

## EXHIBIT A - PRICING PAGE

WV Division of Natural Resources - Wildlife Resources Section

### Mast Tower Kit - REBID

Item No.	Description	Make & Model	Qty	Unit	Unit Cost*	Extended Cost
3.1.1	Mast Tower Kit	Bluesky Mast Systems 350G XL	6	ea.	\$13,000.00	\$78,000.00
<b>TOTAL BID</b>						<b>\$78,000.00</b>

\*Unit Cost MUST include delivery to EOC (i.e. shipping or freight can't be listed separately). See specifications sheet for additional requirements and preferences for telescoping mast tower kit.

Shipping Location:  
 Elkins Operation Center (EOC)  
 738 Ward Road  
 Elkins, WV 26241

Dustin Legg

Vendor Authorized Representative (Print Name)



Vendor Authorized Representative Signature

11/16/2023  
Date

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Dustin / Vice President / BPI, Inc.

(Name, Title)

Dustin Legg / Vice President / BPI, Inc.

(Printed Name and Title)

102 Wimpleton Drive, Hurricane, WV 25526

(Address)

(304) 760-8909 ext 200

(Phone Number) / (Fax Number)

dlegg@bpi-gc.com

(Email Address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

BPI, Inc.

(Company)

 Dustin Legg VP

(Authorized Signature) (Representative Name, Title)

Dustin / Vice President / BPI, Inc.

(Printed Name and Title of Authorized Representative)

11/16/2023

(Date)

(304) 760-8909 ext 200

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA  
Purchasing Division  
**PURCHASING AFFIDAVIT**

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL CONTRACTS:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

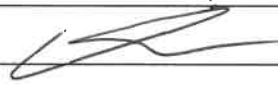
**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: BPI, Inc.

Authorized Signature:  Date: 11/16/2023

State of West Virginia

County of Putnam, to-wit:

Taken, subscribed, and sworn to before me this 16th day of November, 2023.

My Commission expires March 13<sup>th</sup>, 2028.

**AFFIX SEAL HERE**

**NOTARY PUBLIC** 





Test Report No. PR019878

www.nts.com

National Technical Systems  
1701 E. Plano Pkwy. Suite 150  
Plano, TX 75074

Main: 972-509-2560  
Fax: 972-509-0073

Date: 03/12/2013

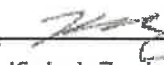
Customer:  
BlueSky Mast Inc.  
1515 Gunn Hwy.  
Odessa, FL 33556

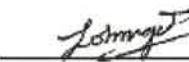
Purchase Order Number: COD

- A. TESTS: High Temperature, Low Temperature, Humidity, Salt Fog,  
Sand and Dust, Icing & Freezing Rain
- B. TEST ITEM: Mast Assembly
- C. SPECIFICATION: 1. MIL-STD 810G
- D. RESULTS:  
This is to certify that the Mast Assembly was subjected to the High Temperature, Low Temperature, Humidity, Salt Fog, Sand and Dust, Icing & Freezing Rain tests according to the above specification.

See Page 4 for Summary of Test Results. The Mast Assembly was returned to BlueSky Mast for final evaluation.

Test data, an equipment list, and photographs are attached.

  
Kimberly Zavala  
Préparer

  
John Ngo  
Program Manager

  
Kimberly Zavala  
Quality Assurance  
Manager

This report and the information contained herein represent the results of testing test articles identified and selected by the client performed to specifications and/or procedures selected by the client. National Technical Systems (NTS) makes no representation, expressed or implied, that such testing is adequate (or inadequate) to demonstrate efficiency, performance, reliability, or any other characteristics of the articles being tested, or similar products. This report should not be relied upon as an endorsement or certification by NTS of the equipment tested, nor does it represent any statement whatsoever as to its merchantability or fitness of the test article, or similar products, for a particular purpose. This report shall not be reproduced except in full.



**SUMMARY OF TEST RESULTS**

The test program consisted of subjecting the Mast Assembly to testing described in this report. The test results are tabulated in the test summary below.

Test	Test Specification	Conforms	Test Location	Date
Low Temperature	MIL-STD 810G Method 501.4 Procedure I	Yes	NTS Plano	02/18/2013- 02/19/2013
High Temperature	MIL-STD 810G Method 502.4 Procedure I	Yes	NTS Plano	02/15/2013- 02/16/2013
Humidity	MIL-STD 810G Method 507.4 Procedure I	Yes	NTS Plano	02/20/2013- 02/21/2013
Salt Fog	MIL-STD 810G Method 509.4 Procedure I	Yes	NTS Plano	03/03/2013- 03/06/2013
Dust	MIL-STD 810G Method 510.4 Procedure I A	Yes	NTS Plano	02/26/2013
High Temperature Dust	MIL-STD 810G Method 510.4 Procedure I B	Yes	NTS Plano	02/27/2013
Sand	MIL-STD 810G Method 510.4 Procedure II	Yes	NTS Plano	02/28/2013
Icing Freezing Rain	MIL-STD 810G Method 521.3	Yes	NTS Plano	03/06/2013- 03/08/2013



**HIGH TEMPERATURE TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mask Inc.	<b>MJO:</b>	PRD19878
<b>TEST ITEM:</b>	Mast Assy	<b>DATE:</b>	2/15/13
<b>MODEL NUMBER:</b>	BSME/BSMD	<b>UNIT NO. ENVI</b>	
<b>SPECIFICATION:</b>	MIL-STD-883C	<b>CHAMBER NO:</b>	16
<b>METHOD:</b>	301.4, Procedure: I	<b>TECH / ENGR:</b>	BNFB

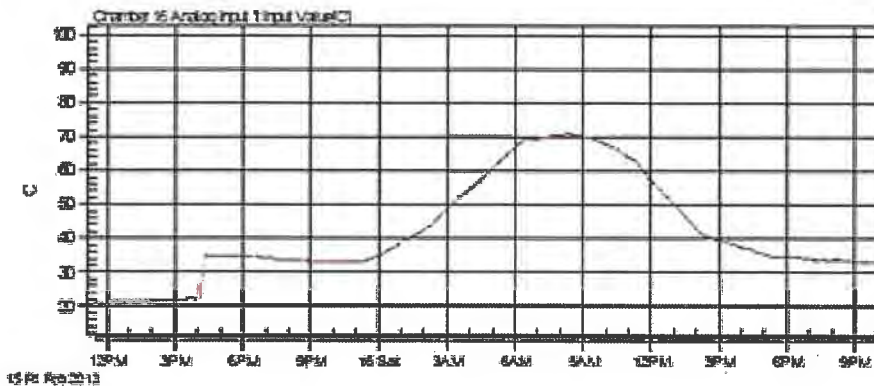
  

DESCRIPTION OF TEST				
DATE:	TIME:	LOG ENTRY:	EUT Operate	TECH/ENGR INITIALS:
2/15/13	1500	Begin set up for Cyclic High Temperature Test	N/A	BNFB
	1520	EUT installed in chamber, photograph taken		BNFB
	1545	Begin test		BNFB
	1600	From ambient conditions ramp chamber to 35°C		BNFB
	1700	Chamber at conditions ramp to 34°C		BNFB
	1900	Chamber at conditions ramp to 33°C		BNFB
	2200	Chamber at conditions ramp to 36°C		BNFB
	2500	Chamber at conditions ramp to 40°C		BNFB
2/16/13	0000	Chamber at conditions ramp to 44°C		BNFB
	0100	Chamber at conditions ramp to 51°C		BNFB
	0200	Chamber at conditions ramp to 56°C		BNFB
	0300	Chamber at conditions ramp to 63°C		BNFB
	0400	Chamber at conditions ramp to 66°C		BNFB
	0800	Chamber at conditions ramp to 70°C		BNFB
	0900	Chamber at conditions ramp to 67°C		BNFB
	1000	Chamber at conditions ramp to 63°C		BNFB
	1100	Chamber at conditions ramp to 55°C		BNFB
	1200	Chamber at conditions ramp to 48°C		BNFB
	1300	Chamber at conditions ramp to 41°C		BNFB
	1400	Chamber at conditions ramp to 39°C		BNFB
	1500	Chamber at conditions ramp to 37°C		BNFB
	1600	Chamber at conditions ramp to 35°C		BNFB
	1630	Test complete no anomalies noted		BNFB
		Unit conforms		BNFB

<b>TECHNICIAN / ENGINEER:</b>	B Newingham/F Boyd	<b>DATE:</b>	2/16/13
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**Bluesky Mast**  
High Temperature





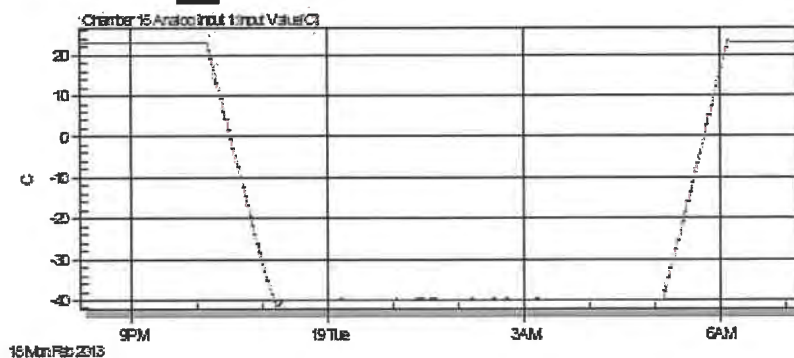
**HIGH TEMPERATURE TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1132-P	Thermocon	Temp/RH Chamber	WP802	N/A	N/A
ENV-1131-P	Wairow	Over/Temp Protection	SD6L	N/A	N/A
ENV-1060-P	Wairow	Temp Humidity Controller	F-4	10/05/12	10/05/13
ENV-1270-P	Vaisala	Humidity Probe	HMT 120	06/26/12	06/26/13

**LOW TEMPERATURE TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mask Inc.	<b>AJFO:</b>	PR019878
<b>TEST ITEM:</b>	Mast Assy	<b>DATE:</b>	2/18/13
<b>MODEL NUMBER:</b>	B5M3/B5M2	<b>UNIT NO:</b>	ENV1
<b>SPECIFICATION:</b>	MIL-STD 883G	<b>CHAMBER NO:</b>	16
<b>METHOD:</b>	501.4, Procedure I	<b>TECH / ENGR:</b>	BNFB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate TECH/ENGR INITIALS:
2/18/13	1500	Begin set up for Low Temperature	N/A BNFB
	1600	EUT is stalled in chamber, photograph taken	BNFB
	2130	Begin test	BNFB
	2200	From ambient conditions ramp chamber to -40°C	BNFB
	2300	Ramp complete chamber at conditions soak for 6 hours	BNFB
2/19/13	0500	Soak complete return chamber to ambient temperature	BNFB
	0600	chamber at conditions test complete	BNFB
		No visual anomalies or damage noted	BNFB
		Unit conforms	
<b>TECHNICIAN/ ENGINEER:</b>		B Newstead/F Boyd	<b>DATE:</b> 2/19/13

Bluesky Mast PR019878  
Low Temperature



**LOW TEMPERATURE TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1132-P	Thermocon	Temp/RH Chamber	WP802	N/A	N/A
ENV-1131-P	Wairow	Over/Temp Protection	SD6L	N/A	N/A
ENV-1060-P	Wairow	Temp Humidity Controller	F-4	10/05/12	10/05/13
ENV-1270-P	Vaisala	Humidity Probe	HMT 120	06/26/12	06/26/13



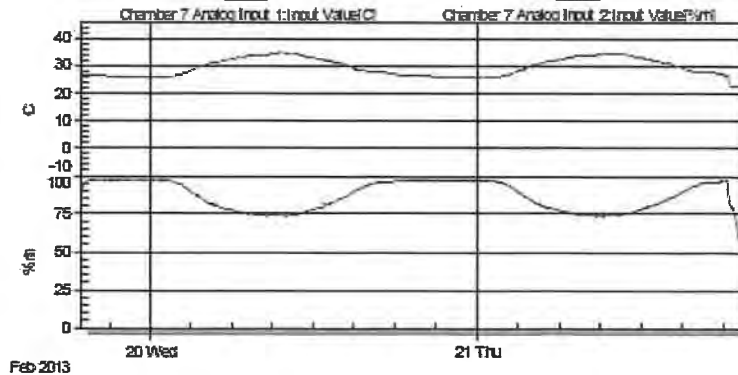


**HUMIDITY TEST DATA**

CUSTOMER:	Blue Sky	AJO:	PR019878
TEST ITEM:	Mast Assy	DATE:	2/20/13
MODEL NUMBER:	B5M3/B5M2	UNIT NO:	ENV1
SPECIFICATION:	MIL-Std 816G	CHAMBER NO:	7
METHOD:	307.4 Pro 1	TECH / ENGR:	BNFB

DESCRIPTION OF TEST				
DATE:	TIME:	LOG ENTRY:	EUT Operate	TECH/ENGR INITIALS:
2/20/13	1630	Begin set up for Humidity	NA	BNFB
	1615	EUT in stalled in chamber, photograph taken		BNFB
	1630	Begin test		BNFB
	1700	Ramp to 27°C at 100% humidity		BNFB
	1720	Chamber at conditions soak for 1 hour		BNFB
	1820	Soak complete		BNFB
	1820	Ramp to 26°C at 100% humidity		BNFB
	1940	Chamber at conditions soak for 4 hours		BNFB
2/21/13	0117	Soak complete Ramp to 27°C at 94% humidity		BNFB
	0220	Chamber at conditions ramp to 29°C at 88% humidity		BNFB
	0320	Chamber at conditions ramp to 31°C at 82% humidity		BNFB
	0420	Chamber at conditions ramp to 32°C at 76% humidity		BNFB
	0520	Chamber at conditions ramp to 33°C at 77% humidity		BNFB
	0620	Chamber at conditions ramp to 34°C at 75% humidity		BNFB
	0720	Chamber at conditions ramp to 34°C at 74% humidity		BNFB
	0820	Chamber at conditions ramp to 35°C at 74% humidity		BNFB
	0915	Chamber at conditions soak for 1 hour		BNFB
	1015	Soak complete Ramp to 34°C at 76% humidity		BNFB
	1115	Chamber at conditions ramp to 33°C at 78% humidity		BNFB
	1215	Chamber at conditions ramp to 32°C at 82% humidity		BNFB
	1315	Chamber at conditions ramp to 31°C at 86% humidity		BNFB
	1415	Chamber at conditions ramp to 29°C at 91% humidity		BNFB
	1515	Chamber at conditions ramp to 28°C at 95% humidity		BNFB
	1615	Chamber at conditions ramp to 28°C at 96% humidity		BNFB
	1715	Chamber at conditions ramp to 27°C at 100% humidity		BNFB
	1815	Chamber at conditions soak for 1 hour		BNFB
	1915	Soak complete cycle 1 complete		BNFB
2/21/13	1815	Cycle 2 complete		BNFB
		Test complete return chamber to ambient conditions		BNFB
		No physical damage or anomalies noted from conforms.		
TECHNICIAN / ENGINEER:		B Newsham/F Boyd	DATE:	2/21/13

PR019878 Bluesky Mast  
Humidity







**HUMIDITY TEST EQUIPMENT LIST**

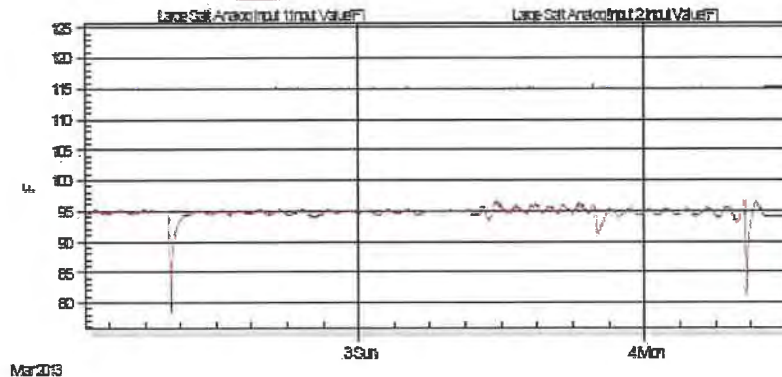
NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1046-P	Envirotronic	Temp/Humidity Chamber	EH-64-2-5	N/A	N/A
ENV-1067-P	Omega	Oven/Temp Protection	CN76133	N/A	N/A
ENV-1025-P	Wahrow	Temp/Humidity Controller	F-4	12/10/12	12/10/13
ENV-1187-P	Viassala	Humidity Probe	HMT-100	10/22/12	10/22/13

**SALT FOG TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mask Inc.	<b>MJO:</b>	PR019878				
<b>TEST ITEM:</b>	Mask Assy	<b>DATE:</b>	3/3/13				
<b>MODEL NUMBER:</b>	BSM1/BSM2	<b>UNIT NO:</b>	ENV1				
<b>SPECIFICATION:</b>	MIL-STD 883F	<b>CHAMBER NO:</b>	Large Sub				
<b>METHOD:</b>	508.4 Procedure 1	<b>TECH/ENGR:</b>	BN/FB				
<b>Type of Salt:</b>	Food grade	<b>Type of Water:</b>	Type 4 De-ionized				
<b>Salt Concentration:</b>	5%	<b>Water Conductivity:</b>	<3µS/cm				
Readings Below to be Monitored Daily							
<b>DATE:</b>	<b>TIME:</b>	<b>Temp 35C (+/-2C)</b>	<b>Fallout Rate 1.0 to 3.0 mL/hour</b>	<b>Ph 6.5 to 7.3 of Collection</b>	<b>Specific Gravity of Collection 1.025 - 1.045</b>	<b>Day: in Test</b>	<b>TECH / ENGR:</b>
3/3/2013	1530	34°C	1.8 mL/hour	6.6 Ph	1.035	1	BN/FB
3/4/2013	1530	35°C	1.9 mL/hour	6.8 Ph	1.035	2	BN/FB
<b>DESCRIPTION OF TEST</b>							
<b>DATE:</b>	<b>TIME:</b>	<b>LOG ENTRY:</b>				<b>EUT Operator:</b>	<b>TECH / ENGR:</b>
3/2/13	0800	Begin test set up for Salt Fog				N/A	BN/FB
	0810	EUT installed in chamber photograph taken					BN/FB
	0815	Operation verified begin test					BN/FB
	0820	Condition chamber to 35°C for 2 hours before introducing salt					BN/FB
	1020	2 hour condensation complete vented substrate Diffusion rate of 2.2 mL/90cm <sup>2</sup> /hr					BN/FB
	1025	Continue salt fog for an additional 48 hours					BN/FB
3/4/13	1025	48 hours complete remove EUT from chamber and allow 48 hour drying period					BN/FB
3/6/13	1025	48 hour drying period complete					BN/FB
	1030	Test complete operation verified no excessive salt damage noted, moves freely					BN/FB
		Unit conforms					
<b>TECHNICIAN / ENGINEER:</b>		B Newingham/E Bevd		<b>DATE:</b>		3/6/2013	

**BlueSky Mast PR019878**

Salt Fog

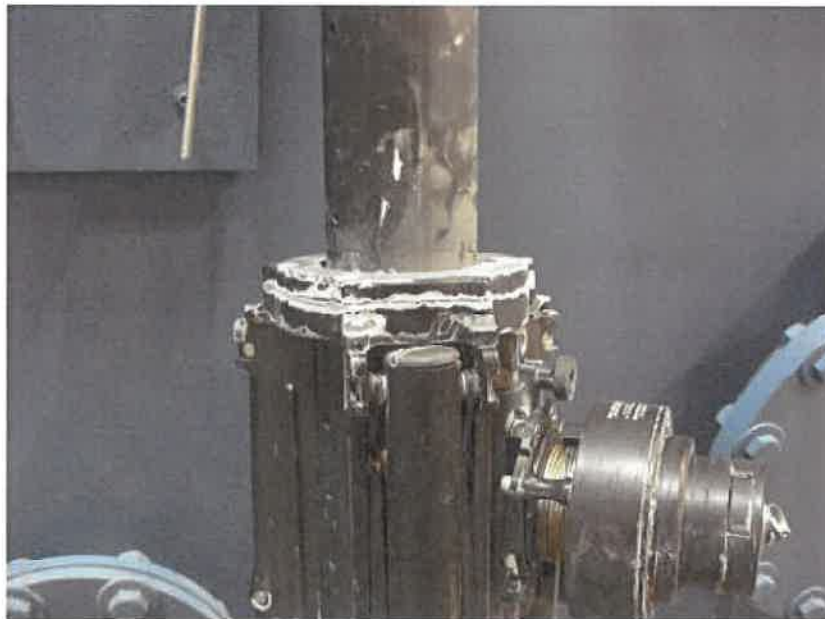


**SALT FOG TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1218-P	NTS	Salt-Fog Chamber	Large	N/A	N/A
ENV-1128-P	Wairow	Temperature Controller	P4	10/5/2012	10/5/2013
ENV-1219-P	Omega	Hi/Low Limit	CN76000	N/A	N/A



**SALT FOG TEST SETUP**



**SALT FOG POST TEST**



SALT FOG POST TEST



SALT FOG POST TEST



SALT FOG POST TEST – AFTER 48 HOUR DRYING PERIOD/CLEANING



SALT FOG POST TEST – AFTER 48 HOUR DRYING PERIOD/CLEANING



SALT FOG POST TEST – AFTER 48 HOUR DRYING PERIOD/CLEANING





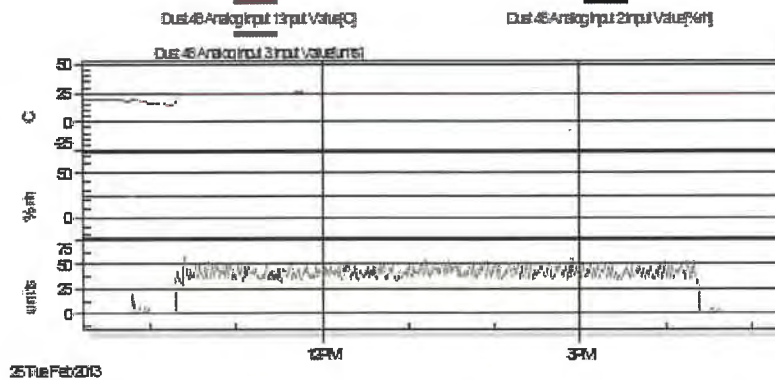
**DUST TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mask Inc.	<b>MJO:</b>	PR019878
<b>TEST ITEM:</b>	Mast Assy	<b>DATE:</b>	2/26/13
<b>MODEL NUMBER:</b>	NA	<b>UNIT NO:</b>	ENVI
<b>SPECIFICATION:</b>	MIL-STD 810G	<b>CHAMBER NO:</b>	Dust 48
<b>METHOD:</b>	510.4, Procedure: 1A	<b>TECH/ENGR:</b>	BN/FB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate TECH/ENGR INITIALS:
2/26/13	0930	Begin test set up for Ambient Dust	BN/FB
	0945	Dust rate set at 10.6 +/- 7 grams per cubic meter	
	1000	Installed EUT in dust chamber.	BN/FB
	1005	Ease of operation of all moving parts verified	x BN/FB
	1010	Took photo of test set up.	BN/FB
	1015	Begin test wind speed at 9.7 m/s	BN/FB
	1030	Chamber temperature stable 25°C Begin 6 hour blowing dust.	BN/FB
		Relative humidity below 30%	BN/FB
	1620	5 hour blowing dust complete. Stop dust feed.	BN/FB
	1625	Test item stable at ambient temperature.	BN/FB
	1630	Removed excess dust from unit with soft bristle brush	BN/FB
	1632	Performed ease of operation of all moving parts verified	x BN/FB
		No anomalies noted unit conforms	BN/FB
		Dust used was Red China Clay	
<b>TECHNICIAN / ENGINEER</b>		B Newingham/F Boyd	<b>DATE:</b> 2/26/13

**DUST TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1235-P	NTS	Dust/Sand Chamber	NTS	N/A	N/A
ENV-1340-P	Alnor	Hot wire Anemometer	AVM 430	07/24/12	07/24/13
ENV-1254-P	Omega	Hi-Lo Limit	CN76000	N/A	N/A
ENV-1253-P	Watlow	Temp Controller	F4	12/10/12	12/10/13
ENV-1234-P	Visalla	Humidity Probe	HMT 100	05/25/12	05/25/13

**PR019878 BlueSky Mast  
Ambient Dust**

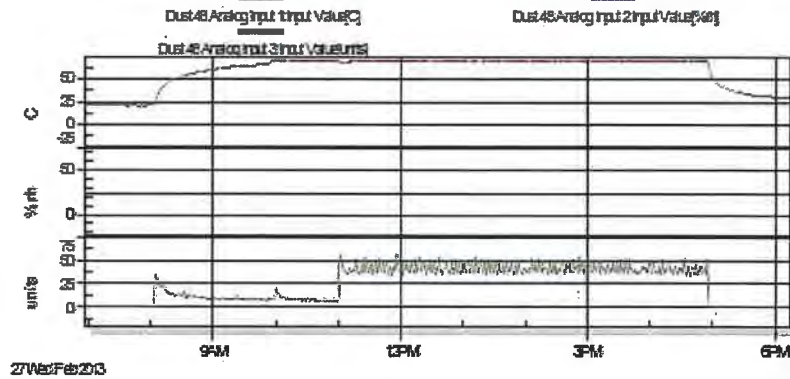




**HIGH TEMPERATURE DUST TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mask Inc.	<b>MJO:</b>	PR019878
<b>TEST ITEM:</b>	Mask Assy	<b>DATE:</b>	2/27/13
<b>MODEL NUMBER:</b>	NA	<b>UNIT NO:</b>	ENV1
<b>SPECIFICATION:</b>	MIL-STD 810G	<b>CHAMBER NO:</b>	Dust 48
<b>METHOD:</b>	310.4, Procedure: 1 B	<b>TECH / ENGR:</b>	EN/FB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG ENTRY:	EUT Operate
2/27/13	0809	Begin test set up for High Temperature Dust	
	0810	Installed EUT in dust chamber.	
		Dust rate set at 10.6±0.7 grains per cubic meter	
	0811	Ease of operation of all moving parts verified	x
	0815	Took photo of test set up.	
	0815	Begin test ramp chamber to 70°C wind speed at 1.5m/s	
	1055	Chamber temperature stable 70°C Begin 6 hour blowing dust.	
		wind speed at 8.5m/s Relative Humidity below 30%	
	1655	6 hour blowing dust complete. Stop dust feed. Return to ambient	
	1710	Test item stable at ambient temperature	
	1712	Removed excess dust from unit with soft bristle brush	
	1715	Performed ease of operation of all moving parts verified	x
		No anomalies noted unit conforms	
		Dust used was Red China Clay	
<b>TECHNICIAN / ENGINEER</b>		B Newingham / F Boyd	<b>DATE:</b> 2/27/13

PR019878 BlueSky Mast  
High Temperature Dust



**HIGH TEMPERATURE DUST TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1235-P	NTS	Dust Sand Chamber	NTS	N/A	N/A
ENV1340P	Alnor	Eot wire Anemometer	AVN1450	07/24/12	07/24/13
ENV-1254-P	Omsea	Hi/Lo Limit	CN76000	N/A	N/A
ENV-1253-P	Watlow	Temp Controller	F4	12/10/12	12/10/13
ENV-1234-P	Viasalla	Humidity Probe	HMT 100	05/25/12	05/25/13





**HIGH TEMPERATURE DUST TEST SETUP**



**HIGH TEMPERATURE DUST POST TEST**

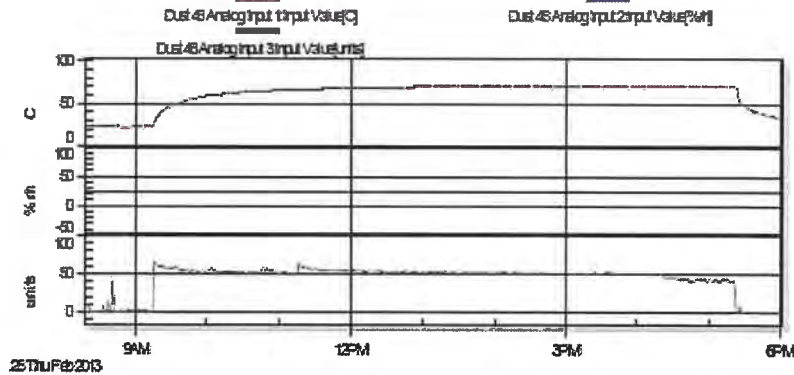


Test Report No. PR019878

**SAND TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mask Inc.	<b>MJO:</b>	PR019878
<b>TEST ITEM:</b>	Mast Assy	<b>DATE:</b>	2/28/13
<b>MODEL NUMBER:</b>	NA	<b>UNIT NO:</b>	ENV 1
<b>SPECIFICATION:</b>	ML-STD 810G	<b>CHAMBER NO:</b>	Sand 4S
<b>METHOD:</b>	310.4, Procedure: II	<b>TECH / ENGR:</b>	BN/FB
DESCRIPTION OF TEST			
DATE:	TIME:	LOG-ENTRY:	TECH/ENGR INITIALS:
2/28/13	0750	Chamber controls set at 2.1 grams sand per cubic meter	BN/FB
		wind speed set at 20m/s	BN/FB
	0830	Begin test set up for High Temperature Sand	BN/FB
	0830	Installed EUT in sand chamber.	BN/FB
	0840	Ease of operation of all moving parts verified	x BN/FB
	0845	Took photo of test set up.	BN/FB
	0925	Begin test ramp chamber to 70°C	BN/FB
	1125	Chamber temperature stable 70°C Begin 6 hour blowing sand.	BN/FB
		Relative humidity below 30%	BN/FB
	1725	6 hour blowing sand complete. Stop sand feed. Return to ambient	BN/FB
	1740	Test items stable at ambient temperature.	BN/FB
	1742	Removed excess sand from unit with soft bristle brush	BN/FB
	1745	Performed ease of operation of all moving parts verified	x BN/FB
		No anomalies noted unit conforms	
<b>TECHNICIAN / ENGINEER</b>		B Newingham/F Boyd	<b>DATE:</b> 2/28/13

**PR019878 Blue Sky Mast**  
High Temperature Sand



**SAND TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1235-P	NTS	Dust/Sand Chamber	NTS	N/A	N/A
ENV1340P	Alnor	Hot wire Anemometer	AVM 430	07/24/12	07/24/13
ENV-1254-P	Omega	HE/Lo Limit	CN76000	N/A	N/A
ENV-1253-P	Watlow	Temp Controller	F4	12/10/12	12/10/13
ENV-1234-P	Vaisala	Humidity Probe	HMT 100	05/25/12	05/25/13



**SAND TEST SETUP**



**SAND POST TEST**

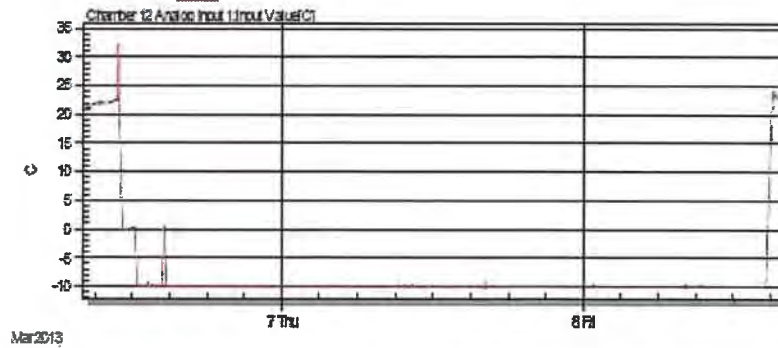


Test Report No. PR019878

**ICING AND FREEZING RAIN TEST DATA**

<b>CUSTOMER:</b>	BlueSky Mast Inc.	<b>MJO:</b>	PR019878
<b>TEST ITEM:</b>	Mast Assy	<b>DATE:</b>	3/6/13
<b>MODEL NUMBER:</b>	BSM3-BSM2	<b>UNIT NO:</b>	ENV1
<b>SPECIFICATION:</b>	MIL-STD 810G	<b>CHAMBER NO:</b>	11
<b>METHOD:</b>	521.3	<b>TECH / ENGR:</b>	BN/FB
<b>CRITERIA</b>			
<b>DESCRIPTION OF TEST</b>			
<b>DATE:</b>	<b>TIME:</b>	<b>LOG ENTRY:</b>	<b>EUT Operational</b> <b>TECH/ENGR INITIALS:</b>
3/6/13	1000	Begin test set up for Icing/Freezing Rain	BN/FB
	1015	Installed EUT in Chamber	BN/FB
	1030	Ease of operation of all moving parts verified	x    BN/FB
	1030	Begin test	BN/FB
	1133	Chamber temperature stabilized at 0°C start watering for 1 hour	BN/FB
	1213	1 Hour pre spraying complete adjust chamber to -10°C	BN/FB
	1222	Chamber at conditions, continue icing until .25" of ice has been achieved	BN/FB
3/8/13	1030	Ice at .25" stop icing at this time and allow ice to harden for 4 hours	BN/FB
	1430	4 Hour ice hardening complete, operational check attempt unsuccessful	BN/FB
		used small rubber tipped hammer to remove ice second attempt successful	x    BN/FB
	1440	Returns chamber to ambient conditions and allow for de thawing	BN/FB
	1506	Chamber at conditions EUT has been thawed	BN/FB
	1510	Operational check satisfactory	x    BN/FB
		Test complete	
<b>TECHNICIAN / ENGINEER:</b>		B Newingham F Boyd	<b>DATE:</b> 3/8/13

**BlueSky Mast PR019878**  
Icing/Freezing Rain



**ICING AND FREEZING RAIN TEST EQUIPMENT LIST**

NTS ID#	Manufacturer	Description	Model No.	Cal Date	Cal Due
ENV-1076-P	Russell	Temp/Humidity Chamber	ECM 3-30-30	N/A	N/A
ENV-1040-P	Omega	Over/Temp Protection	CN76133	N/A	N/A
ENV-1268-P	Watlow	Temp/Humidity Controller	F-4	10/05/12	10/05/13
ENV-1196-P	Vaisala	Humidity Probe	HMT 100	03/23/12	03/23/13





**ICING AND FREEZING RAIN TEST SETUP**



**ICING AND FREEZING RAIN – 0.25" OF ICE**

# USER MANUAL



SCHEDULE  
GS-07F-5916R

MADE IN THE U.S.A.



## 350G XL LIFT SERIES

*FAST MECHANICAL LIFT  
SYSTEM*

Rev 3  
Feb 2020

**BLUESKY MAST**  
*elevating solutions™*

WWW.BLUESKYMAST.COM | 877-411-MAST (6278)  
SALES@BLUESKYMAST.COM



## 350G XL Lift Series - Disclaimers and Warranties

### DISCLAIMER OF WARRANTIES AND LIABILITY

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

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

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

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

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

BUYER HAS READ THIS DISCLAIMER AND AGREES WITH ITS TERMS IN CONSIDERATION OF RECEIVING THE GOODS.

### **REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS**

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

BlueSky Mast Inc  
2080 Wild Acres Road  
Largo, FL 33771  
USA

Or

Phone: 877-411-6278  
Fax: 866-411-6278  
email: [support@blueskymast.com](mailto:support@blueskymast.com)

Cage Code: 3JWX5

DUNS Number: 137469404

## 350G XL Lift Series - Disclaimers and Warranties

### LIMITED TWELVE MONTH WARRANTY

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

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

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

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

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

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

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

## 350G XL Lift Series - Safety Warnings

### IMPORTANT SAFETY PRECAUTIONS

#### Part I: Power Lines, Lightning and Grounding

- **LOOK UP AND LIVE!** Before erecting the mast, check for overhead power lines. Never deploy this mast where there is any possibility of direct or indirect contact with a power line. Keep the mast a distance equal to or greater than twice its height away from power lines. This will ensure that the Antenna, masts, guy ropes or cables will not contact power if it falls either during installation or later. Any person touching any part of a mast or even standing near a mast that contacts a power line can be seriously injured or killed.
- **BEWARE OF UNDERGROUND POWER LINES!** Ground stakes might penetrate underground power lines. Before deploying any ground stakes, be sure to check the area for warnings of buried cables and contact your local power company to verify. Any person touching any part of a mast or even standing near a mast that contacts a power line can be seriously injured or killed.
- Keep guy ropes away from power lines to eliminate the possibility of a power line falling on the guy rope.
- Never touch a mast or structure that you suspect may be accidentally energized electrically.
- Never work with a mast or related structure during electrical storm activity.
- Contrary to popular belief, most lightning injuries and damage do not come from direct lightning strikes. There are several ways that lightning can injure you:
- “Step Potential” is potentially hazardous voltage that can exist on the ground like stepping on a live wire. This results from electrical energy diverted into the ground from lightning striking nearby. It is the most common injury causing lightning effect.
- Flashover is when lightning strikes a nearby object and then jumps to another nearby object. This is usually what injures people standing under trees in an electrical storm.
- Do not stand near the mast, deploy or retract the mast during electrical storm activity.
- Always ground the mast.

## 350G XL Lift Series - Safety Warnings

### IMPORTANT SAFETY PRECAUTIONS

#### Part II: Guy Ropes and Fasteners

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

## 350G XL Lift Series - Safety Warnings

### IMPORTANT SAFETY PRECAUTIONS

#### Part III: Wind Conditions

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

USE THE CHART BELOW TO HELP DETERMINE WIND SPEED

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

## 350G XL Lift Series - Loading and Guying Tutorial

### Deployable Payload

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

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

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

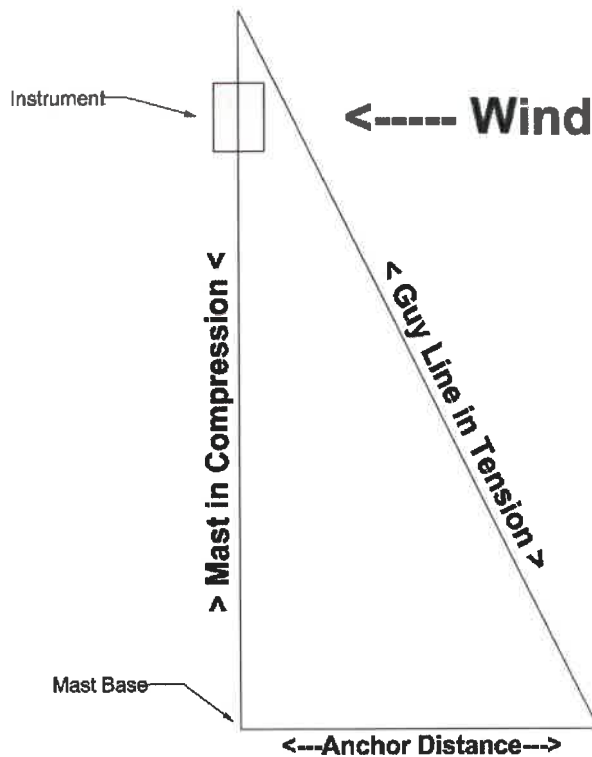


## 350G XL Lift Series - Loading and Guying Tutorial

### Wind Effects

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

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



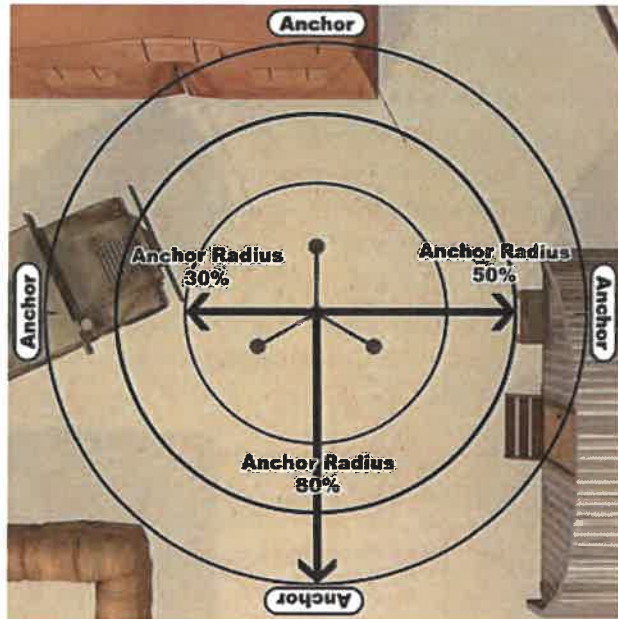
### Guying

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

350G XL Lift Series - Loading and Guying Tutorial

**Anchor Radius**

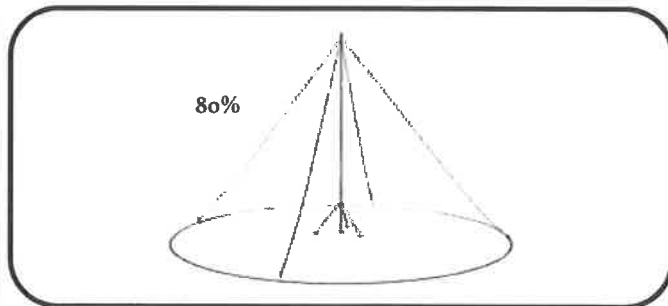
Ideal guying is set with an anchor radius of 80% of the total mast height. Many applications of mast deployments are not able to afford an installation footprint of this size and installers may find it more convenient to place the guy anchors much closer to the mast as shown in the figure to the right.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



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

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

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



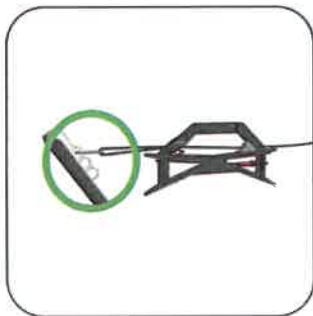
## 350G XL Lift Series - Loading and Guying Tutorial

### Primary and Secondary Guy Placement

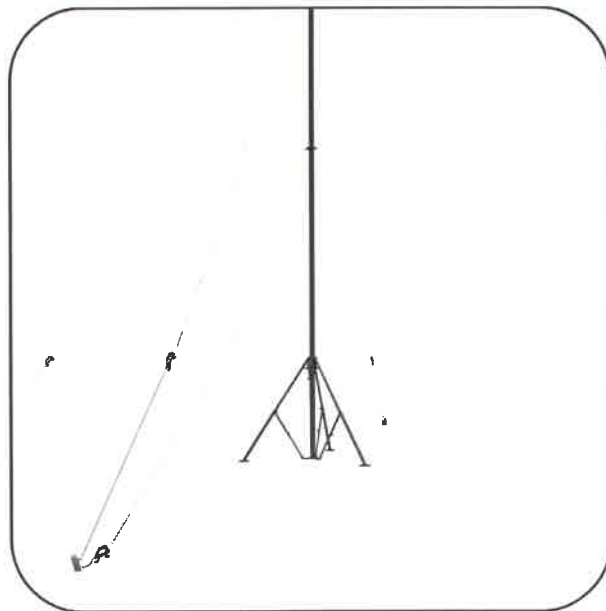
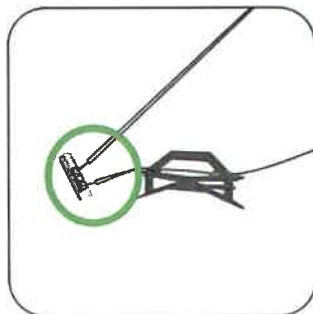
BlueSky utilizes a 4 guy configuration with a guying distance of 80% the total height of the mast to help minimize the affect wind loading has on the mast. The primary guys are always deployed from the top of the mast and extend out at a 90 degree angle from each other. Primary guy ropes are attached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

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

#### Primary Guy Placement (Top Hole of Large Guy Stake)



#### Secondary Guy Placement (Bottom Hole of Large Guy Stake)



### Guying Distance From the Base of the Mast

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

350G XL Lift Series - Load Tables

15 Meter System - Specifications

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

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

14 Meter System - Specifications

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

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

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



350G XL Lift Series - Load Tables

13 Meter System - Specifications

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

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

12 Meter System - Specifications

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

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

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

350G XL Lift Series - Load Tables

**11 Meter System - Specifications**

Fully Operational		Survivable	Mast Failure	
<b>11 Meter 350G Mast</b>				
<b>Primary Guying Only</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>115 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
<b>11 Meter 350G Mast</b>				
<b>Primary &amp; Secondary Guying</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>115 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

**10 Meter System - Specifications**

Fully Operational		Survivable	Mast Failure	
<b>10 Meter 350G Mast</b>				
<b>Primary Guying Only</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>125 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
<b>10 Meter 350G Mast</b>				
<b>Primary &amp; Secondary Guying</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>125 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

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



350G XL Lift Series - Load Tables

**8 Meter System - Specifications**

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

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

**7 Meter System - Specifications**

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

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

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

350G XL Lift Series - Load Tables

6 Meter System - Specifications

Fully Operational		Survivable	Mast Failure	
<b>6 Meter 350G Mast</b>				
<b>Primary Guying Only</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>165 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
<b>6 Meter 350G Mast</b>				
<b>Primary &amp; Secondary Guying</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>165 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

5 Meter System - Specifications

Fully Operational		Survivable	Mast Failure	
<b>5 Meter 350G Mast</b>				
<b>Primary Guying Only</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>170 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

Fully Operational		Survivable	Mast Failure	
<b>5 Meter 350G Mast</b>				
<b>Primary &amp; Secondary Guying</b>				
<small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small>				
<b>170 Lbs. Deployed</b>				
Wind Speed (mph)			<b>70</b>	<b>90</b>
1 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
2 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
3 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			
4 Sq. Ft. Panel	30% Guy Distance			
	50% Guy Distance			
	80% Guy Distance			

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

350G XL Lift Series - Load Tables

4 Meter System - Specifications

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

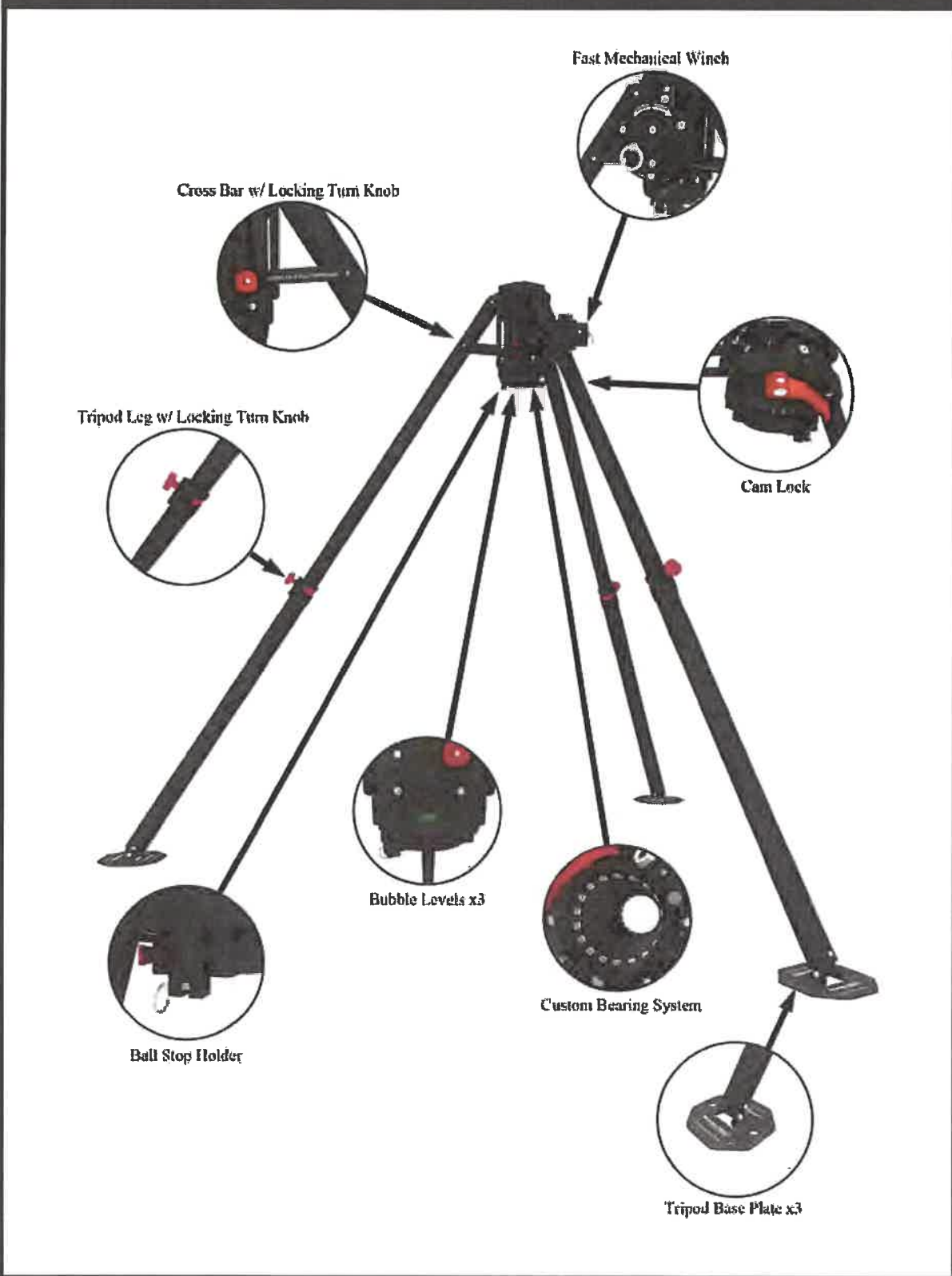
Fully Operational		Survivable	Mast Failure	
<b>4 Meter 350G Mast</b> <b>Primary &amp; Secondary Guying</b> <small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small> <b>175 Lbs. Deployed</b>				
Wind Speed (mph)			70	90
1 Sq. Ft.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

3 Meter System - Specifications

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








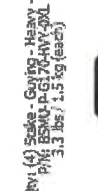
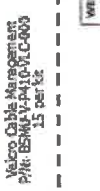











Fully Operational		Survivable	Mast Failure	
<b>3 Meter 350G Mast</b> <b>Primary &amp; Secondary Guying</b> <small>Assumes tripod and guys are properly secured, soil conditions can greatly affect the holding capability of guy stakes</small> <b>180 Lbs. Deployed</b>				
Wind Speed (mph)			70	90
1 Sq. Ft.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

## Anatomy of an 350G XL - Lift Series Tripod





350G XL Lift Series - 15M Datasheet (Case #1 of 2)

 <p>Qty: (1) Hand Case - Uni - Comp - TAN P/N: BSMU-B-CASE-TAN-006 45.7 lbs / 20.7 kg 62 x 21 x 14 (inches)</p>	 <p>Qty: (1) 350G XL - Tripod w/ Bolt-On Lift Winch - Black P/N: BSMW-T-POD-LFT-XLB 44.0 lbs / 21.0 kg</p>	 <p>Qty: (1) Bag - Lift - Components P/N: BSMU-B-AL28-WLS-004 2.0 lbs / 0.9 kg</p>	 <p>Qty: (1) Bag - Scales - Heavy - Black - XL P/N: BSMU-B-4610-SAG-BXL 1.2 lbs / 0.5 kg</p>	 <p>Qty: (1) Winch - Handic P/N: BSMU-B-W5500-HDL-010 9.6 lbs / 4.3 kg</p>	 <p>Qty: (1) Hammer - 4 lbs P/N: BSMU-B-4-1313-4-1313-ES4 4.0 lbs / 1.8 kg</p>	 <p>Qty: (1) Base Plate - Lift Kit - XL P/N: BSMU-B-T105-B5A-001 2.3 lbs / 1.0 kg</p>	 <p>Qty: (3) Scales - Gaining - Heavy - XL P/N: BSMU-B-G170-HV-XL 3.3 lbs / 1.5 kg (each)</p>	 <p>Qty: (2) Crow Bar - Spoke Removal P/N: BSMU-B-M405-CRW-000 2.9 lbs / 1.3 kg (each)</p>	 <p>Qty: (8) Spike - Universal - Tripod - XL P/N: BSMU-B-S000-ST4-DXL 1.4 lbs / 0.6 kg (each)</p>
 <p>Reference Pack - 350G XL P/N: BSMU-B-REF-350G-001 0.7 lbs / 0.3 kg</p>	 <p>Qty: (1) Bag - Pri &amp; Sec Gaining P/N: BSMU-B-AL28-WLS-003 2.0 lbs / 0.9 kg</p>	 <p>Qty: (1) Secondary Gak Ring - AL3 P/N: BSMU-B-A1000-RING-CLO 1.5 lbs / 0.7 kg</p>	 <p>Qty: (1) Hammer - 4 lbs P/N: BSMU-B-4-1313-4-1313-ES4 4.0 lbs / 1.8 kg</p>	 <p>Qty: (1) Primary Gak Ring - AL3 P/N: BSMU-B-A1000-RING-PND 1.0 lbs / 0.4 kg</p>	 <p>Qty: (3) Scales - Gaining - Heavy - XL P/N: BSMU-B-G170-HV-XL 3.3 lbs / 1.5 kg (each)</p>	 <p>Qty: (4) 15M - Gak Rope w/ Cleat - Primary P/N: BSMU-B-15M-RP-001 1.4 lbs / 0.6 kg (each)</p>	 <p>Qty: (4) 15M - Gak Rope w/ Cleat - Secondary P/N: BSMU-B-15M-RP-002 1.4 lbs / 0.6 kg (each)</p>	 <p>Qty: (4) 15M - Gak Rope w/ Cleat - Primary P/N: BSMU-B-15M-RP-001 1.4 lbs / 0.6 kg (each)</p>	 <p>Qty: (4) 15M - Gak Rope w/ Cleat - Secondary P/N: BSMU-B-15M-RP-002 1.4 lbs / 0.6 kg (each)</p>

<b>BLUESKY MAST</b> elevating solutions <sup>SM</sup>	
<b>WIND RATING</b> 25 mph / 10.4 m/s	<b>MAX LOAD</b> 25 lbs / 11.3 kg
<b>BLUESKY Mast, Inc.</b> 4515 Glenshire Hwy Dunwoody, GA 30358 www.blueskymast.com 800.877.4111	
<b>Model - 350G XL - Lift Series - 15M (49 ft.)</b>	
<b>PART NUMBER</b>	<b>REV</b>
<b>350G-W-L315-LFT-000</b>	<b>3</b>
<small>1) Copyright © 2015, by Atlantic, LLC. All Rights Reserved. This specification is subject to change without notice. BLUESKY MAST, INC. 11/15/15</small>	







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

**Qty (1) Hand Case - Univ. Config 6 - TAN**  
P/N: BSMHLC-CASE-TAN-006  
45.7 lbs / 20.7 kg  
62 x 21 x 14 (inches)

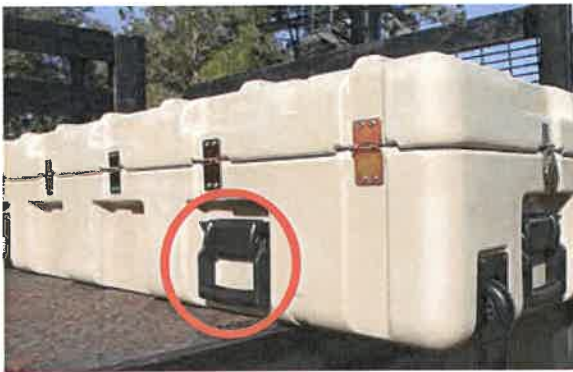
**Qty (13) Pole - Canvas Mast - 350G**  
P/N: 350G-P-1102-000  
6.9 lbs / 3.1 kg (each)

**Qty (1) Pole - Mounting - 350G**  
P/N: 350G-P-MT-000  
5.0 lbs / 2.3 kg

<b>WEIGHT</b> As Shown: 12.2 lbs		<b>BLUESKY MAST<sup>SM</sup></b> elevating solutions <sup>SM</sup>	
<b>WIND RATING</b> 50 mph / 113 km/h		<b>TITLE</b> Mast - 350G XL - Lift Series - 15M (49 ft.)	
<b>MAX LOAD</b> 5 lbs / 2.3 kg		<b>PART NUMBER</b> 350G-W-L315-LFT-000	
Bluesky Mast, Inc. 1515 Glen Hwy Titusville, FL 32780 www.blueskymast.com blueskymast@blueskymast.com		<b>REV</b> 3	
Phone: 877-411-6278 FAX: 321-265-3300		© Copyright 2024 by Aterco, LLC All Rights Reserved This specification is subject to change without notice. DRAWING SCALE: NONE. DIMENSIONS IN INCHES	

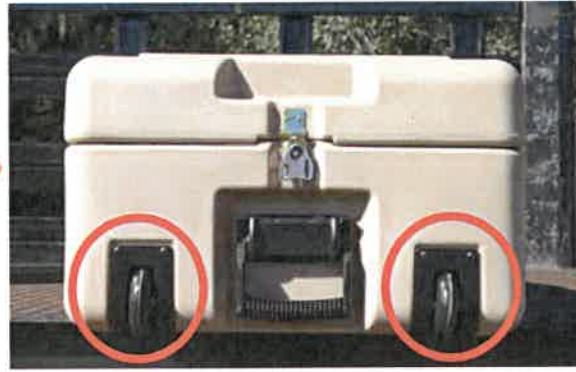
Load / Unload 350G XL Lift Series Mast System Case

1



A total of six carry handles on corners and ends

2



Wheels on one end

3



Two-person lift and drag  
(lifted weight 76 lbs.)

4



Two-person lift one end  
onto vehicle / trailer  
(lifted weight 76 lbs.)

Load / Unload 350G XL Lift Series Mast System Case

5



**Two-person lift one end  
onto vehicle / trailer**

6



**Two-person lift other end  
(lifted weight 76 lbs.)**

7



**Two-person slide case onto  
vehicle / trailer**

8



**Case loaded for transport,  
reverse process for unloading**

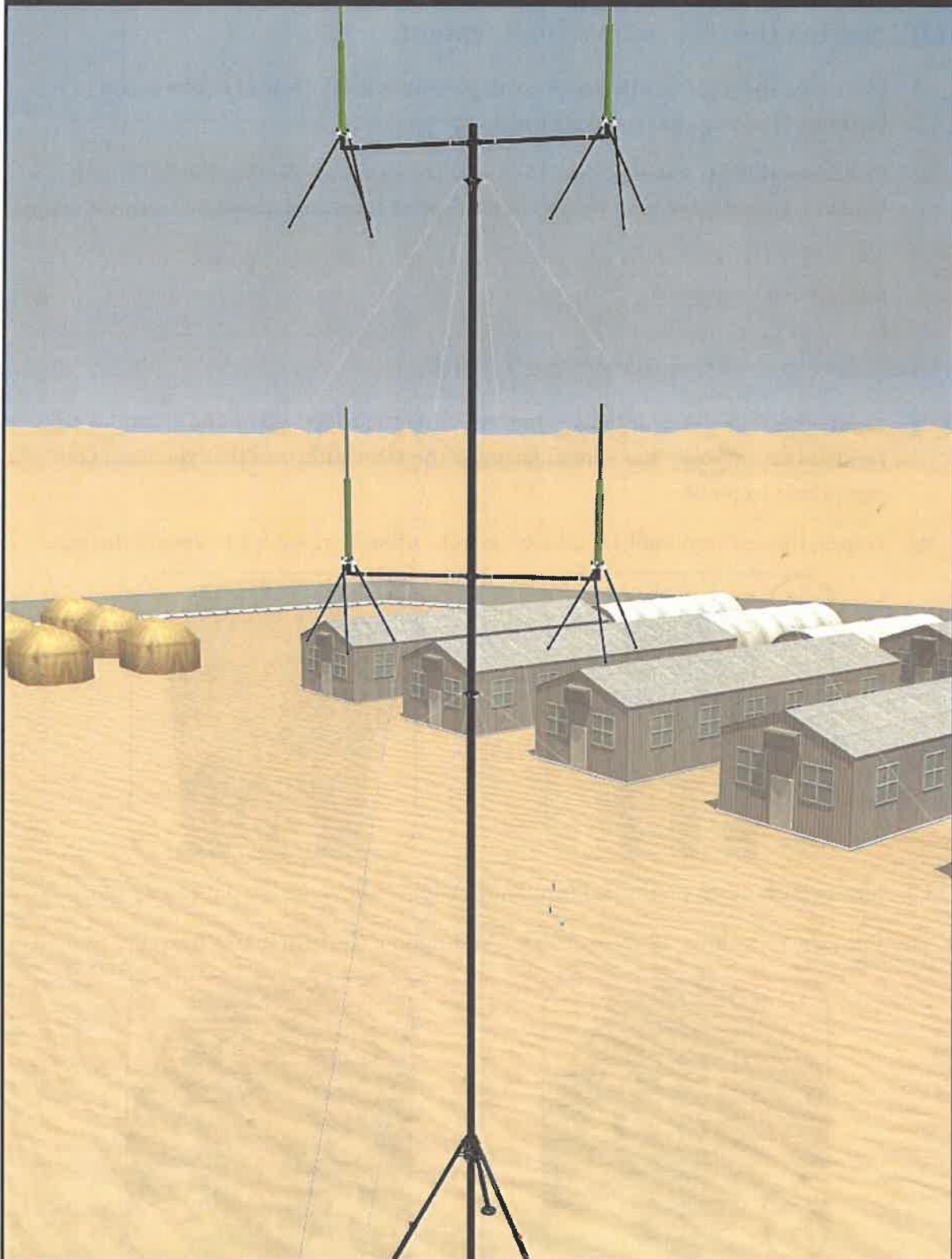
## Deploying the 350G XL - Lift Series Mast System With Primary and Secondary Guying

**Expert Users - 2 People - 25 Minutes**

**Novice Users - 2 People - 45 Minutes**



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





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

**1) Inspecting the Site Before Deployment.**

- A) Make sure the ground where you are deploying is level, clear of debris and is capable of holding the tripod stakes and guy stakes.
- B) Make sure there is enough room to extend your guy ropes out to the full length based on your deployment height. BlueSky Mast recommends an 80% guy radius.
- ⚠ C) SAFETY: Make sure there are no overhead wires, buried power lines, or an unexploded ordinance.**

**2) Setting Up and Orienting the Tripod.**

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



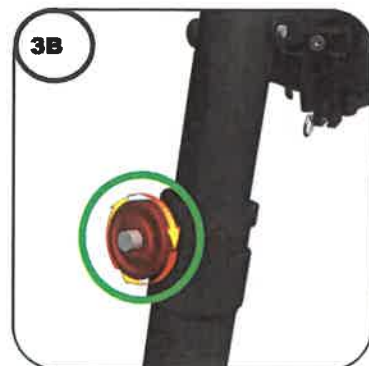
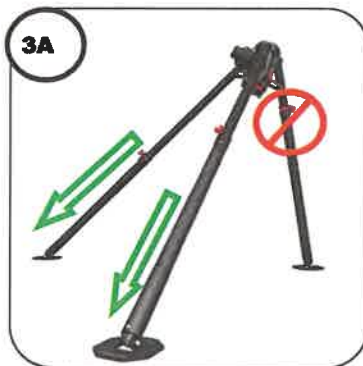
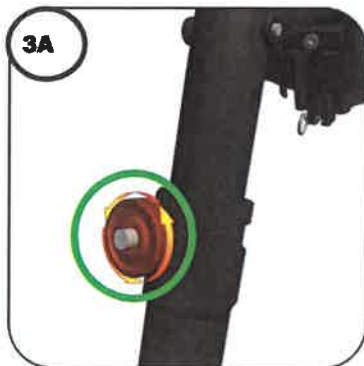
- C) Slowly push down on the red turn knobs while pulling the leg out to extend it.
- D) Push the cross links all the way down and tighten the turn knobs to secure them.



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

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

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



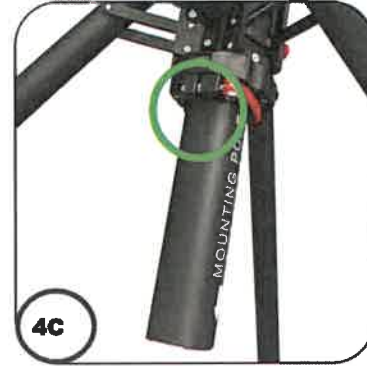
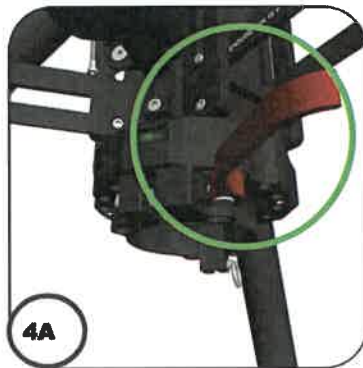
- C) Make sure all tripod base plates are level and flat on the ground.
- D) Locate the stake bag with the tripod stakes and hammer.
- E) Drive a **SINGLE** tripod stake at a slight angle into the **LEFT SIDE** of each of the two base plates on the **TWO EXTENDED LEGS ONLY**. Do not drive a stake into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



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

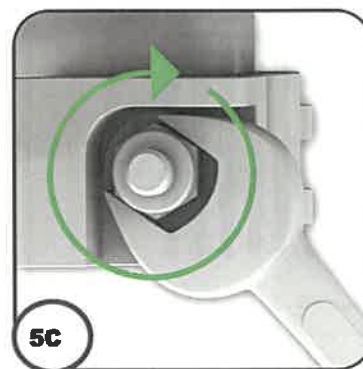
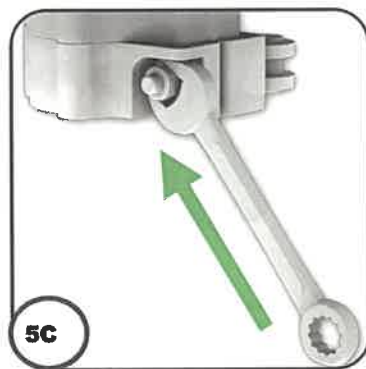
#### 4) Inserting the Mounting Pole.

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



#### 5) Cam Lock Maintenance

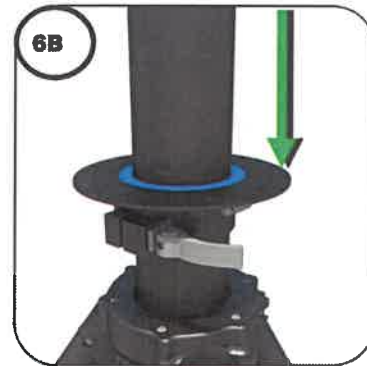
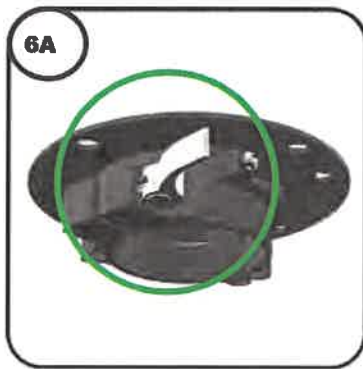
- ⚠ A) SAFETY:** If at any point the mast begins to slip while the Cam Lock is engaged, use the wrench provided with the system to make adjustments.
- B) If slipping occurs after center mast poles have been deployed, lower the mast so that it contacts the ground.
- C) Tighten the nut on the Cam Lock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



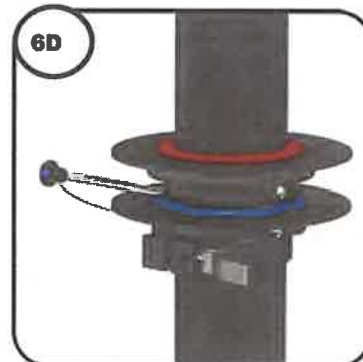
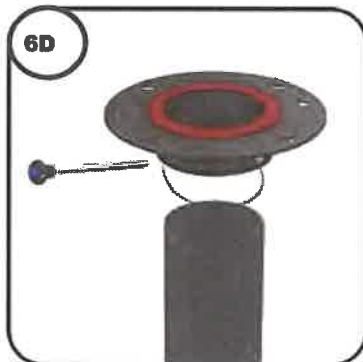
350G XL Lift Series - User Manual (Primary & Secondary Guying)

**6) Adding the Primary and Secondary Guy Ring.**

- A) Locate the **Blue Secondary Guy Ring** located in the bag marked GUYING.
- B) Release the Cam Lock on the Blue Secondary Guy Ring and slide it over the top of the mounting pole until it rests on top of the tripod. **DO NOT** lock it into place at this time.



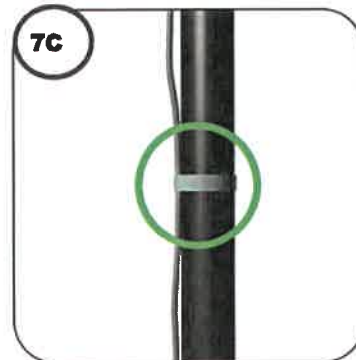
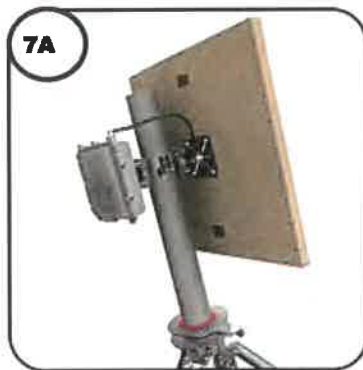
- C) Locate the **Red Primary Guy Ring** located in the bag marked GUYING.
- D) Remove the push pin and slide it over the top of the Mounting Pole until it rests on top of the Blue Secondary Guy Ring. **DO NOT** pin the Red Primary Guy Ring at this time.



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

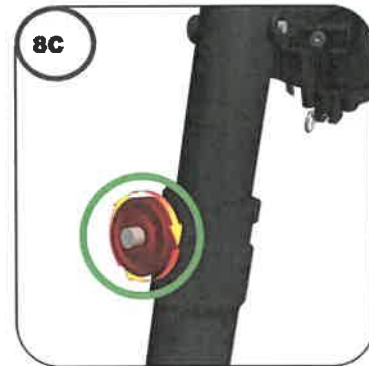
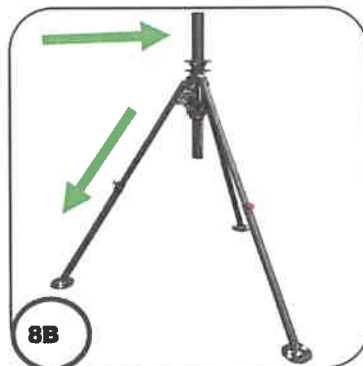
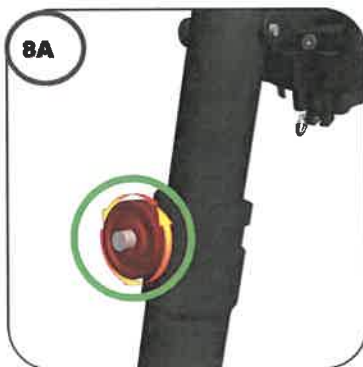
**7) Attaching Your Equipment.**

- A) Attach your equipment to the Mounting Pole.
- B) Properly adjust and secure your equipment and connect any cables at this time.
- ⚠ C) SAFETY:** Always secure loose cables to the mast during deployment with Velcro or some form of cable management to reduce strain on the cables and prevent damage to the connections. Loose cables can also cause the mast to lean to one side and affect performance and safety.



**8) Raise the Tilt Leg.**

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

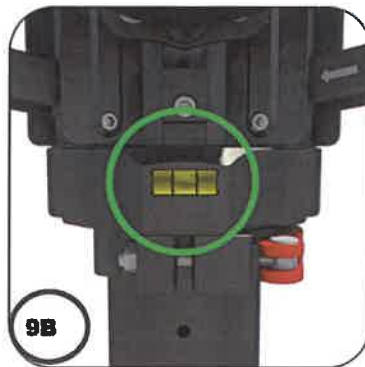




350G XL Lift Series - User Manual (Primary & Secondary Guying)

### 9) Leveling the Tripod.

- A) Make sure all Tripod Base Plates are level and flat on the ground.
- B) Locate the three Bubble Levels on the Tripod.
- C) If any of the bubbles fall beyond the level lines, one at a time, loosen the turn knob on the leg and adjust the length as needed to make the tripod level. Tighten the turn knobs when finished.
- ⚠ D) SAFETY: Improper leveling can result in excessive leaning which can damage the system and can cause serious bodily harm.**



### 10) Securing the Tripod.

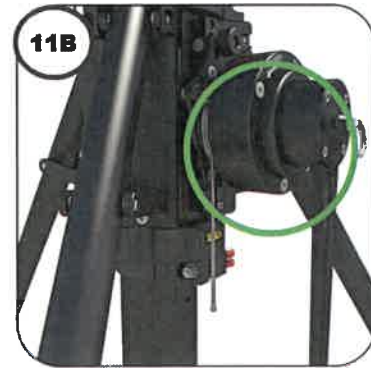
- A) Drive tripod stakes in at a slight angle (opposite directions) into the remaining holes on all three tripod leg base plates.



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

**11) Attaching the Winch Handle.**

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



**12) Attaching the Lift Base Plate.**

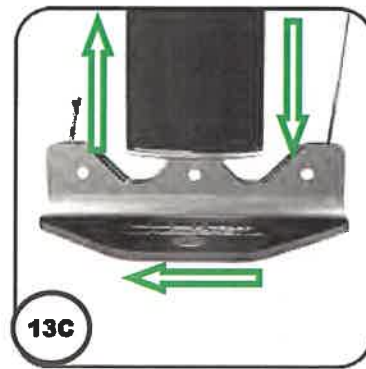
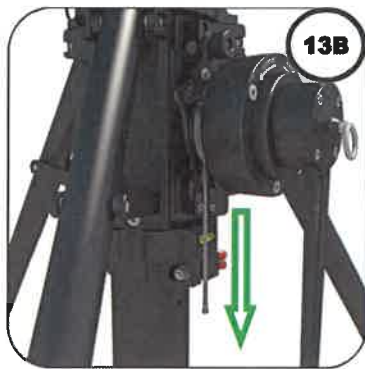
- A) Locate the Lift Base Plate (located in the large black accessory bag).
- B) Insert it into the bottom of the Mounting Pole.
- C) Align the Lift Base Plate so that the rollers on the plate are in line with the Winch and the Tilt Leg.



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

### 13) Attaching and Securing the Winch Cable.

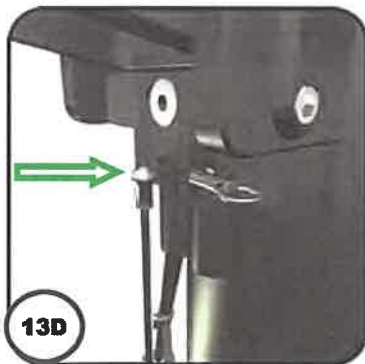
- A) Turn the Winch Handle counter-clockwise paying out about three feet of cable.
- B) Make sure the cable extends directly from the bottom left side of the winch reel.  
DO NOT let the cable loop over the spacer, it must hang freely from the winch.
- A) Pass the end of the cable with the Ball Stop through the bottom of the two rollers on the Lift Base Plate.



- D) Locate the Ball Stop Holder located on the bottom of the Tripod opposite the Winch.
- E) Secure the Ball Stop by pulling the pin on the Ball Stop Holder and guide the Ball Stop into place.

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

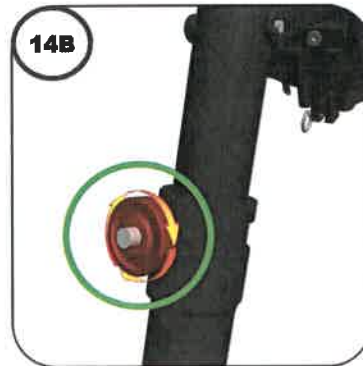
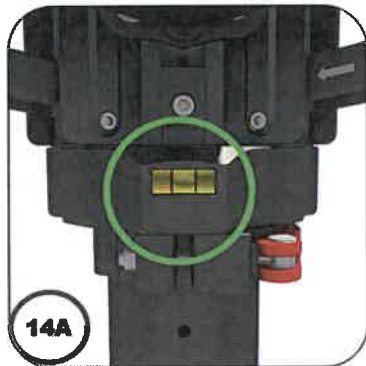
- G) Remove the slack in the cable by cranking the winch handle clockwise until the Lift Base Plate is seated securely in the bottom of the Mounting Pole.



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

**14) Confirm the tripod is level and secured.**

- A) If any of the bubbles fall beyond the level lines, one at a time, loosen the turn knob on the tripod leg and adjust the length as needed to make the tripod level.
- B) Fully tighten the Tripod Leg Turn Knobs.
- ⚠ C) SAFETY: Never adjust the Tripod Leg Turn Knobs during or after deployment of the Center Mast Poles.**



**15) Raising the Mounting Pole.**

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

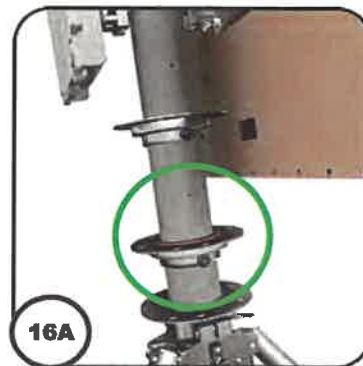
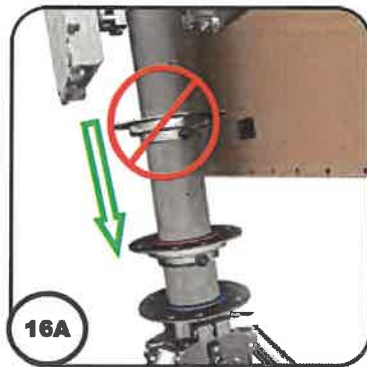




350G XL Lift Series - User Manual (Primary & Secondary Guying)

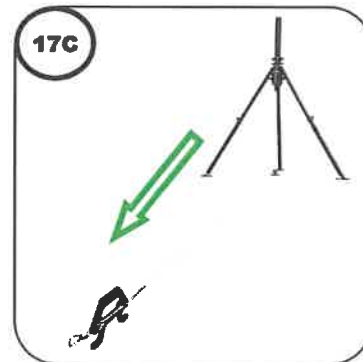
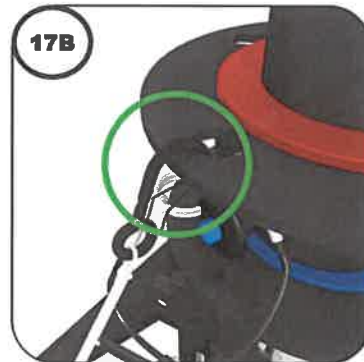
**16) Securing the Primary Guy Ring.**

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



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

- A) PERSON #1 - Locate the GUY LEADER with Orange Guy Rope
- B) Clip the end into the Round Hole on the Red Primary Guy Ring.
- C) Walk away from the mast unwinding the guy rope until you reach to 15M mark on the guy leader.



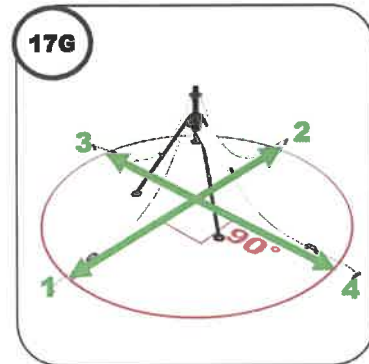
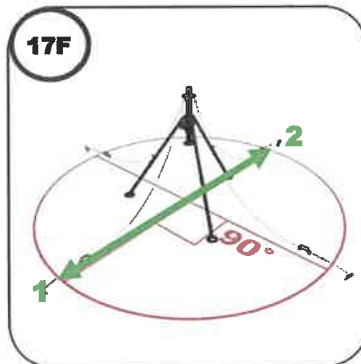
350G XL Lift Series - User Manual (Primary & Secondary Guying)

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

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



- E) Guy Stake #1 - At the 15M mark on the Guy Leader, drive a stake into the ground at an angle.
- F) Guy Stake #2—make sure it is staked directly opposite and in line with Guy Stake #1 at the 15M mark on the Guy Leader.
- G) Repeat this process until all 4 guy stakes have been deployed 90 degrees apart.

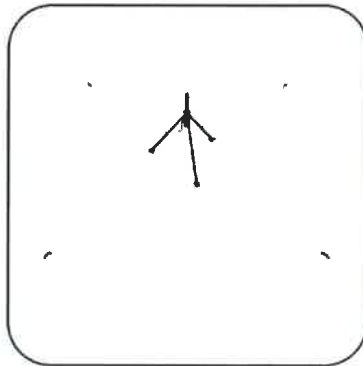


350G XL Lift Series - User Manual (Primary & Secondary Guying)

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

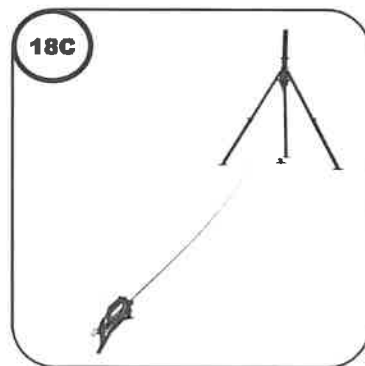
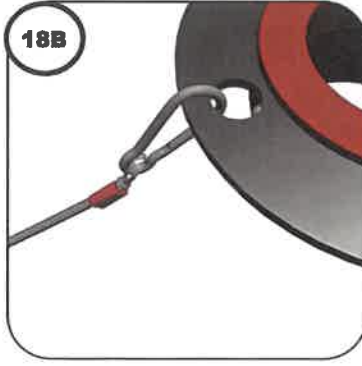
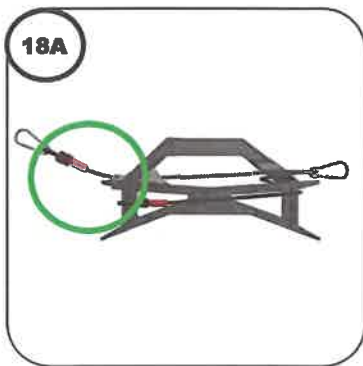
**NOTE:** If you have lost or do not have a GUY LEADER to mark your guy stakes, start at the center of the tripod and take One NORMAL Step per meter of system height away from the mast. Do not exaggerate your steps, take one NORMAL step per meter of height.

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



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

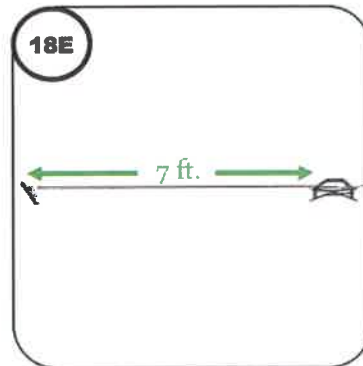
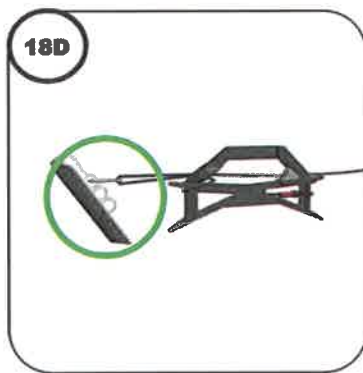
- A) Locate the 4 Primary Guy Ropes with Red Tabs next to the guy clip.
- B) Remove the guy leader and clip the first primary guy rope to the round hole on the primary guy ring.
- C) Unwind the guy rope from the guy handle while walking away from the mast and towards the first guy stake.



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

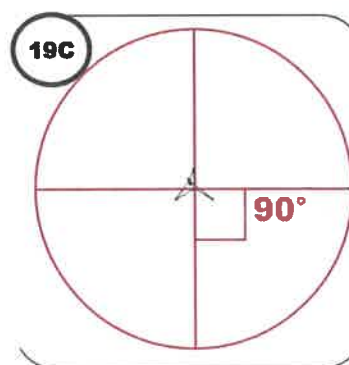
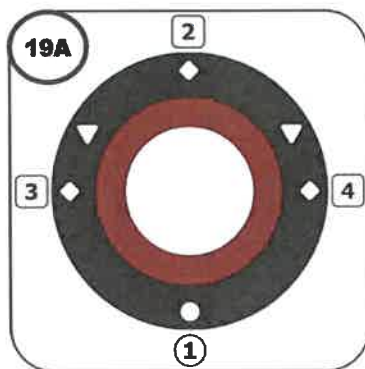
**18) Primary Guying - Continued...**

- D) Make sure to unwind all of the guy rope off the guy handle and clip the primary guy rope to the top hole of the guy stake.
- E) **IMPORTANT:** Slide the guy handle towards the mast approx. 7 feet. This will help to prepare you for incremental guying.



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

- A) Attach the stainless steel clip on the free end of the Primary Guy Ropes to the remaining **Square Holes on the Primary Guy Ring**.
- B) Repeat the process outlined in step 18 until all 4 guy ropes have been deployed.
- C) When finished, the Primary Ropes should be deployed 90 degrees from each other.





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

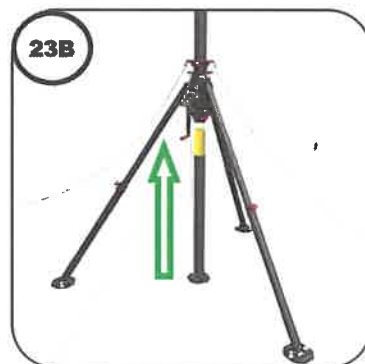
### 20) Lowering the Lift Base Plate to the Ground.

- ⚠ A) **SAFETY:** Make sure the Cam Lock is locked before lowering the lift base plate.
- B) Slowly begin lowering the Lift Base Plate by turning the winch handle counter clockwise making sure that the Mast Poles do not begin to move.
- ⚠ C) **SAFETY:** If slipping occurs check that the Cam Lock is locked. If it is locked, refer to the “Cam Lock Maintenance” on Page 24.
- D) Continue lowering the Lift Base Plate until it rest flat on the ground.



### 21) Inserting the First Center Mast Pole.

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



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

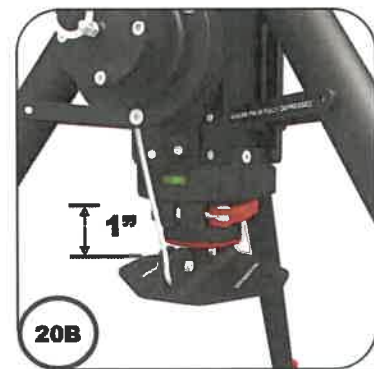
**21) Inserting the First Center Mast Pole - Continued...**

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



**22) Lifting the Center Mast Pole.**

- A) Make sure that the cable is taut and straight. If the cable has become slightly twisted then tap the Lift Base Plate lightly with your foot to straighten out the cable.
- B) Release the Cam Lock and raise the Center Mast Pole until the bottom is within one inch of the bottom of the tripod.
- C) Lock the Cam Lock on the tripod.
- D) Repeat this process of adding Center Mast Poles until it is time to engage the Blue Secondary Guy Ring at one half the total mast height.



**HELPFUL HINTS:**

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

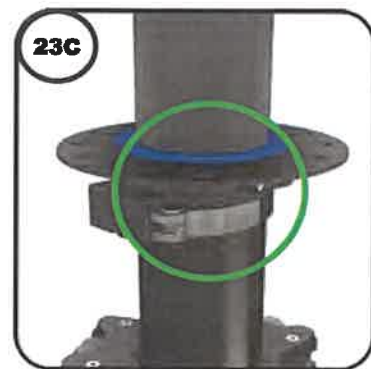
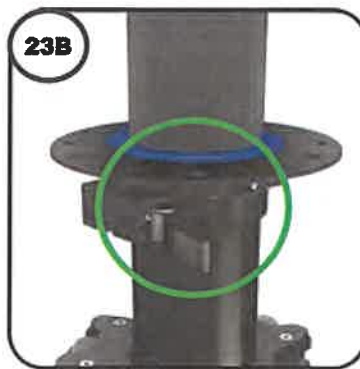
*Secure all cables using the Velcro Straps*

*Always monitor your Guy Wires*

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

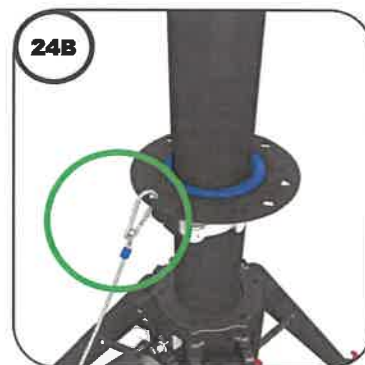
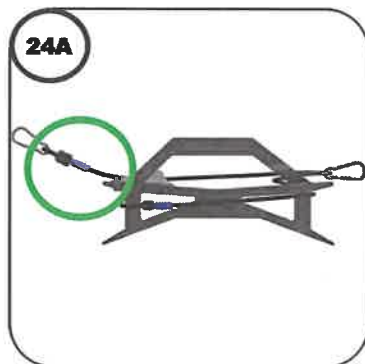
### 23) Secondary Guying - Securing the Secondary Guy Ring.

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



### 24) Secondary Guying - Deploying the Secondary Guy Ropes

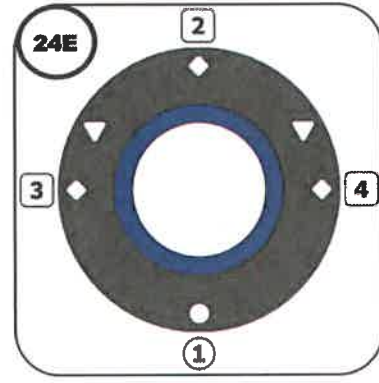
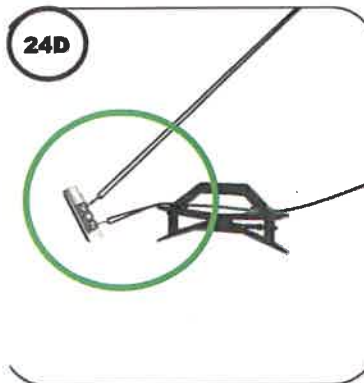
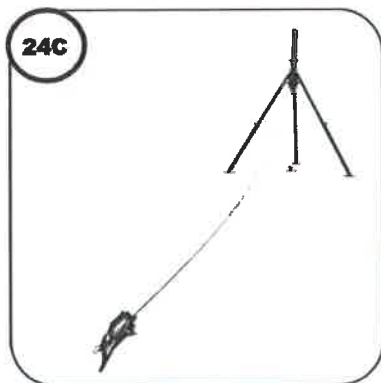
- A) Locate the four Secondary Guy Ropes with Blue Tabs next to the guy clip in the bag marked GUYING.
- B) Attach the stainless steel clip on the free end of the 1st Secondary Guy Rope to the round hole on the Blue Secondary Guy Ring.



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

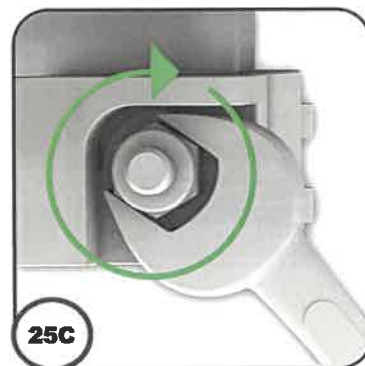
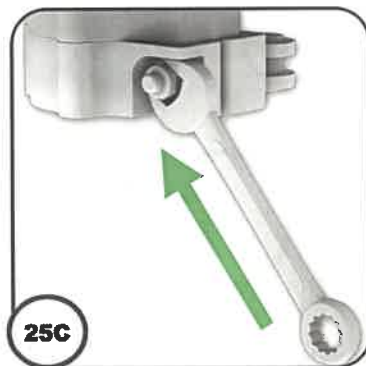
**24) Secondary Guying - Continued...**

- C) Walk away from the mast while unwinding ALL of the guy rope from the handle.
- D) Clip the end of the secondary guy rope to the bottom hole on the guy stake.
- E) Repeat the Process until all 4 Secondary Guy Ropes have been deployed using the remaining square holes on the secondary guy ring



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

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





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

### Incremental Guying - Why is it Important?

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

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

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

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

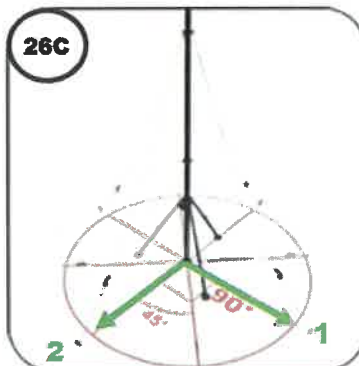
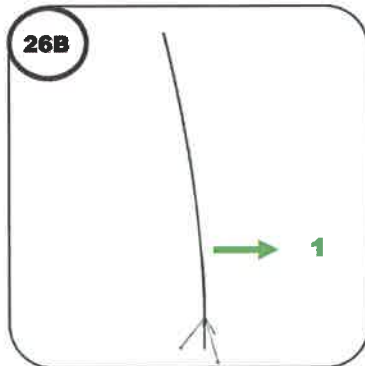


**HELPFUL HINTS:**  
*Guide the cable on the winch to avoid stack up and jumping.*  
*Secure all cables using the Velcro Straps*  
*Always monitor your Guy Wires*

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

**26) Incremental Guying - 2 ppl.**

- A) Once the mast begins to lean or the Primary Guy Ropes go taut, then stop cranking the winch and Lock the Cam Lock
- B) Person #1 should go to the Guy Rope opposite the direction the mast is leaning.
- C) Person #2 should go to the guy rope that is 90 degrees from person #1.
- D) To adjust the guy rope, hold the rope in front of the guy handle and slide the handle forward to tighten or use your finger to release the rope from the cleat to slide the handle back and loosen.
- E) Adjust all 4 primary guy ropes until the mast is straight and perpendicular.



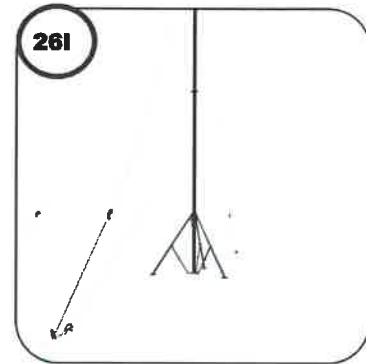
- F) Now loosen the primary guy ropes (**based on the length of the pole below the cam lock**). See examples below. If the length of the pole under the cam lock is 1 foot - slide the handle back 1 foot on each of the 4 primary guy ropes. This will allow you enough room to raise the mast 1 foot and prepare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



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

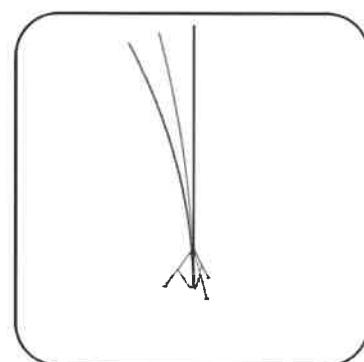
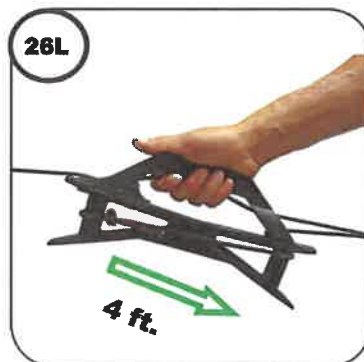
### 26) Incremental Guying - Continued...

- G) Release the cam lock and raise the mast until 1 inch is showing under the cam lock.
- H) Lock the cam lock.
- I) Make sure all 4 primary guy ropes are taut and the mast is straight.



- J) Lower the lift base plate to the ground and insert another mast pole.
- K) Raise the mast pole until the castle cuts nest together.
- L) Now adjust all 4 primary guy ropes by sliding the handle back approx. 4 feet.
- M) This will allow you enough slack to add another mast pole.

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



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

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

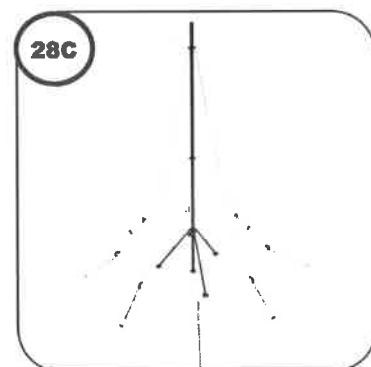
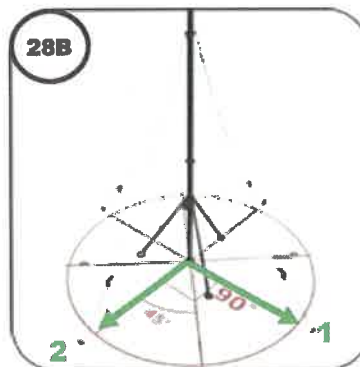
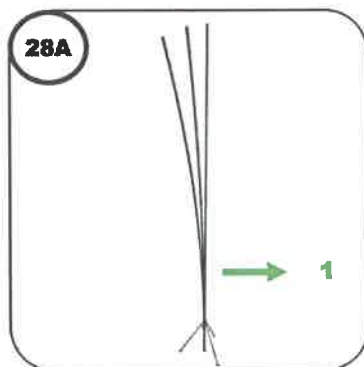
**27) Deploying the last center mast pole.**

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



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

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

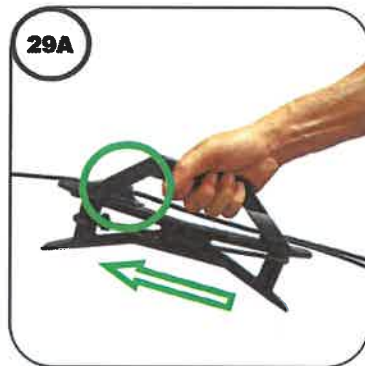




350G XL Lift Series - User Manual (Primary & Secondary Guying)

**29) Adjust and Lock the Primary Guy Ropes.**

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



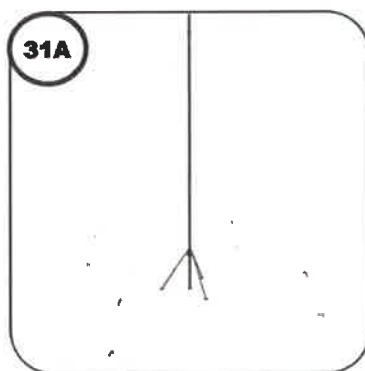
**30) Adjust and Lock the Secondary Guy Ropes**

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

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

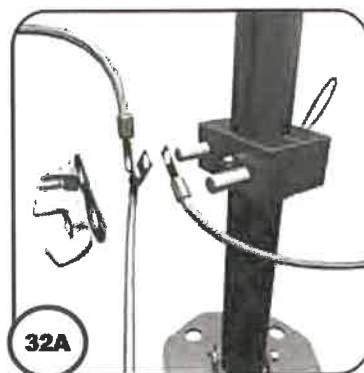
**31) Stake the Lift Kit Base Plate**

- A) Make sure the mast is straight and perpendicular and the primary and secondary guy ropes are adjusted and locked.
- B) Using your foot - gently tap on the mast pole to help relevel the mast (check bubble levels).
- C) Drive two stakes into the lift kit base plate to secure it.



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

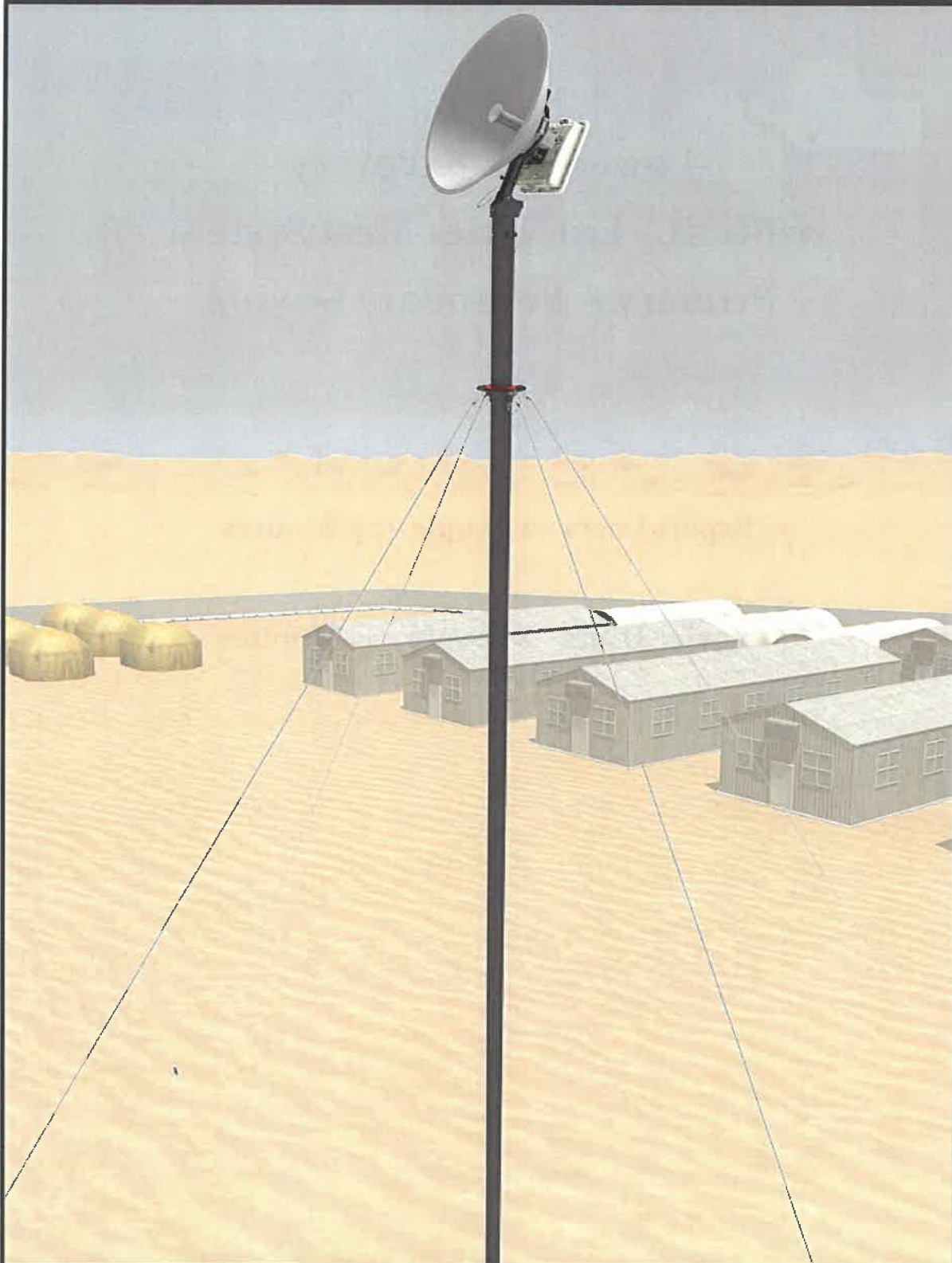
- A) The BlueSky Surface Wire Grounding Kit (additional accessory) can be deployed at this time if available when lightning or static discharge is a safety concern.



**33) Stow the Equipment and Secure the Area.**

- A) Police the area for any loose tools or equipment that may have been left in the field during deployment.
- B) Stow the Hard Cases in a safe place for easy retrieval.

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



350G XL Lift Series - Mast Lowering / Recovery

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

**Expert Users - 2 People - 25 Minutes**

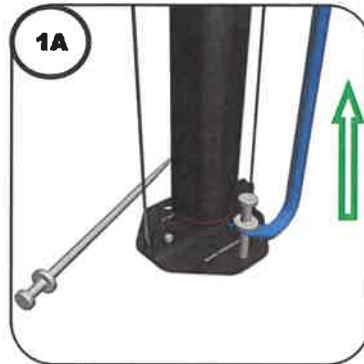
**Novice Users - 2 People - 45 Minutes**



## 350G XL Lift Series - Mast Lowering / Recovery

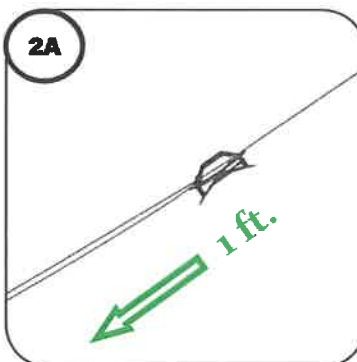
### 1) Removing the Lift Base Plate Stakes.

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



### 2) Loosening the Primary and Secondary Guy Ropes

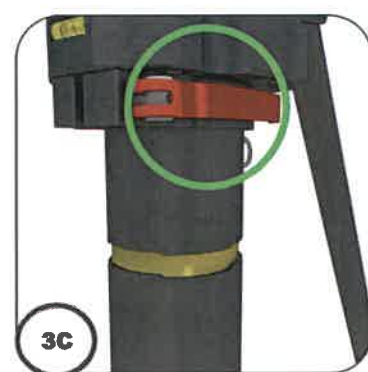
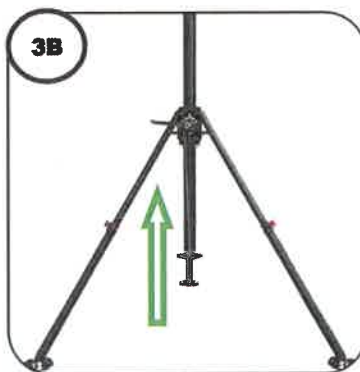
- A) Unlock the Primary and Secondary Guy Ropes and slide the Handle away from the mast approx. ONE FOOT (12 Inches)
- B) DO NOT loosen the guy ropes more than ONE FOOT (12 inches)  
One foot (12 inches) is all you need to raise the mast and remove the first mast pole.



350G XL Lift Series - Mast Lowering / Recovery

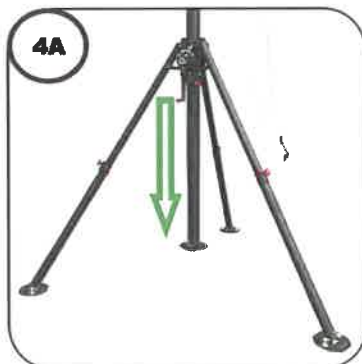
**3) Raising the Mast Pole.**

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



**4) Removing the Mast Pole.**

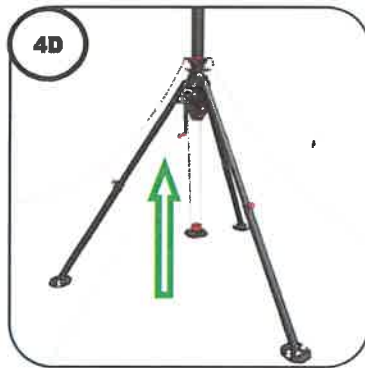
- ⚠ A) SAFETY: Make sure the Cam Lock is engaged before lowering the Lift Base Plate.**
- B) Lower the Mast Pole to the ground by SLOWLY turning the Winch Handle counter clockwise until the Lift Base Plate rests firmly on the ground.



## 350G XL Lift Series - Mast Lowering / Recovery

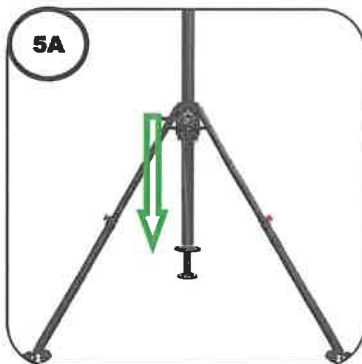
### 4) Removing the Mast Pole - Continued...

- C) Step on the lift base plate, remove the Mast Pole and stow it in the Hard Case.
- D) Raise the Lift Base Plate until it nests firmly into the bottom of the next Center Mast Pole and the cable is straight and taut.



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

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

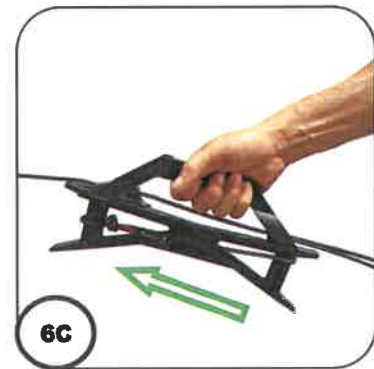
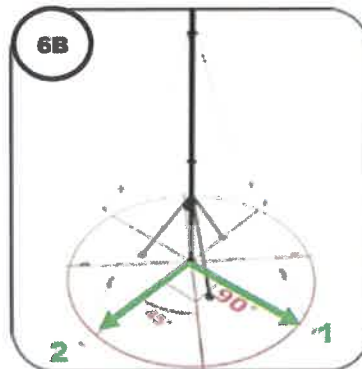
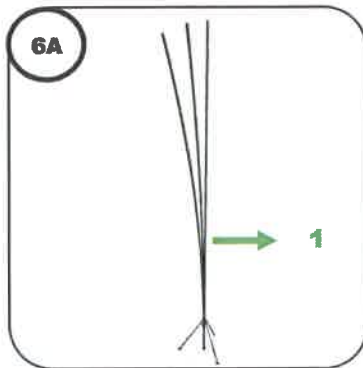


## 350G XL Lift Series - Mast Lowering / Recovery

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

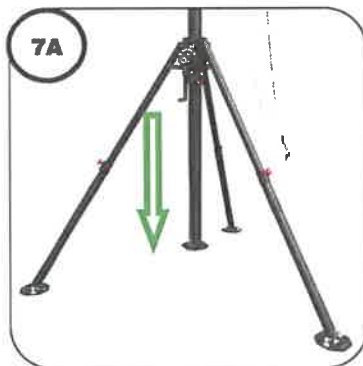
### 6) Adjusting the 4 Primary Guy Ropes- 2 ppl.

- A) Person #1 should go to the Guy Rope opposite the direction the mast is leaning.
- B) Person #2 should go to the guy rope that is 90 degrees from person #1.
- C) Adjust the Primary Guy Ropes by holding the rope in front of the guy handle and sliding the handle forward to tighten.
- D) Adjust all 4 primary guy ropes until the mast is straight and perpendicular.



### 7) Lowering the Next Center Mast Pole.

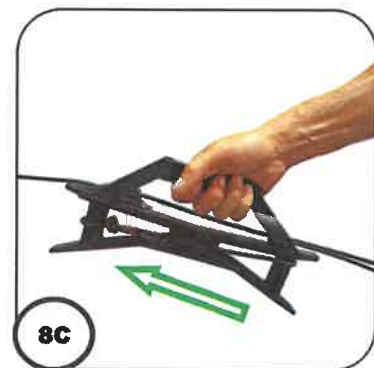
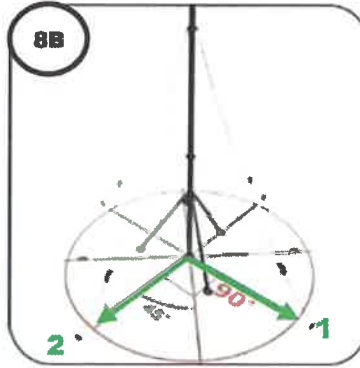
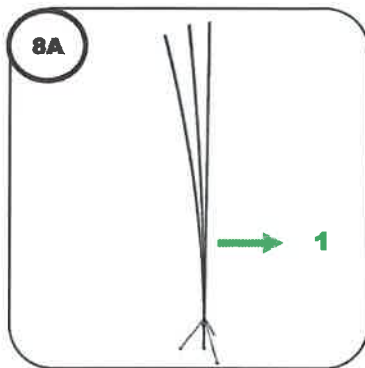
- A) Release the Cam Lock and SLOWLY lower the mast until one inch of the next mast pole is showing below the cam lock.
- B) Lock the cam lock, remove the mast pole and store it in Hard Case #2
- C) Raise the lift kit base plate until it nests firmly into the next mast pole.



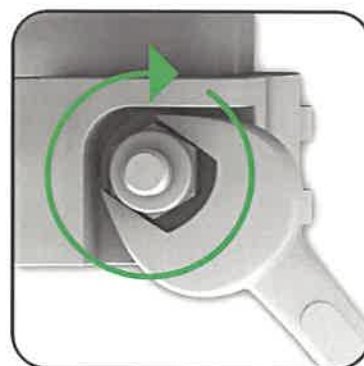
## 350G XL Lift Series - Mast Lowering / Recovery

### 8) Adjusting the 4 Primary Guy Ropes- 2 ppl.

- A) Person #1 should go to the Guy Rope opposite the direction the mast is leaning.
- B) Person #2 should go to the guy rope that is 90 degrees from person #1.
- C) Adjust the Primary Guy Ropes by holding the rope in front of the guy handle and sliding the handle forward to tighten.
- D) Adjust all 4 primary guy ropes until the mast is straight and perpendicular.
- E) **REPEAT STEPS 7 & 8 UNTIL YOU REACH THE SECONDARY GUY RING**



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

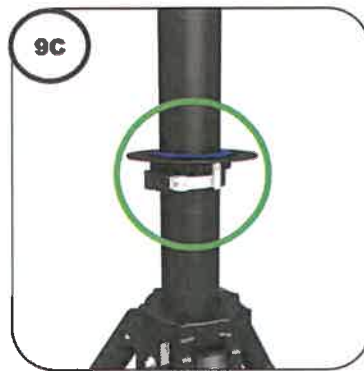




350G XL Lift Series - Mast Lowering / Recovery

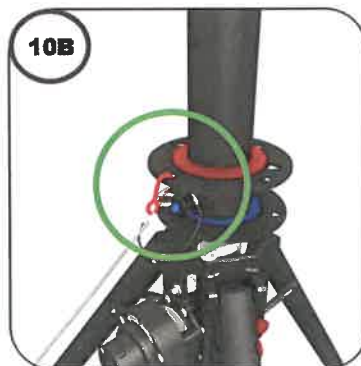
**9) Removing the Secondary Guy Ropes.**

- A) When the Blue Secondary Guy Ring reaches the top of the tripod, stop lowering the mast.
- B) Disconnect the Secondary Guy Ropes, pull in all the slake and wind the loose rope back onto the handle, then place them into the bag marked GUYING.
- C) Release the Cam Lock on the Blue Secondary Guy Ring and allow it to rest on top of the Tripod.



**10) Removing the Primary Guy Ropes.**

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



350G XL Lift Series - Mast Lowering / Recovery

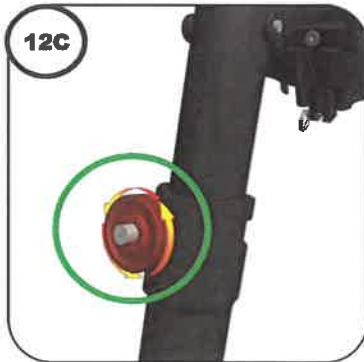
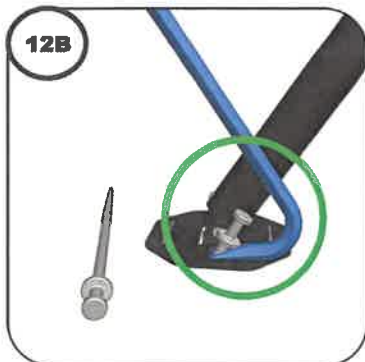
**11) Remove the Guy Stakes**

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



**12) Lowering the Tripod.**

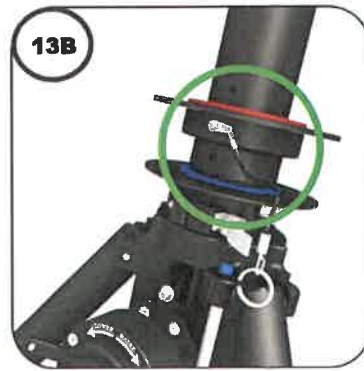
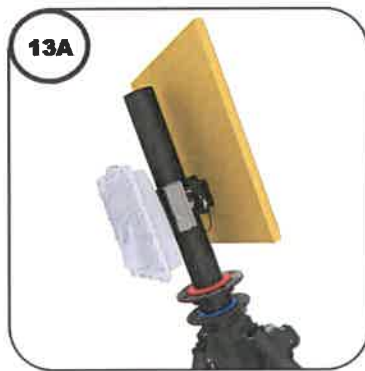
- A) Use the Crow Bar or Stake Puller to remove both stakes in the Tilt Leg Base Plate opposite the winch.
- B) Use the Crow Bar or Stake Puller to remove a single stake on the right side of each of the remaining two base plates.
- C) Loosen the Turn Knob on the Tilt Leg of the Tripod and gently allow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



350G XL Lift Series - Mast Lowering / Recovery

**13) Remove and Stow Devices and Guy Rings.**

- A) Remove all devices and accessories from the mounting pole.
- B) Remove the Red Primary Guy Ring and Blue Secondary Guy Ring and stow them in the bag marked GUYING.



**14) Removing the Remaining Equipment.**

- A) Release the Winch Cable from the Ball Stop Holder and wind the cable back onto the Winch and stow the Handle and Lift Base Plate in the black accessory bag.
- B) Release the Cam Lock and Place the Mounting Pole into Hard Case #2.
- C) Lock the cam lock
- D) Remove the remaining Tripod Stakes and put them back in the stake kit bag.
- E) Collapse the two extended Tripod Legs and tighten the turn knobs.



## 350G XL Lift Series - Stowing and Packing the System

### 15) Collapse and stow the tripod.

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

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



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

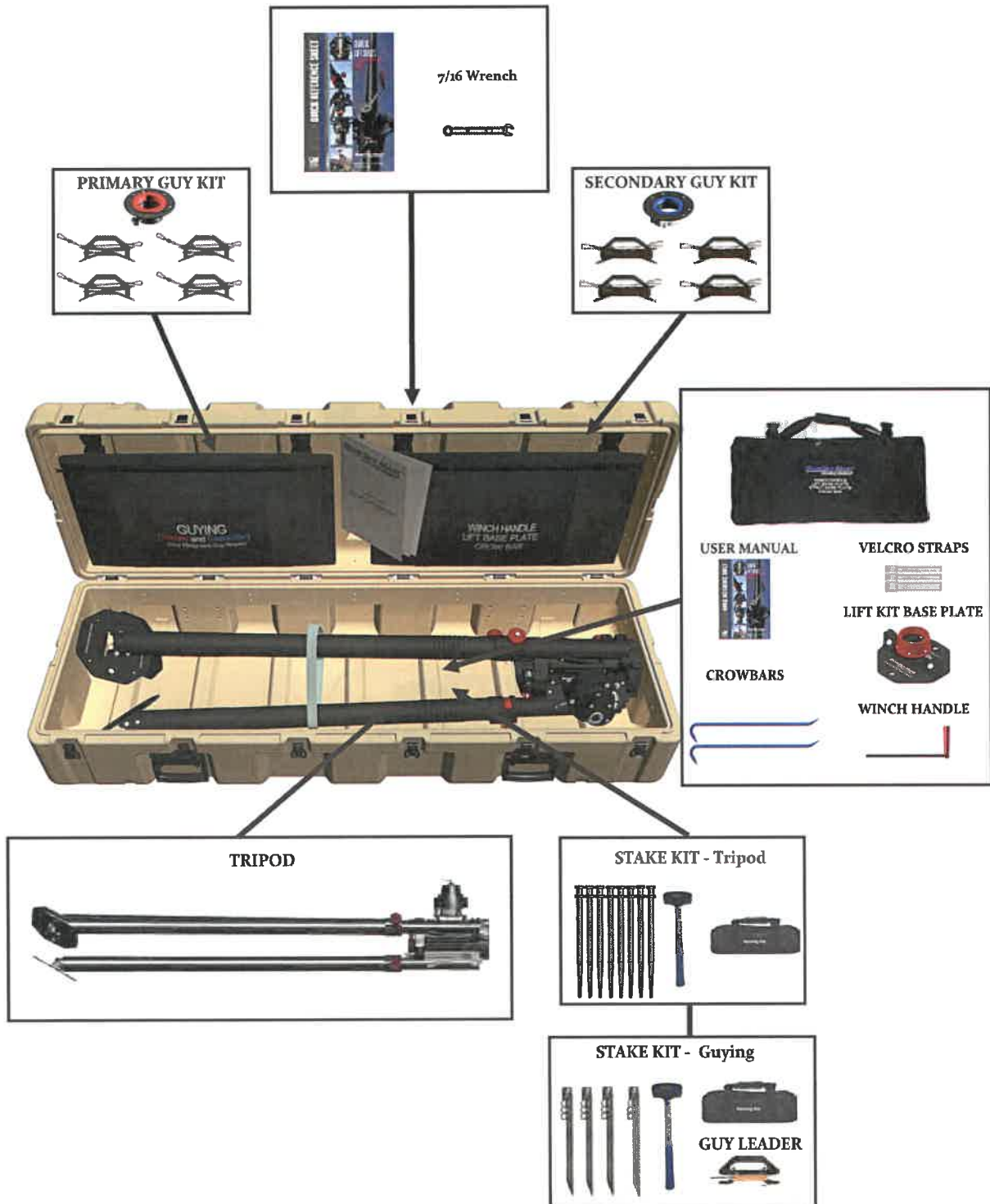


### 16) Stow Loose Gear and Police the Area.

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

350G XL Lift Series - Stowing and Packing the System

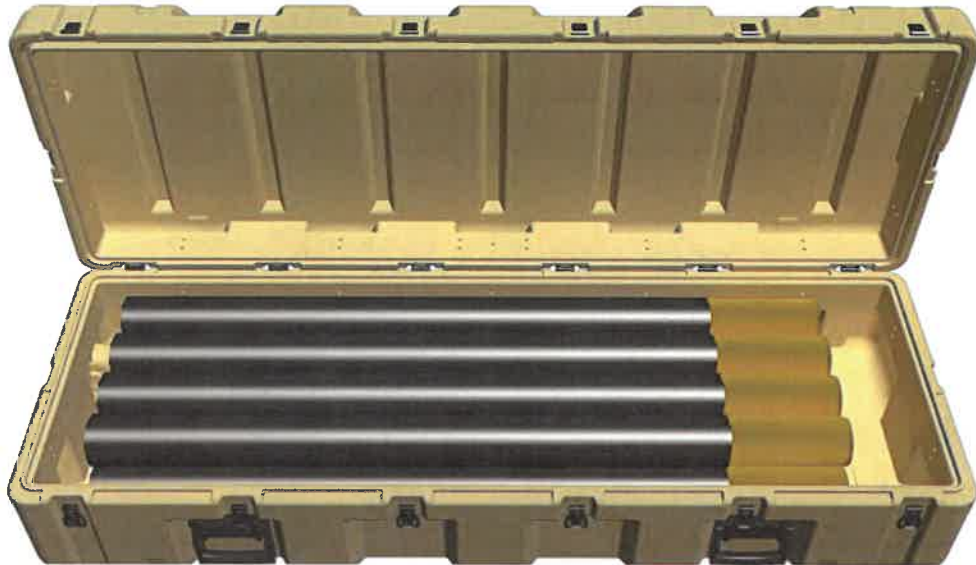
15M System - HARD CASE #1



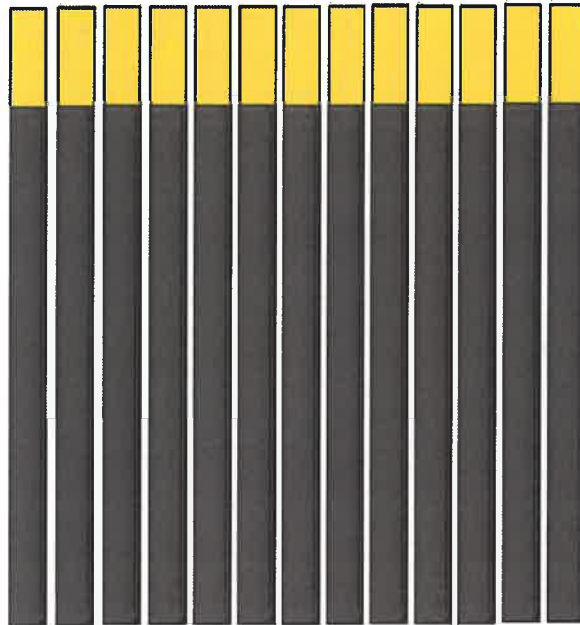


350G XL Lift Series - Stowing and Packing the System

**15M System - HARD CASE #2**



**MOUNTING POLE**



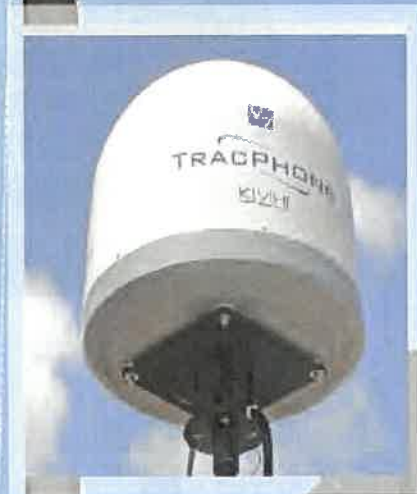
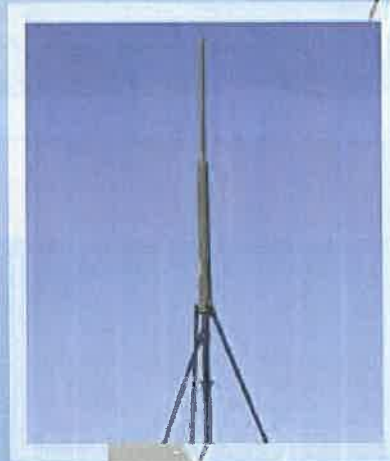
**CENTER MAST POLES**

**BLUESKY MAST**  
elevating solutions<sup>SM</sup>

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## Top Plates & Adaptors

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



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## Top Plates & Adaptors

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



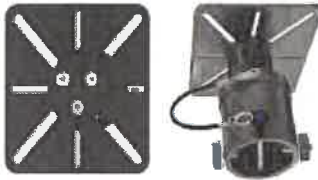
OE-254 & COM201 Antennas  
BSM3-K-M400-OE2-000



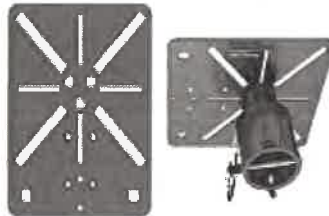
Manual Tilt Assembly with Mounting Pole  
BSM3-K-M650-TLT-000



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



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



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



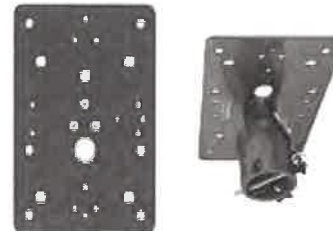
NATO-SINGARS-EPLRS  
BSM3-A-M305-NTQ-00A



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



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



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



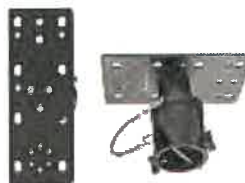


## Top Plates & Adaptors

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



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



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



Tampa Microwave  
BSM3-A-M410-MPA-TML



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



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



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



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



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



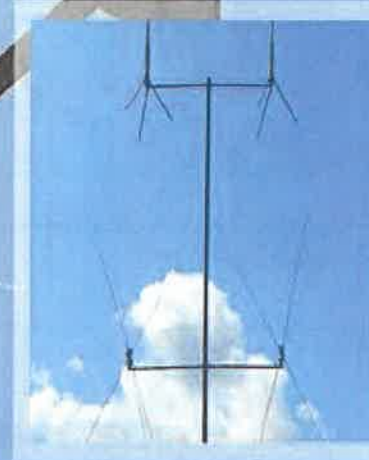
Mobile Mark Omni Antenna  
BSM3-A-M718-MPP-00A

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## Side Arm Kits & Mounts

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



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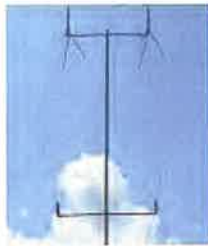


## Side Arm Kits

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

### DUAL

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



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

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

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

ARM LENGTH	PART NUMBER
48 in.	BSM3-K-A352-S48-OE2

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

### DUAL

#### STRAIGHT ARM KIT - DUAL - NATO

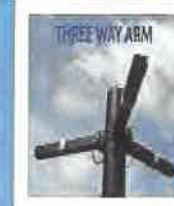


(1) AL3 Pole Mount - Two sided  
P/N: BSM3-P-A352-T00-100

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

ARM LENGTH (inches)	PART NUMBER
24 in.	BSM3-K-A352-S24-NTO
36 in.	BSM3-K-A352-S36-NTO
48 in.	BSM3-K-A352-S48-NTO

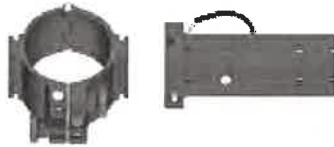
(2) Straight Arm Bracket w/1.5 in. Side Arm (24, 36, 48 in.)



## Side Arm Kits

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

### SINGLE



(1) AL3 Pole Mount - Two Sided  
P/N: BSM3-P-A352-T00-000

(2) Straight Arm Bracket w/1.5 in. Side Arm (6 to 48 in.)  
P/N: BSMU-P-A3XX-ARM-15S

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

#### STRAIGHT ARM KIT - SINGLE - NO SIDE MOUNT

ARM LENGTH (inches)	PART NUMBER
6 in.	BSM3-K-A351-506-150
12 in.	BSM3-K-A351-512-150
24 in.	BSM3-K-A351-524-150
36 in.	BSM3-K-A351-536-150
48 in.	BSM3-K-A351-548-150

### DUAL



(1) AL3 Pole Mount - Two Sided  
P/N: BSM3-P-A352-T00-000

(2) Straight Arm Bracket w/1.5 in. Side Arm (6 to 48 in.)  
P/N: BSMU-P-A3XX-ARM-15S

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

#### STRAIGHT ARM KIT - DUAL - NO SIDE MOUNT

ARM LENGTH (inches)	PART NUMBER
6 in.	BSM3-K-A352-506-150
12 in.	BSM3-K-A352-512-150
24 in.	BSM3-K-A352-524-150
36 in.	BSM3-K-A352-536-150
48 in.	BSM3-K-A352-548-150

### THREE WAY



(1) AL3 Pole Mount - Sided  
P/N: BSM3-P-A352-T00-000

(3) Straight Arm Bracket w/1.5 in. Side Arm (6 to 48 in.)  
P/N: BSMU-P-A3XX-ARM-15S

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

#### STRAIGHT ARM KIT - THREE WAY - NO SIDE MOUNT

ARM LENGTH (inches)	PART NUMBER
6 in.	BSM3-K-A353-506-150
12 in.	BSM3-K-A353-512-150
24 in.	BSM3-K-A353-524-150
36 in.	BSM3-K-A353-536-150
48 in.	BSM3-K-A353-544-150

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## Side Arm Mounts

These Side Arm Mounts can be used with all AL3 side arm kits *(Based on system height and payload)*.



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

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



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

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



NATO - SINGARS - EPLRS  
BSMU-A-M305-NT0-EMS



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

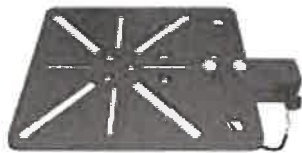
This insulated adaptor works  
with both COM201 and OE-254  
antennas.





## Side Arm Mounts

These Side Arm Mounts can be used with all AL3 side arm kits (Based on system height and payload).



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



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



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



Bolster Plate  
BSMU-P-AT01-BOL-EM5



ARUBA AP  
BSMU-A-M325-AAP-EM5



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



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



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



GPS Antenna  
BSMU-A-M375-GPS-EM5

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## Pole Mounts & Plate Brackets

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





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

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

Pole Mount - Two Sided - AL3 BSM3-P-A352-T00-000



Patented BlueSky Mast Interface



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



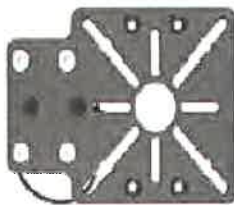
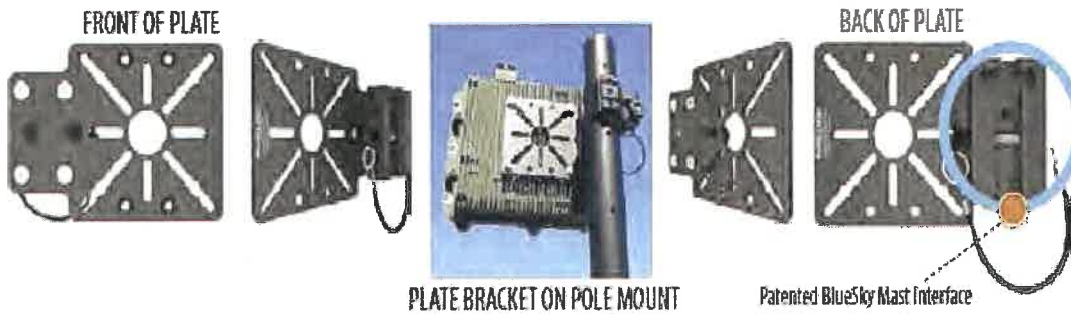
Patented BlueSky Mast Interface





## Plate Brackets

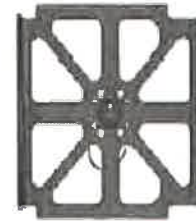
These plate brackets can be mounted anywhere on the mast using our 2 or 3 side pole mounts.



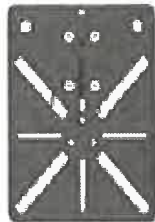
Universal PTP Plate  
BSM2-A-M900-PTP-BRK



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



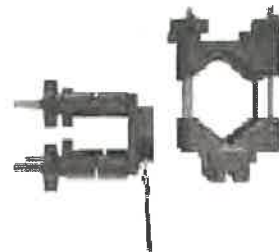
Ultra TCS 245 Radio  
BSMU-A-M850-TCS-BRK



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



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

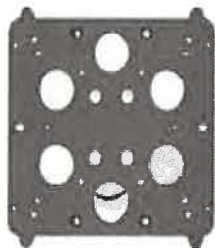


Omni Bracket 2.0 to 3.5 Inch OD  
BSMU-P-A350-OMN-BRK



## Plate Brackets

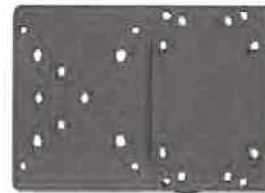
These plate brackets can be mounted anywhere on the mast using our 2 or 3 side pole mounts.



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



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



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



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



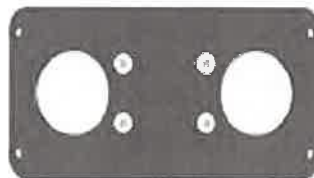
Radiowaves 2ft. Parabolic Antenna  
BSM2-A-M502-MPP-BRK



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



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



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



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



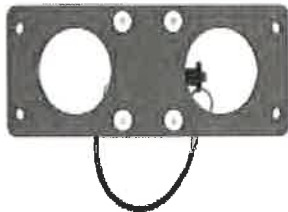


## Plate Brackets

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



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



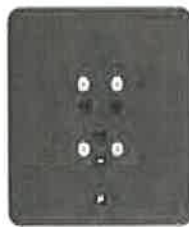
Rajant Breadcrumb Radio  
BSMU-A-M580-RAJ-BRK



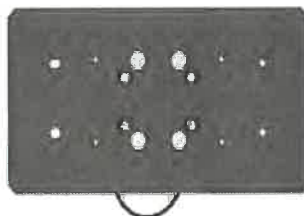
Rajant PC Tel Sector Antenna  
BSMU-A-M587-RAJ-BRK



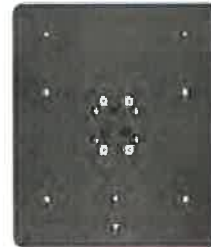
Hyperlink - L-Com Panel Antenna  
BSM2-A-M700-MPP-BRK



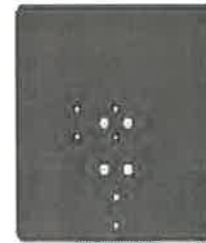
Solid 7.5x7.5  
BSM2-A-M407-MPP-BRK



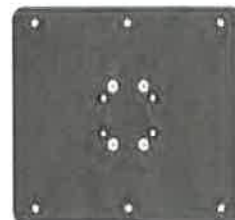
BKT-11 QUAD and MPU3  
BSM2-A-M811-BKT-BRK



GDV6 eNode B  
BSMU-A-M411-EN6-BRK



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



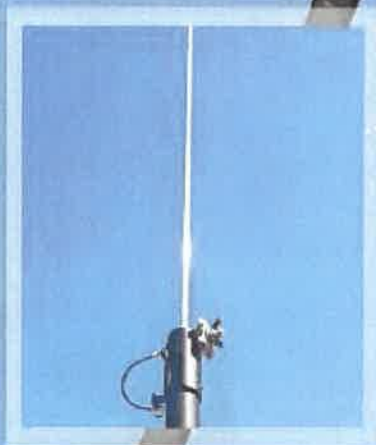
C2M2 Transceiver  
BSMU-A-M525-C2M-BRK

**BLUESKY MAST**<sup>®</sup>  
*elevating solutions*<sup>SM</sup>

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## Certified Grounding & Lightning Protection

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



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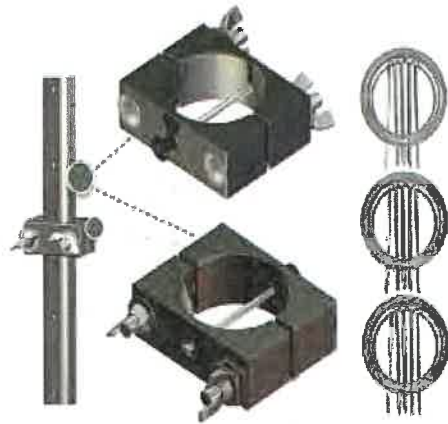
**BLUESKY MAST**  
elevating solutions<sup>SM</sup>

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## Certified Grounding & Lightning Protection

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

GROUNDING



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



LIGHTNING PROTECTION



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



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# **BLUESKY MAST**<sup>®</sup>

*elevating solutions*<sup>SM</sup>

BlueSky Mast Inc

1515 Gunn Hwy

Odessa, FL 33556

USA

Phone: 877-411-6278

FAX: 866-411-6278

[sales@blueskymast.com](mailto:sales@blueskymast.com)

[www.BlueSkyMast.com](http://www.BlueSkyMast.com)

Cage Code: 3JWX5

DUNS Number: 137469404

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