meters (25.5 ft.)

PART NUMBER
BSM2-M-M208-AL2-000

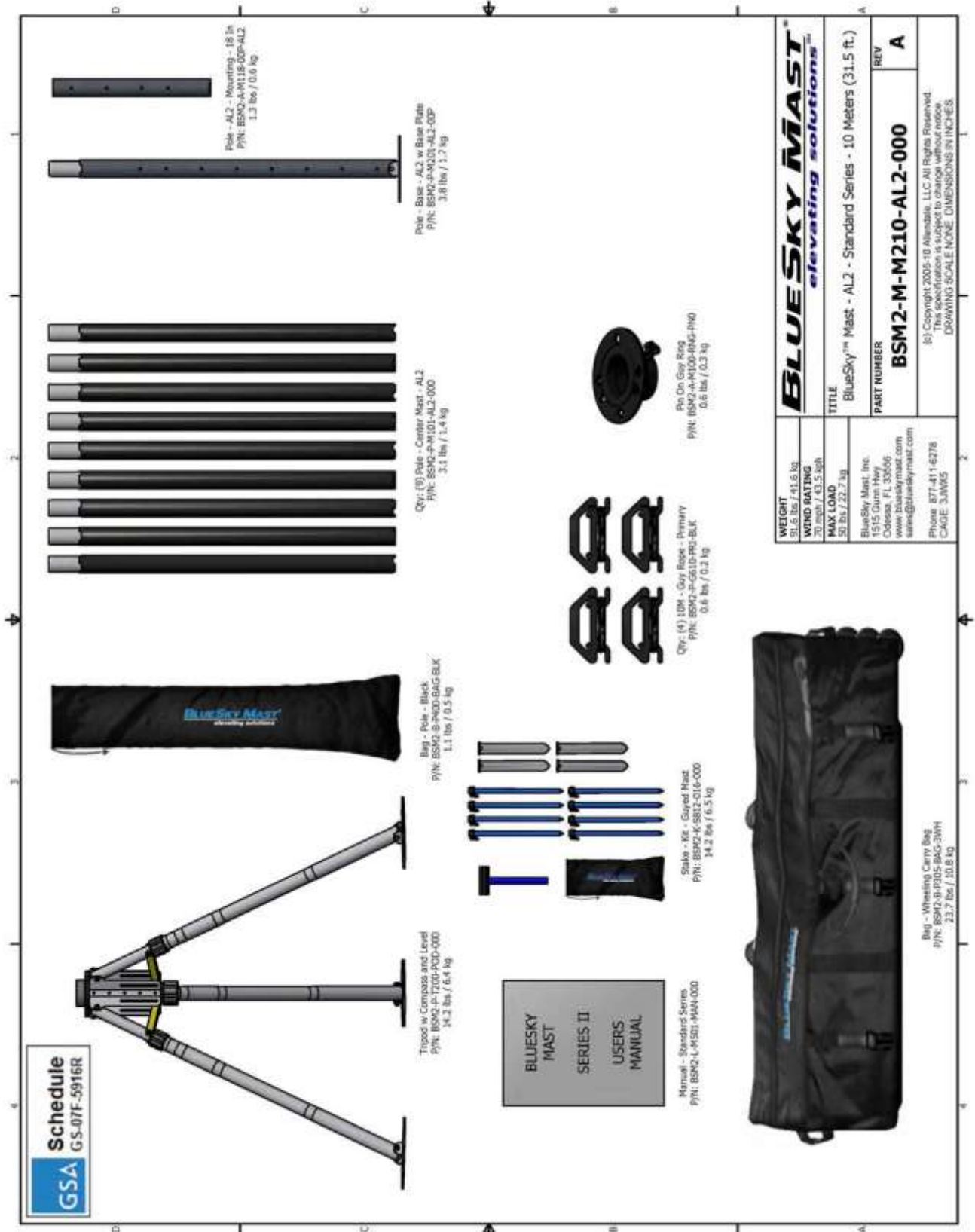
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DRAWING SCALE: NONE DIMENSIONS IN INCHES

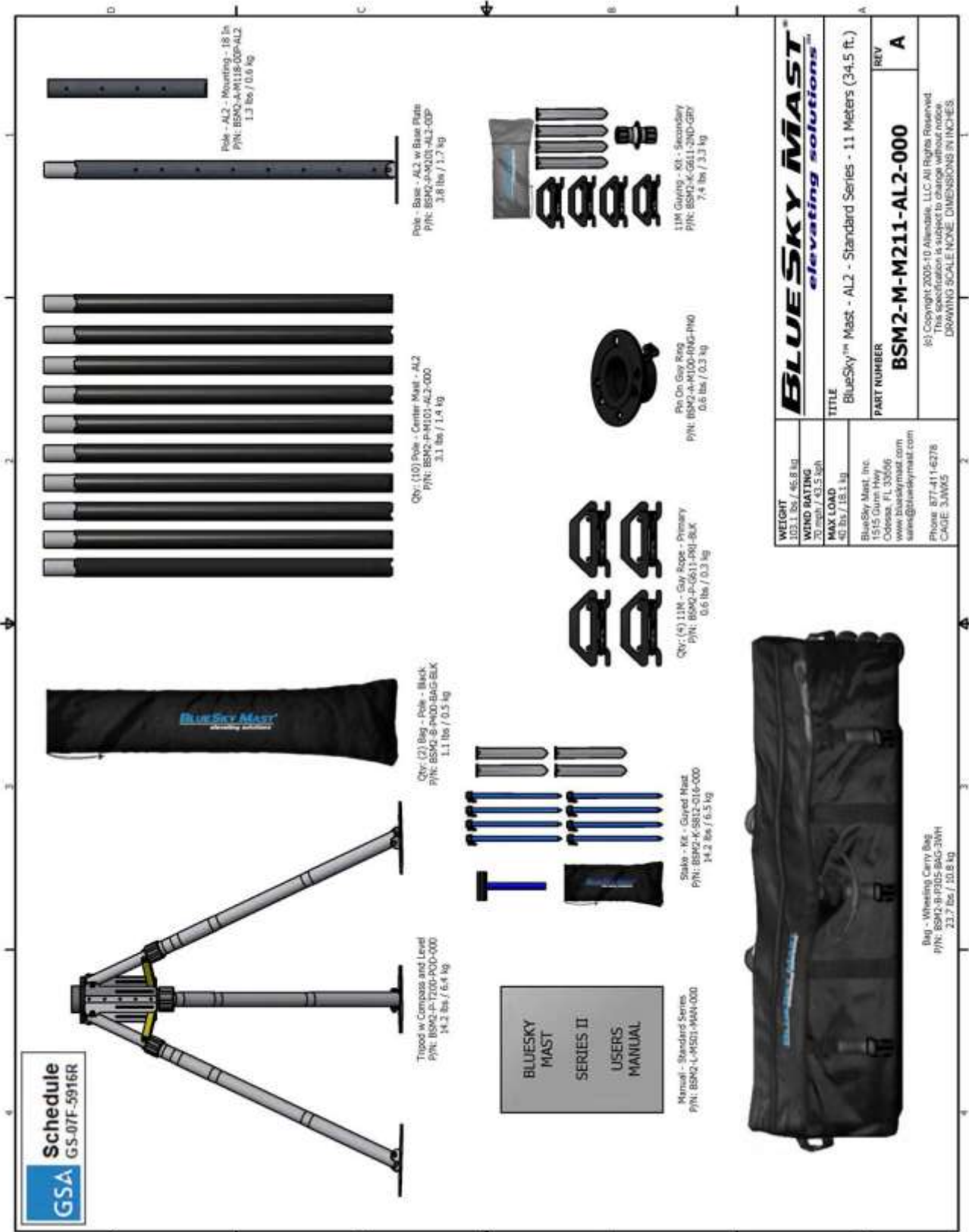
AL2 Datasheets for Mast 2 through 15 Meters



AL2 Datasheets for Mast 2 through 15 Meters



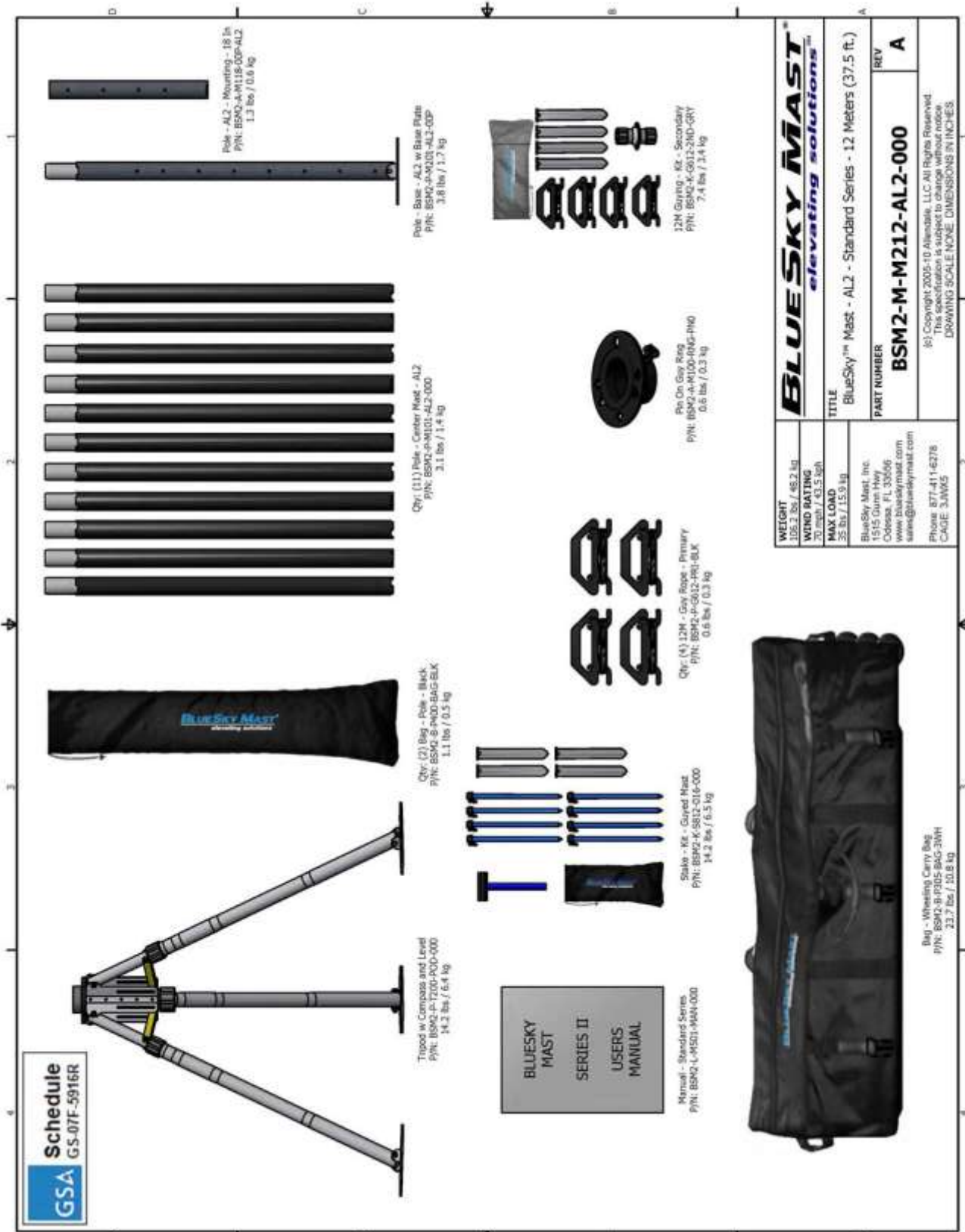
AL2 Datasheets for Mast 2 through 15 Meters



GSA
Schedule
GS-07F-5916R

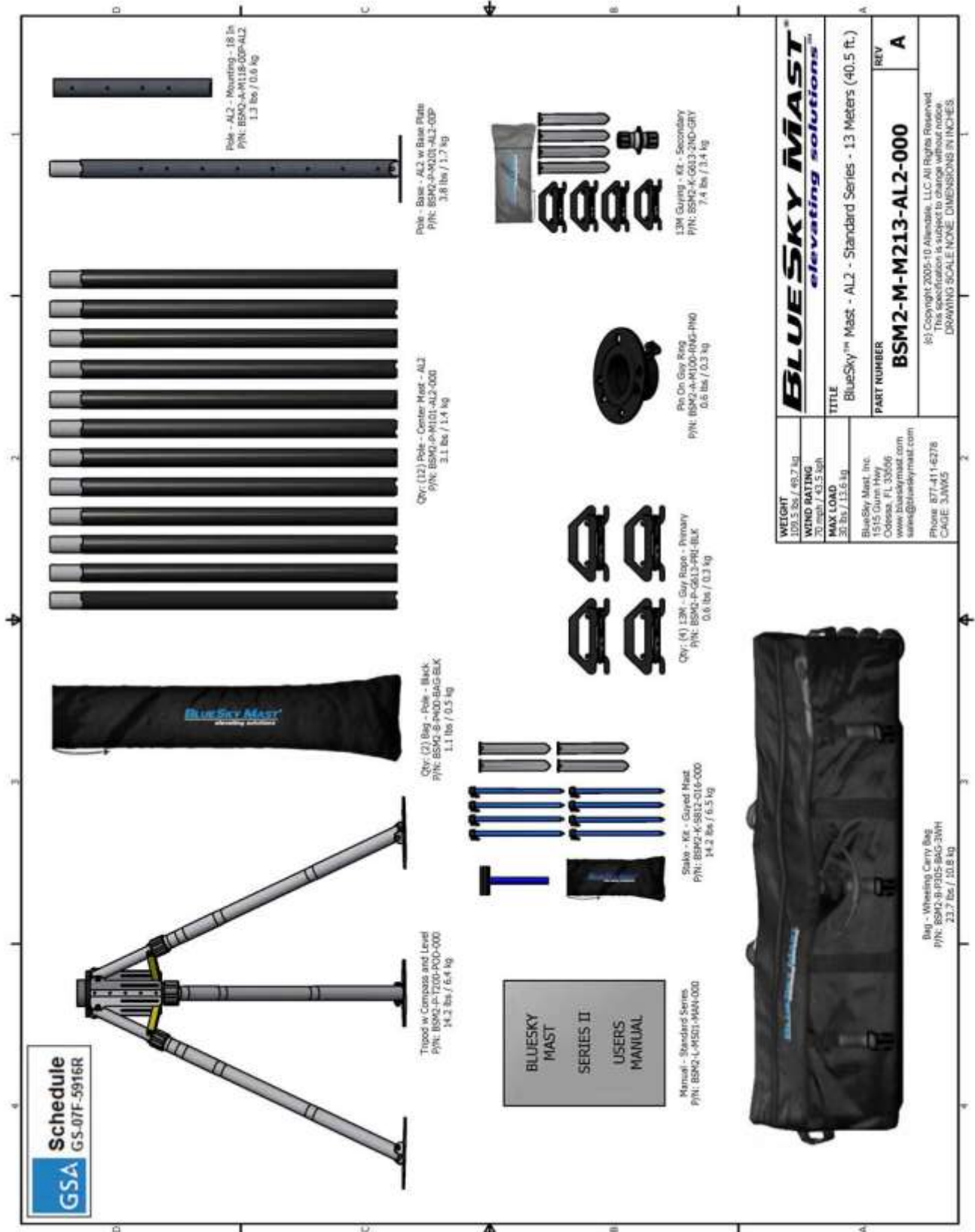
BLUESKY MAST elevating solutions SM	
WEIGHT 103.1 lbs / 46.8 kg	WIND RATING 20 mph / 43.5 kph
MAX LOAD 40 lbs / 18.1 kg	TITLE BlueSky SM Mast - AL2 - Standard Series - 11 Meters (34.5 ft.)
BlueSky Mast, Inc. 1515 Gum Hwy Ocoosa, FL 33556 www.blueskymast.com sales@blueskymast.com	PART NUMBER BSM2-M-M211-AL2-000
Phone: 877-411-6278 CAGE 3JMM5	REV A
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AL1 Datasheets for Mast 2 through 15 Meters

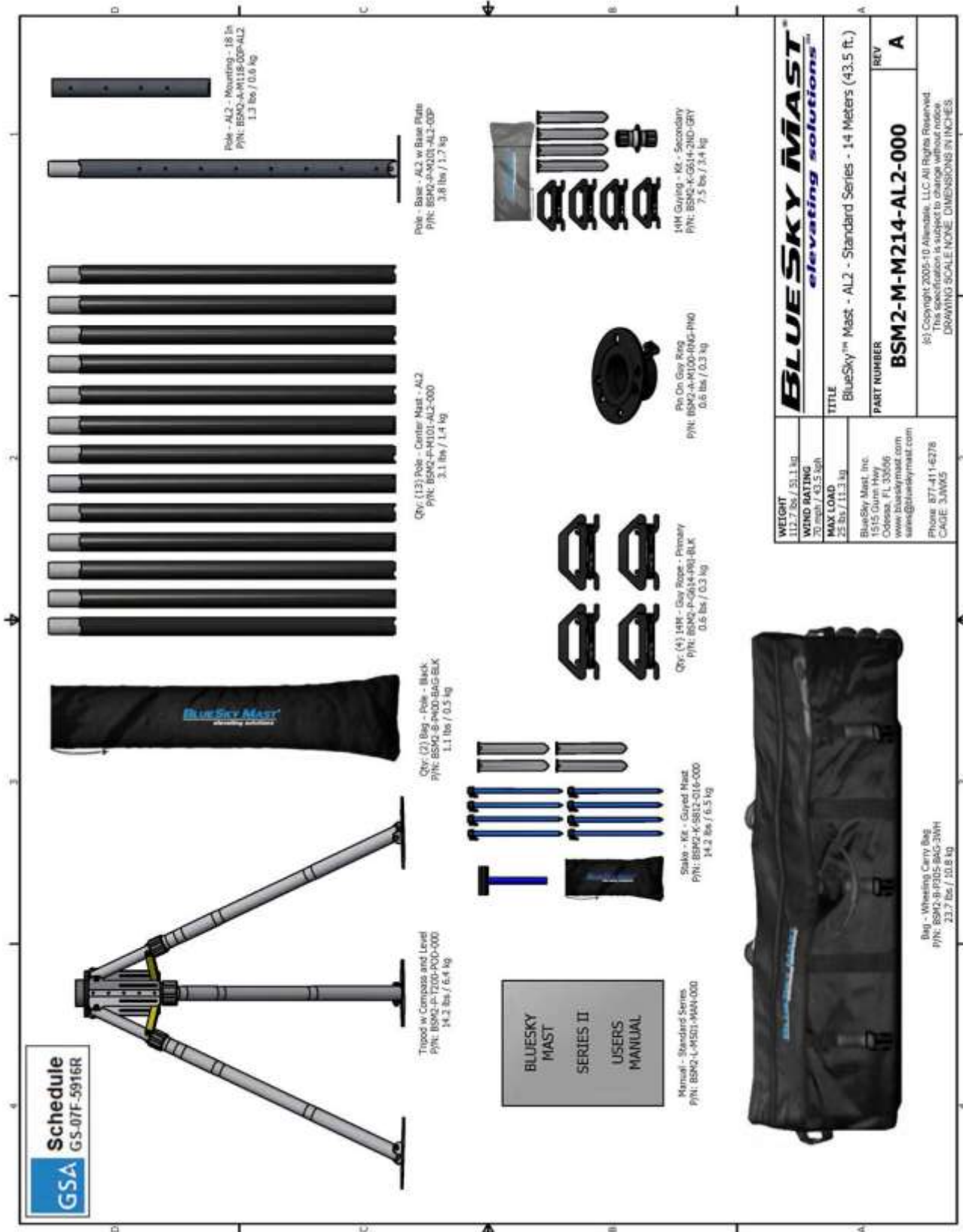


BLUESKY MAST elevating solutions SM	
WEIGHT 106.2 lbs / 48.2 kg	REV A
WIND RATING 70 mph / 43.5 kph	TITLE BlueSky™ Mast - AL2 - Standard Series - 12 Meters (37.5 ft.)
MAX LOAD 35 lbs / 15.9 kg	PART NUMBER BSM2-M-M212-AL2-000
BlueSky Mast, Inc. 1515 Gurne Hwy Ocoosa, FL 33566 www.blueskymast.com sales@blueskymast.com	<small>© Copyright 2005-10 Altemble, LLC All Rights Reserved. This specification is subject to change without notice. DRAWING SCALE NONE. DIMENSIONS IN INCHES.</small>

AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters



AL1 Datasheets for Mast 2 through 15 Meters

Schedule GS-07F-5916R

BLUESKY MAST
elevating solutionsSM

WIND RATING
70 mph / 93.2 mph

MAX LOAD
20 lbs / 9.1 kg

WEIGHT
115.2 lbs / 52.3 kg

BlueSky Mast, Inc.
1915 Gurn Hwy
Cocoa, FL 32906
www.blueskymast.com
sales@blueskymast.com

REV
A

TITLE
BlueSky™ Mast - AL2 - Standard Series - 15 Meters (46.5 ft.)

PART NUMBER
BSM2-M-M215-AL2-000

REV
A

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DRAWING SCALE NONE DIMENSIONS IN INCHES

BLUESKY MAST SERIES II USERS MANUAL

Manuel - Standard Series
P/N: BSM2-L-MS01-9904-000

Stake - Kit - Guyed Mast
P/N: BSM2-K-SS12-016-000
14.2 lbs / 6.5 kg

Qty: (2) Bag - Pole - Black
P/N: BSM2-B-P00-BAG-BLK
1.1 lbs / 0.5 kg

Qty: (4) 19K - Guy Bags - Primary
P/N: BSM2-P-0615-PRI-BLK
0.6 lbs / 0.3 kg

Qty: (4) 19K - Guy Bags - Secondary
P/N: BSM2-A-0615-SEC-GRY
7.1 lbs / 3.1 kg

Pin On Guy Bag
P/N: BSM2-A-M100-PRC-PHO
0.6 lbs / 0.3 kg

15M Clamps - Kit - Secondary
P/N: BSM2-K-0615-2ND-GRY
7.1 lbs / 3.1 kg

Pole - Base - AL2 w Base Plate
P/N: BSM2-P-0201-AL2-00P
3.8 lbs / 1.7 kg

Qty: (14) Pole - Center Mast - AL2
P/N: BSM2-P-M101-AL2-000
3.1 lbs / 1.4 kg

Pole - AL2 - Mounting - 18 In
P/N: BSM2-A-M118-00P-AL2
1.3 lbs / 0.6 kg

Tripod w Compass and Level
P/N: BSM2-P-T201-P00-000
14.2 lbs / 6.4 kg

Bag - Wheeled Carry Bag
P/N: BSM2-B-P305-BAG-3WH
23.7 lbs / 10.8 kg

Standard Series Accessory Guide

ONE MAST
INFINITE CONFIGURATIONS



Top Plates and Adaptors



Universal Pole Mounts and Brackets



Universal Pole Kits



Universal Side Mounts



Grounding, Guying and Base Plates






Specialty Items



Standard Series Accessory Guide

Top Adaptors

<p>Your Device Mounted Here</p>  <p>Mounting Plate</p> <p>Pin On Threaded Adaptor BSM2-A-M510-PIN-000</p> <p>Mounting Pole</p>	<p>Antenna or Device 1.25 to 2 Inches</p>  <p>Pin On Pole Adaptor BSM2-P-M20-MPA-000</p> <p>Mounting Pole</p>	<p>COM201B or OE254 Antenna</p>  <p>Pin On COM201B/OE254 Insulated Adaptor BSM2-A-M510-PIN-000</p> <p>Mounting Pole</p>
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Top Plates *(Not All Plates Shown)*

NATO (Plate Only) BSM2-A-M305-NT0-000	NATO (w/Adaptor) BSM2-A-M305-NT0-00A	11 x 11 (Plate Only) BSM2-A-M411-MPP-000	11 x 11 (w/Adaptor) BSM2-A-M411-MPP-00A	
Cross Pattern (Plate Only) BSM2-A-M408-MPP-000	Cross Pattern (w/Adaptor) BSM2-A-M408-MPP-00A	Cisco (Plate Only) BSM2-A-M410-CSC-000	Cisco (w/Adaptor) BSM2-A-M410-CSC-00A	
7.5 x 7.5 (Plate Only) BSM2-A-M407-WPP-000	7.5 x 7.5 (w/Adaptor) BSM2-A-M407-MPP-00A	Radar (Plate Only) BSM2-A-M400-MPP-RDR	Radar (w/Adaptor) BSM2-A-M400-MPP-RDA	
Tampa Micro Satsim BSM2-A-M410-MPA-TM2	Pelco and LRTI Plate BSM2-A-M450-SAC-000	RadioWaves SPD-5.2NS BSM2-A-M416-RWV-000	TracPhone KVH-V7 BSM2-K-M309-MPP-TRC	Hoffman NEMA Plate BSM2-A-M412-HFM-000

Standard Series Accessory Guide

Universal Pole Mounts and Brackets



Universal Pole Mount (Dual Sided)
BSM2-P-A352-T00-000

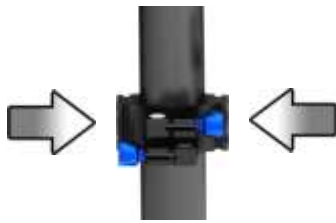


Position Universal Pole Mount (s)
Anywhere on the Mast



Secure the Universal Pole Mount by
latching and tightening the turn knobs

Universal Pole Mount



Dual Sided



Universal Articulating
Arm Bracket

AND
OR



Universal
Tilt Bracket

AND
OR



Universal
Plate Bracket



Universal Tilt Bracket
BSM2-P-A349-BRK-000

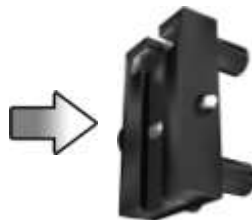


Mounting Plate or Plate Bracket can be
Mounted to the
Universal Tilt Bracket

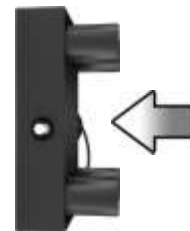
Mounting Plate
or
Universal Plate
Bracket Here



Universal Plate Bracket
BSM2-P-A348-BRK-000



Universal Plate Bracket connects to the Universal
Pole Mount or Universal Tilt Bracket



Mounting
Plate Here

Mounting Plate connects directly to
Universal Plate Bracket



Universal Articulating Arm Bracket
BMS2-P-A350-BRK-000

Slotted Side Arms (6-44 Inches)
Connect to the Articulating Arm Bracket



Standard Series Accessory Guide

Universal Pole Kits



Single with Bolster Plate

(1) Universal Pole Mount Dual Sided, (1) Universal Articulating Arm Bracket, (1) Slotted Side Arm, (1) Bolster Plate, Accessory Bag

6 Inch Arm Kit	BSM2-K-A351-T06-BOL
12 Inch Arm Kit	BSM2-K-A351-T12-BOL
24 Inch Arm Kit	BSM2-K-A351-T24-BOL
36 Inch Arm Kit	BSM2-K-A351-T36-BOL
44 Inch Arm Kit	BSM2-K-A351-T44-BOL



Dual with Bolster Plates

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, (2) Bolster Plates, Accessory Bag

6 Inch Arm Kit	BSM2-K-A352-T06-BOL
12 Inch Arm Kit	BSM2-K-A352-T12-BOL
24 Inch Arm Kit	BSM2-K-A352-T24-BOL
36 Inch Arm Kit	BSM2-K-A352-T36-BOL
44 Inch Arm Kit	BSM2-K-A352-T44-BOL

Optional Pole Mounts - For Use with Bolster Plate (s)



2 Inch Pole Kit
BSM2-K-A200-POL-EM0



1.25 Inch Pole Kit
BSM2-K-A125-POL-EM0



Standard Series Accessory Guide

Universal Pole Kits



Dual with NATO Side Mounts

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, (2) NATO Side Mounts, Accessory Bag

6 Inch Arm Kit	BSM2-K-A352-T06-NTO
12 Inch Arm Kit	BSM2-K-A352-T12-NTO
24 Inch Arm Kit	BSM2-K-A352-T24-NTO
36 Inch Arm Kit	BSM2-K-A352-T36-NTO
44 Inch Arm Kit	BSM2-K-A352-T44-NTO



Dual with COM201B/OE254 Side Mounts

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, (2) COM201B/OE254 Side Mounts, Accessory Bag

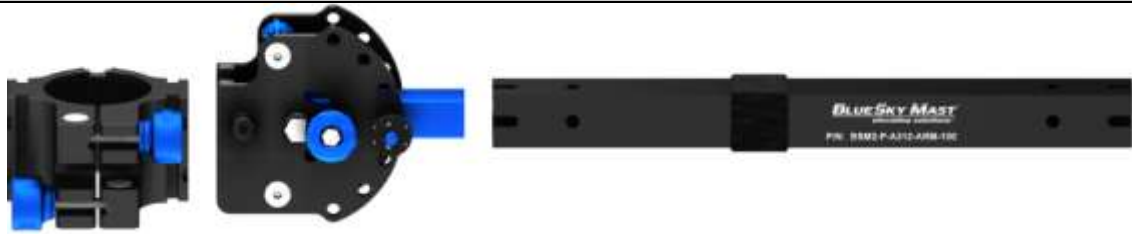
44 Inch Arm Kit	BSM2-K-A352-T44-OE2
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Dual Com201B Pole Mount Kit
with COM201B Antennas

Standard Series Accessory Guide

Universal Pole Kits



Single (NO SIDE MOUNT)

(1) Universal Pole Mount Dual Sided, (1) Universal Articulating Arm Bracket, (1) Slotted Side Arm, Accessory Bag

6 Inch Arm Kit	BSM2-K-A351-T06-100
12 Inch Arm Kit	BSM2-K-A351-T12-100
24 Inch Arm Kit	BSM2-K-A351-T24-100
36 Inch Arm Kit	BSM2-K-A351-T36-100
44 Inch Arm Kit	BSM2-K-A351-T44-100

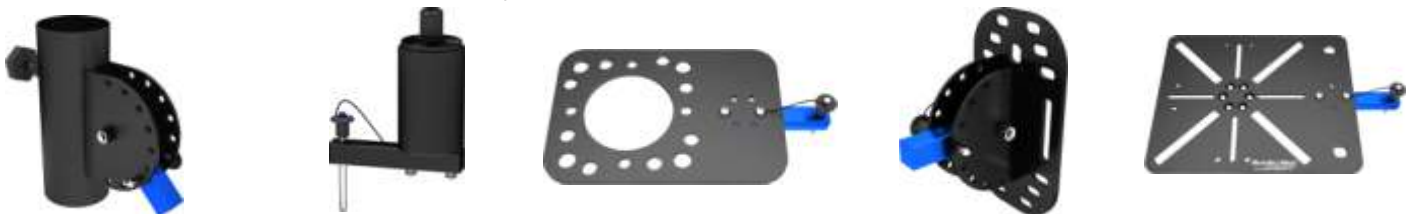


Dual (NO SIDE MOUNTS)

(1) Universal Pole Mount Dual Sided, (2) Universal Articulating Arm Brackets, (2) Slotted Side Arms, Accessory Bag

6 Inch Arm Kit	BSM2-K-A352-T06-100
12 Inch Arm Kit	BSM2-K-A352-T12-100
24 Inch Arm Kit	BSM2-K-A352-T24-100
36 Inch Arm Kit	BSM2-K-A352-T36-100
44 Inch Arm Kit	BSM2-K-A352-T44-100

Optional Side Mounts



Adjustable Cup Holder
BSM2-P-A100-CUP-EMO

COM201B/OE254
BSM2-K-M400-OE2-EMO

NATO Side Mount
BSM2-P-M305-NT0-EMO

Bolster Plate
BSM2-P-A101-BOL-EMO

Cross Pattern Side Mount
BSM2-A-M408-MPP-EMO

Standard Series Accessory Guide

Universal Side Mounts

Side Mount connects to the end of Slotted Side Arm

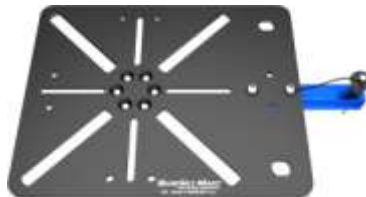


Bolster Plate
BSM2-P-A101-BOL-EM0

COM201B/OE254 Side Mount
BSM2-K-M400-OE2-EM0

Adjustable Cup Holder
BSM2-P-A100-CUP-EM0

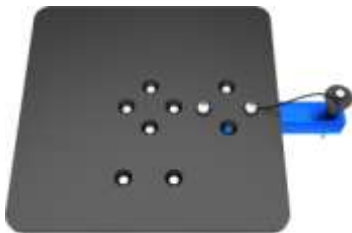
Plates with Side Mounts (more available online)



NATO Side Mount
BSM2-A-M305-NTO-EM0

Cross Pattern Side Mount
BSM2-A-M408-MPP-EM0

Cisco Side Mount
BSM2-A-M410-CSC-EM0



7.5 x 7.5 Side Mount
BSM2-A-M407-MPP-EM0

11 x 11 Side Mount
BSM2-A-M411-MPP-EM0

2 Inch Pole Kit BSM2-K-A200-POL-EM0
1.25 Inch Pole Kit BSM2-K-A125-POL-EM0

Standard Series Accessory Guide

Specialty Items

Mechanical Lift Kit (AL2 Only) BSM2-K-L100-LFT-000



Small Lift Kit Winch



Lift Kit Base Plate



Winch Handle



Upper / Lower Winch Mounts



Anti Rotation Turn Knobs



Ball Stop Holder

Specialty Items



Tilt Assembly
BSM2-K-M550-PIN-000



HF Pulley Kit
BSM2-K-P500-PUL-000



Lift Handles
BSM2-P-Y702-GRP-000



Rotational Tilt Plate - Single Swivel
BSM2-A-M611-TLT-000



Pin On Bracket
BSM2-P-M500-PIN-000



Motorola PTP Mounting Kit
BSM2-K-M415-MOT-000

Standard Series Accessory Guide

Grounding



Grounding Bracket



25 Ft. Stainless Steel Cable w/ Stakes



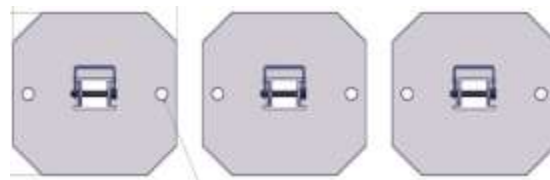
Grounding Accessory Bag



Lightning Air Terminal

Surface Wire Grounding Kit	BST2-K-L104-GND-000
(1) Grounding Bracket, (3) 25 Ft. Stainless Steel Cable Sets with Stakes, (1) Grounding Accessory Bag	
Lightning Air Terminal	BST2-B-P300-BAG-GND
(1) 3 Ft Aluminum Air Terminal, (2) ECLE Clamps with U-Bolts	
Grounding Bracket	BST2-P-B205-GND-000
25 Ft. Stainless Steel Cable w/ Stakes	BST2-P-C225-GND-000
Grounding Accessory Bag	BST2-B-P300-BAG-GND

Rooftop Supports and Base Plates



Urban Base Plate Kit
BSM2-K-T711-BSP-ALM



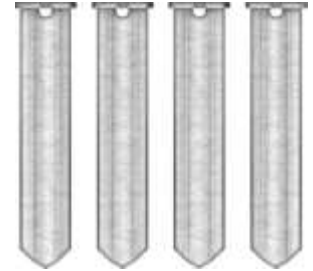
Telescoping Tripod Struts
BSM2-K-T712-BSP-STR

Standard Series Accessory Guide

Primary Guy Kits

(1) Primary Guy Ring, (4) Black Guy Ropes, (4) Guy Stakes, Accessory Bag

2 Meter	BSM2-K-G602-PRI-BLK
3 Meter	BSM2-K-G603-PRI-BLK
4 Meter	BSM2-K-G604-PRI-BLK
5 Meter	BSM2-K-G605-PRI-BLK
6 Meter	BSM2-K-G606-PRI-BLK
7 Meter	BSM2-K-G607-PRI-BLK
8 Meter	BSM2-K-G608-PRI-BLK
9 Meter	BSM2-K-G609-PRI-BLK
10 Meter	BSM2-K-G610-PRI-BLK
11 Meter	BSM2-K-G611-PRI-BLK
12 Meter	BSM2-K-G612-PRI-BLK
13 Meter	BSM2-K-G613-PRI-BLK
14 Meter	BSM2-K-G614-PRI-BLK
15 Meter	BSM2-K-G615-PRI-BLK



Guy Ropes (Black)
(Part # based on length)

Galvanized Steel Stakes
BSM2-P-G700-STA-000

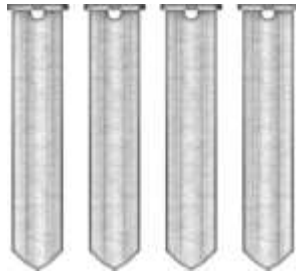


Pin On Guy Ring
BSM2-A-M100-RNG-PNO

Black Stake Bag

Secondary Guy Kits

(1) Secondary Guy Ring "Compression", (4) Grey Guy Ropes, (4) Guy Stakes, Accessory Bag



Guy Ropes (Grey)
(Part # based on length)

Galvanized Steel Stakes
BSM2-P-G700-STA-000



Compression Guy Ring
BSM2-A-M100-RNG-CMO

Grey Stake Bag

2 Meter	BSM2-K-G602-2ND-GRY
3 Meter	BSM2-K-G603-2ND-GRY
4 Meter	BSM2-K-G604-2ND-GRY
5 Meter	BSM2-K-G605-2ND-GRY
6 Meter	BSM2-K-G606-2ND-GRY
7 Meter	BSM2-K-G607-2ND-GRY
8 Meter	BSM2-K-G608-2ND-GRY
9 Meter	BSM2-K-G609-2ND-GRY
10 Meter	BSM2-K-G610-2ND-GRY
11 Meter	BSM2-K-G611-2ND-GRY
12 Meter	BSM2-K-G612-2ND-GRY
13 Meter	BSM2-K-G613-2ND-GRY
14 Meter	BSM2-K-G614-2ND-GRY
15 Meter	BSM2-K-G615-2ND-GRY



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