

# OPERATION MANUAL



## **GloBug SERIES GB3LEDC LIGHTING SYSTEM SERIAL NO. G4400001 AND ABOVE**

Revision #2 (07/11/25)



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



**THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.**

## FUEL CHEMICAL WARNING

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 **WARNING** 

Gasoline engine exhaust and some of its constituents are known to cause cancer, birth defects and other reproductive harm.

# Certificate



Certificate no.

CA 72150324 01

**License Holder:**  
LIGHT BOY CO., LTD.  
2-6-14 Kurigi, Asao  
KAWASAKI, KANAGAWA 215-0033  
JAPAN

**Manufacturing Plant:**  
F-Tec Corp  
2-6-14 Kurigi, Asao  
KAWASAKI, KANAGAWA 215-0033  
JAPAN

**Test report no.:** USA-SS 17044753 001      **Client Reference:** Satomi Kugimiya  
**Tested to:** C22.2 NO. 12-1982+GI1+GI2+GI3+GI4+GI5 (R2013)  
CAN/CSA-C22.2 NO. 250.13-14

**Certified Product:** Portable LED Worklights, GB3LED series      **License Fee - Units**

**Model Designation:** GB3LED, GB3LEDB, GB3LEDC, GB3LEDH, GB3LEDS      7

**Rated Voltage:** AC 120V, 60Hz  
**Rated Power:** 320W

**Appendix:** 1, 1-3

7

**Licensed Test mark:**



**Date of Issue**  
(day/mo/yr)  
20/05/2015

TUV Rheinland of North America, Inc., 12 Commerce Road, Newtown, CT 06470, Tel. (203) 426-0888 Fax. (203) 426-4000

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**NOTICE**  
Specifications and part numbers are subject to change without notice.

# SAFETY INFORMATION


Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.





## SAFETY MESSAGES

The four safety messages shown below will inform you about potential hazards that could injure you or others. The safety messages specifically address the level of exposure to the operator and are preceded by one of four words: **DANGER**, **WARNING**, **CAUTION** or **NOTICE**.

## SAFETY SYMBOLS



 <b>DANGER</b>
Indicates a hazardous situation which, if not avoided, <b>WILL</b> result in <b>DEATH</b> or <b>SERIOUS INJURY</b> .

 <b>WARNING</b>
Indicates a hazardous situation which, if not avoided, <b>COULD</b> result in <b>DEATH</b> or <b>SERIOUS INJURY</b> .

 <b>CAUTION</b>
Indicates a hazardous situation which, if not avoided, <b>COULD</b> result in <b>MINOR</b> or <b>MODERATE INJURY</b> .

<b>NOTICE</b>
Addresses practices not related to personal injury.

Potential hazards associated with the operation of this equipment will be referenced with hazard symbols which may appear throughout this manual in conjunction with safety messages.

Symbol	Safety Hazard
	Burn hazards
	Electric shock hazards

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Symbol	Safety Hazard
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# SAFETY INFORMATION

## GENERAL SAFETY

### CAUTION

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.



- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when under medication.



- **NEVER** operate this equipment under the influence of drugs or alcohol.

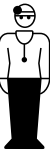


- **ALWAYS** check the equipment for loosened threads or bolts before starting.

- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.

### NOTICE

- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- **NEVER** use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **ALWAYS** know the location of the nearest fire extinguisher.
- **ALWAYS** know the location of the nearest first aid kit.
- **ALWAYS** know the location of the nearest phone or **keep a phone on the job site**. Also, know the phone numbers of the nearest **ambulance, doctor and fire department**. This information will be invaluable in the case of an emergency.



# SAFETY INFORMATION

## LIGHTING SYSTEM SAFETY

### WARNING

- **NEVER** disconnect any **emergency or safety devices**. These devices are intended for operator safety. Disconnection of these devices can cause **severe injury, bodily harm or even death**. Disconnection of any of these devices will void all warranties.

### CAUTION

- **NEVER** attempt service on a running machine.

### NOTICE

- To prevent the lighting system from overturning, **NEVER** use in winds that exceed 25 mph (11 m/s).
- **ALWAYS** keep the lighting system in proper running condition.
- Fix damage to lighting system and replace any broken parts immediately.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.

## LAMP SAFETY

### WARNING

- **NEVER** attempt to replace lamp with the power on. Always unplug the power cord from the generator or power source when changing the lamp.
- **ALWAYS** allow a sufficient amount of time for the lamp to **cool** before changing. The possibility exists of severe burns.

### CAUTION

- **NEVER** use force when installing the lamp. Excessive force could cause the lamp to break, causing bodily harm.

### NOTICE

- **ALWAYS** make sure lamp surface is clean and dry.
- **ALWAYS** replace with MQ recommended type lamp. See parts section of this manual.
- **ALWAYS** have a **trained technician** to install and remove lamp or replace any damaged fixture wiring.

# SAFETY INFORMATION

## BALLOON SAFETY

### CAUTION

- **ALWAYS** keep the balloon away from sharp objects.

### NOTICE

- **DO NOT** place the balloon inside its protective cover until the LED lamp assembly has cooled down.
- **ALWAYS** place the balloon inside its protective cover after each use. This will prolong the life of the balloon material, keeping it protected from harsh environmental elements.
- Replace balloon immediately if punctured or severely damaged. A damaged balloon will not inflate properly.
- **DO NOT** use excessive force when zipping and unzipping the balloon. Be gentle with the zipper mechanism. If the zipper is broken, the balloon will become unusable.

## GENERATOR SAFETY

If using a generator to power lighting system, refer to applicable generator manual safety information section.



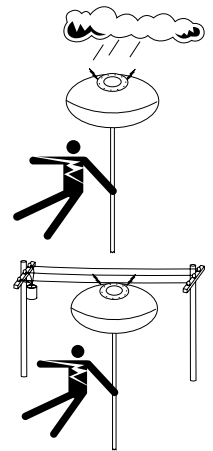
## ELECTRICAL SAFETY

### DANGER

- Lighting system is equipped with a ground pin on the power plug. For your protection, **ALWAYS** complete the grounding path. **NEVER** insert the AC power plug into a 2-prong receptacle to operate lighting system.

When applying power to the lighting system, **ALWAYS** connect the AC power plug to a 3-prong receptacle that is grounded. The possibility exists of **electrical shock, electrocution and even death** if the lighting system is not grounded.

- **NEVER** operate lighting system or handle any electrical equipment while standing in water, while barefoot, while hands are wet or in the rain. A dangerous **electrical shock** could occur, causing **severe bodily harm or even death**.
- **ALWAYS** make sure the area above the lighting system is open and clear of overhead power lines and other obstructions. Contact with overhead power lines or other obstructions could result in equipment damage, **electrical shock, electrocution and even death**.

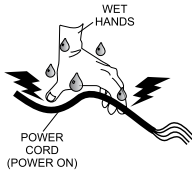


# SAFETY INFORMATION

## Power Cord/Cable Safety

### DANGER

- **NEVER** let power cords or cables **lay in water**.
- **NEVER** use **damaged** or **worn** cables or cords. Inspect for cuts in the insulation
- **NEVER** grab or touch a live power cord or cable with wet hands. The possibility exists of **electrical shock, electrocution or death**.
- Make sure power cables are securely connected. Incorrect connections may cause **electrical shock** and damage to the lighting system.



### NOTICE

- **ALWAYS** make certain that proper power or extension cord has been selected for the job. See Cable Selection Chart in this manual.

## LOADING AND UNLOADING

### Cart Type - No Lifting Hook

If lighting system is not equipped with a transport lifting hook and the mast is removable, refer to the following safety information.

- Before lifting, make sure that the mast and lamp are removed as described in the manual.
- The cart can be safely lifted by two persons to the transport vehicle.

## TRANSPORTING SAFETY

### NOTICE

- When transporting the lighting system, if applicable, always place in **stow position** and place mast in its carrying case.
- **ALWAYS** remove balloon/lamp assembly from the mast when transporting lighting system.
- **NEVER** leave the balloon/lamp exposed during transport.
- **ALWAYS** place balloon inside its protective cover during transport. Be sure the cover is secured tightly around the balloon/lamp assembly.

# SPECIFICATIONS

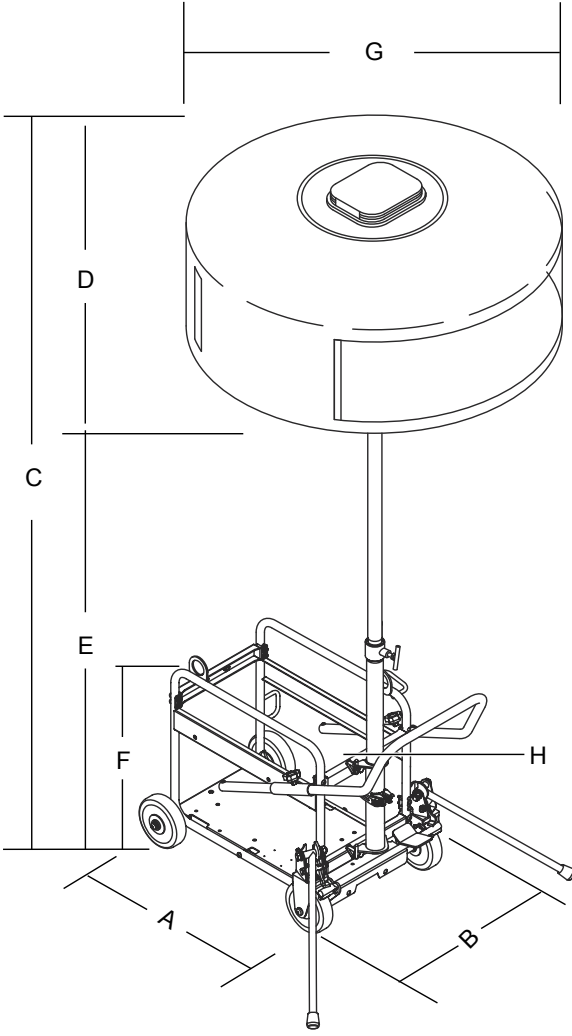
**Table 1. Specifications**

<b>Globug Lighting System</b>		
<b>Model</b>	GB3LEDC	
Input Voltage	120 VAC <sup>1</sup> ; 12, 24, 48 VDC <sup>2</sup>	
Frequency	50 Hz/ 60 Hz	
Max. Current	2.7 Amps (100V @300W)	
Weight	Balloon	18.74 lb (8.5 kg)
	Mast	4.9 lb (2.2 kg)
	Cart	57.3 lb (26 kg)
	Cable	1.1 lb (0.5 kg)
	Total	82.0 lb (37.2 kg)
Appropriate Generator	350 W and above	
<b>Lamp</b>		
Lamp Type	LED	
Dimming Control	3 Dimming Stages: 300W / 200W / 100W	
Total Luminous Flux (lm)	40000 @300 W	
	30000 @200W	
	16000 @100W	
Operation_Enabled Temperature Range	14 to 104°F (-10 to 40°C)	
<b>Mast</b>		
Mast Type	3-stage Telescopic Air-Assist	
Operation	Manual	
<b>Tires</b>	6-inch Dia. (150 mm) Puncture-Proof	
<b>Brakes</b>	Stepping Brake	

<sup>1</sup> - 90 to 240V are available by changing the appropriate power cable.

<sup>2</sup> - If cigarette plug cable (option) is used

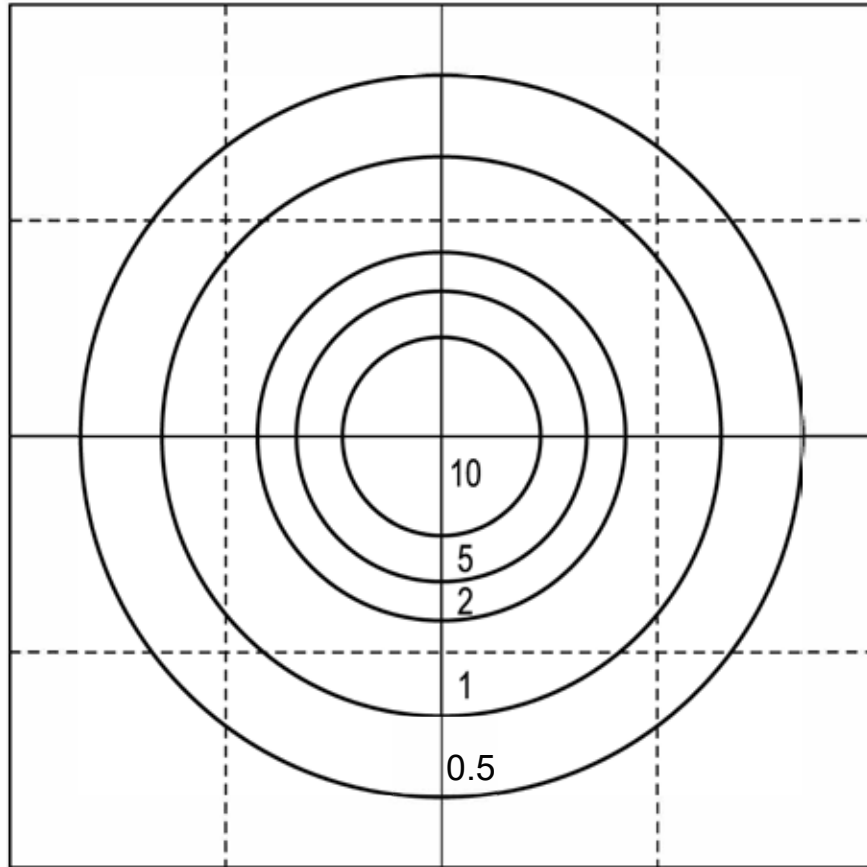
# DIMENSIONS



**Figure 1. Dimensions (GB3LEDC)**

Table 2. Dimensions		
Reference Letter	Description	Dimension in. (mm.)
A	Cart Length	30 in. (760 mm.)
B	Cart Width	20.1 in. (510 mm.)
C	Total Max. Height (with Standard Balloon)	119.5 in. (3035 mm.)
D	Standard Balloon Height	23.6 in. (600 mm.)
E	Mast Height (without Balloon)	88.4 - 124.2 in. (2245 - 3155 mm.)
F	Cart Height	27.8 in. (705 mm)
G	Standard Balloon Diameter	33.5 in. (850 mm)
H	Max. (optional) Generator Dimensions	21 x 12 x 18 in. (533 x 304 x 457 mm)

# ILLUMINATION RANGE



1 grid = 20 feet

Illuminance (Footcandle)	10	5	2.5	1	0.5
Diameter(Feet)	18.4	26.9	34.1	51.8	66.9

**Figure 2. Illumination Range (Foot Candles)**

# GENERAL INFORMATION

## GENERAL INFORMATION

The Multiquip GB3LEDC GloBug is a multi-purpose, cart mounted mobile glare-free lighting system. This unit supports common applications found on construction sites, emergency response, security, and special events.

## LIGHTING

This GloBug Lighting system is comprised of a diffused 300W LED Balloon assembly, and a compact mobile cart with a 3-stage telescopic mast.

The LED Balloon unit is comprised of a shock resistant, weatherproof LED unit that is supported by an integral electric ballast and fan assembly. This 300W LED GloBug has a maximum output of 40,000 lumens with a convenient 3-stage dimmer controller (100W / 200W / 300W) to aid in working environments where less light is preferred.

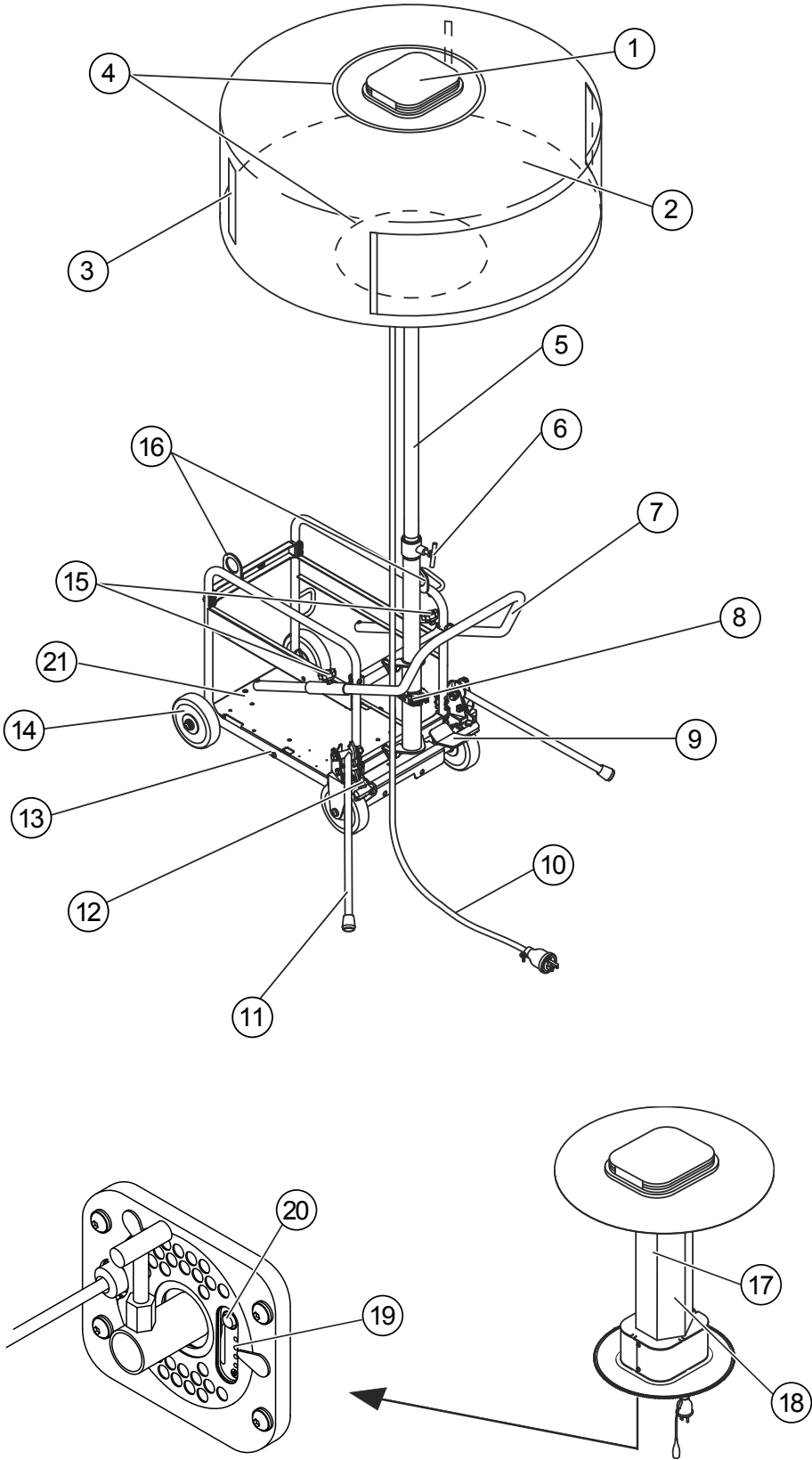
## MOBILE CART

The mobile cart is made from rugged zinc-plated steel tubing and provides puncture-proof tires, a mechanical brake, security straps for an optional generator, and outriggers for firm in-place stability. The cart is designed to support a very compact generator for application flexibility. The size of the generator would have to fit within the following dimensions: 21 X 12 X 18 inches.

The GB3LEDC can be powered by a variety of generators with an output of 350W or greater. If an extension cord is necessary, refer to Table 3 for gauge selection.

**Table 3. Extension Cord Gauge Selection**

Ampere Rating Range	Volts	Length of Cord in Feet								
	115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
	230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
0 - 2	18	18	18	16	16	14	14	12	12	
2 - 3	18	18	16	14	14	12	12	10	10	
3 - 4	18	18	16	14	12	12	10	10	8	
4 - 5	18	18	14	12	12	10	10	8	8	
5 - 6	18	16	14	12	10	10	8	8	6	
6 - 8	18	16	12	10	10	8	6	6	6	
8 - 10	18	14	12	10	8	8	6	6	4	
10 - 12	16	14	10	8	8	6	6	4	4	
12 - 14	16	12	10	8	6	6	6	4	2	
14 - 16	16	12	10	8	6	6	4	4	2	
16 - 18	14	12	8	8	6	4	4	2	2	
18 - 20	14	12	8	6	6	4	4	2	2	



**Figure 3. Major Components**

## COMPONENTS

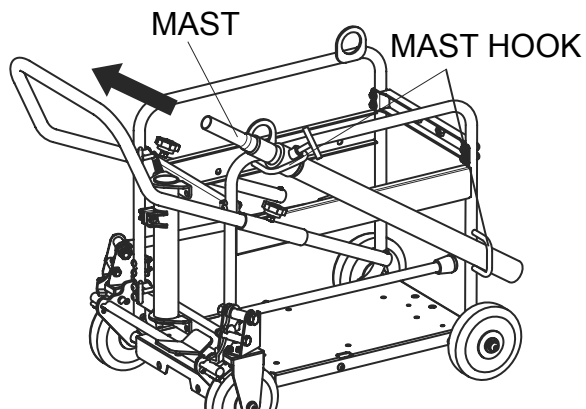
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Figure 3 shows the location of the components for the GloBug lighting system. The function of each component is described below:

1. **Balloon Cover** — Is a zippered, red vinyl bag that covers the 300W LED unit for storage. It collapses and secures atop the unit when setting up for operations.
2. **Balloon Bag** — This balloon is connected (zipped) to the top and bottom sections of the GloBug. It is made of a heat-resistant, weather-resistant polyester material. The balloon can be easily removed and washed with common washing detergents.
3. **Velcro Strips** — Two Velcro strips are connected to the balloon bag to support optional message strips (contact MQ Sales Department for information).
4. **Zippers** — two zippers (top/bottom) secure the balloon bag to the 300W LED unit.
5. **Mast** — Three-stage telescopic mast. Maximum mast height is 9.95 ft. (3.03 meters). When raising the mast, always be on the lookout for overhead obstructions.
6. **Mast Bolt** — Loosen to raise mast and tighten to keep the mast in place when raised to the desired height.
7. **Handle** — Moves the GB3LEDC in either forward or reverse direction by pulling back or pushing forward.
8. **Mast Clamp** — Secures the mast to the cart. Tighten securely to prevent movement.
9. **Brake Pedal** — Step on the lower side of pedal to apply brakes. To release the brakes, step on the upper side of the pedal.
10. **AC Power Cables** — This power cable connects to a 12VAC power source. A convenient, optional car cigarette lighter plug cable is available for car battery operations (100W only). Contact MQ Parts Department for Part No. A300301402.
11. **Outriggers** — Provides stability to the GB3LEDC. When raising the mast, outriggers should always be deployed.
12. **Weight (Outriggers)** — Locks outriggers in place when deployed or stowed.
13. **Cart** — Supports the 3-stage mast and GloBug unit. Provides a protective cage to support an optional generator.
14. **Tire** — The GB3LEDC uses four puncture-proof tires.
15. **Handle Knob** — Locks the handle in place when deployed or stowed.
16. **Lifting Hook** — Use to lift cart with forklift.
17. **LED Lamp Guard** — This heat-resistant guard provides vibration and weather protection to the LED chip assemblies.
18. **Lamp** — Comprised of LED lamps. The lamps have three stages of brightness: 300W, 200W, and 100W.
19. **Indicator Lamp** — Lights red to indicate current lamp mode (Off, 100W, 200W, 300W).
20. **Dimming Control Switch** — Press to control the brightness of the lamp.
21. **Optional Generator** — The cart is designed to support a very compact generator for application flexibility. The size of the generator would have to fit within the following dimensions: 21 X 12 X 18 inches.

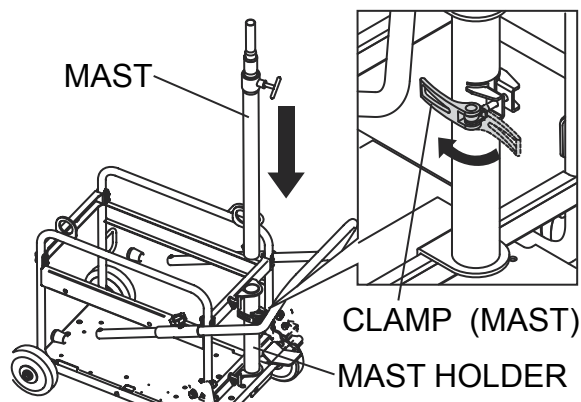
## MAST INSTALLATION

1. Place the cart on a flat surface. Remove mast from the mast hook.



**Figure 4. Unhooking Mast**

2. Insert the mast into the mast holder and tighten the clamp to lock the mast in place.



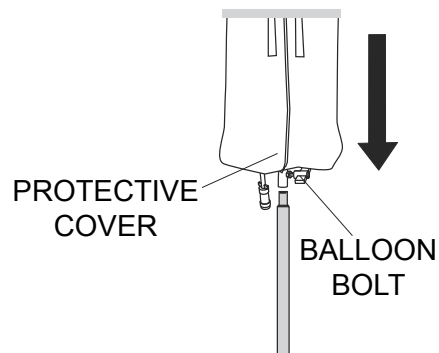
**Figure 5. Mast Installation**

### **CAUTION**

Make sure that the clamp is tightened securely and the mast is completely locked. A loose mast may drop and cause damage or injury.

## BALLOON ASSEMBLY PLACEMENT

1. Place balloon assembly (Figure 6) onto mast and tighten balloon bolt.

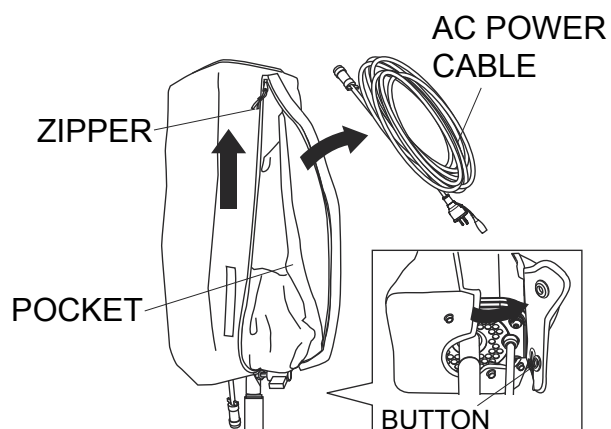


**Figure 6. Light Assembly Placement**

### **CAUTION**

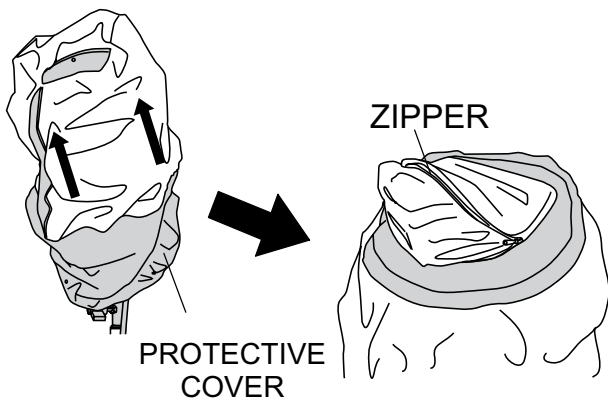
Make sure that the balloon bolt is tightened securely. If loose, light assembly may drop and damage equipment or cause injury.

2. Unsnap the three buttons on the bottom of the balloon. Expose the balloon by pulling down on the velcro tab and unzip the protective cover as shown in Figure 7. Also remove the AC power cable at this time.



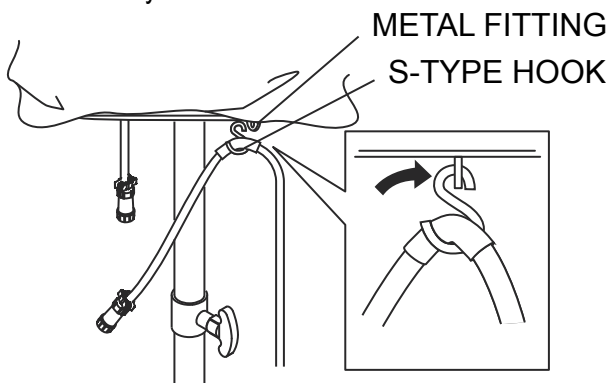
**Figure 7. Removing Balloon/AC Power Cable**

- Next, fold the protective cover (Figure 8) into itself and zip.



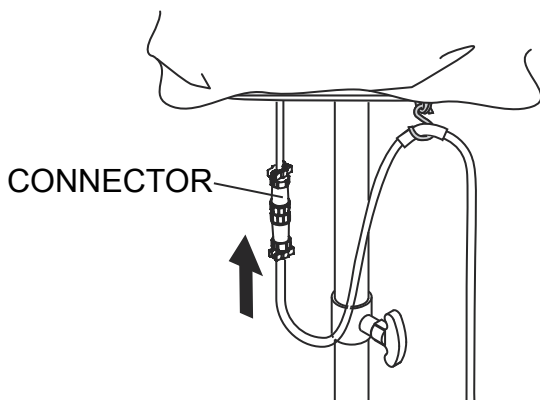
**Figure 8. Folding Protective Cover**

- Attach the S-type hook (Figure 9) on the AC power cable onto the metal fitting on the bottom of the light assembly.



**Figure 9. Securing Power Cable**

- Connect the power cable to the connector on the balloon assembly (Figure 10). Make sure connector is tightened securely.



**Figure 10. Connecting Power Cable**

## ⚠ CAUTION

Make sure that the dimming control switch is in the OFF position when connecting or disconnecting the power cable.

## RAISING THE MAST

## ⚠ DANGER

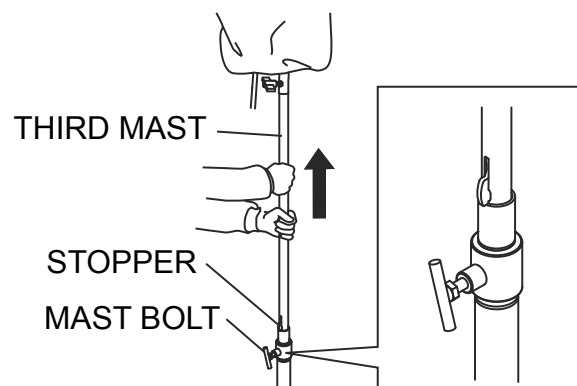


When raising mast, **ALWAYS** be on the lookout for overhead obstructions such as high voltage power lines. The possibility exists of electrocution, even death, if the lighting system comes in contact with high voltage power lines.

## ⚠ CAUTION

When raising or lowering the mast, pay close attention that your fingers do not get caught or pinched between the masts.

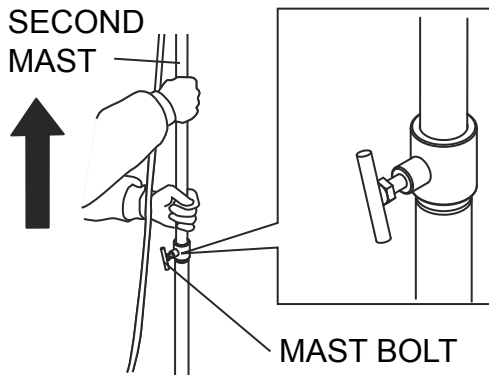
- Before raising the mast, make sure the mast bolt (Figure 11) is securely tightened. This will prevent the light assembly from falling off.



**Figure 11. Raising the Third Mast**

- Pull up the third mast (Figure 11) until the stopper locks it in place.

- Loosen the mast bolt and pull up the second mast to the desired height (Figure 12).

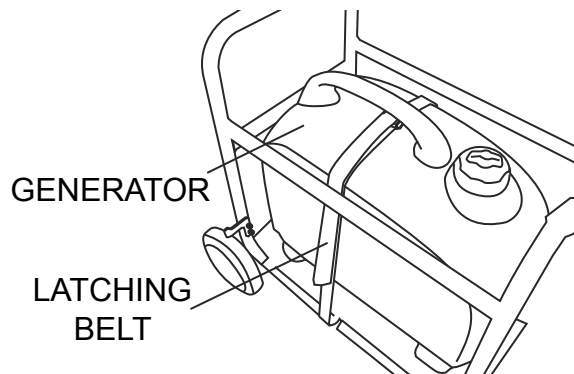


**Figure 12. Raising the Second Mast**

- Tighten mast bolt.

## SECURING THE GENERATOR

- When using a generator to power the unit, secure the generator by wrapping the lashing belt around it (Figure 13).
- Tighten the belt securely.



**Figure 13. Securing the Generator**

### **⚠ CAUTION**

When **not** using a generator to power the unit, place a weight of approximately 44 lbs (20 kg) in its place and secure with the lashing belt, to prevent cart from overturning.

## OUTRIGGER DEPLOYMENT

### **CAUTION**

Make sure that outriggers are deployed before operating the unit, to prevent damages or injury from cart overturning. In windy conditions or when necessary, secure the cart with ropes or crossties for additional stability.

1. Pull out outriggers on both sides of the cart until they are firmly set on the ground. (Figure 14).

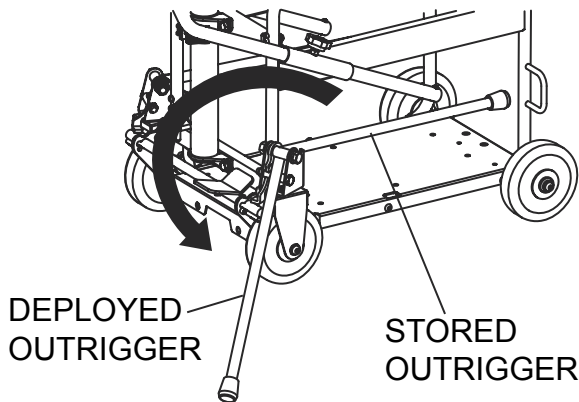


Figure 14. Outrigger Deployment

## HANDLE ADJUSTMENT

1. Loosen knobs located on both sides of the handle.

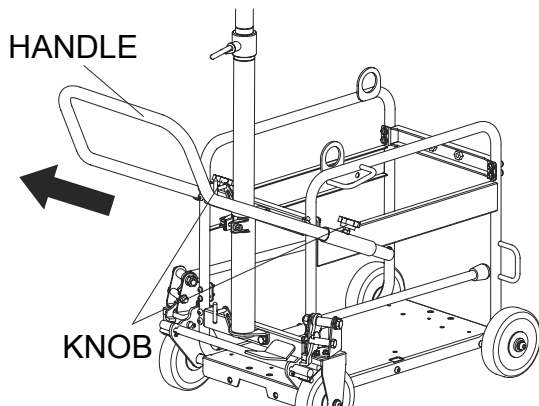


Figure 15. Handle Adjustment

2. Pull out handle completely and tighten the knobs.
3. The cart can be moved forward by pushing handle and backward by pulling handle.

## APPLYING POWER

4. Connect the AC power cable to the 120 VAC receptacle on the generator used. See Figure 16.

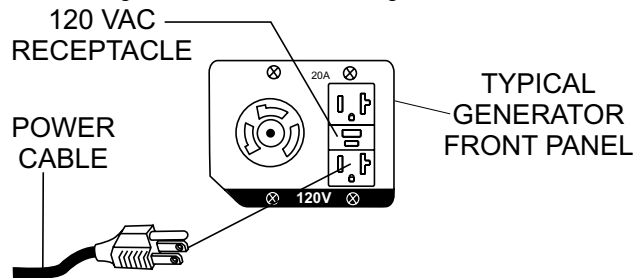


Figure 16. Connecting to Power Source

5. Start the generator as indicated in the generator manual.
6. Turn on the power of the generator. The balloon will start to inflate and the lamp will turn on at 300 W.

## DIMMING THE LAMP

1. Press the dimmer switch to control the brightness of the lamp (Figure 17). The lamp can be turned off or set to 100W, 200W, 300W. The corresponding LED will light red when selected (Figure 18).

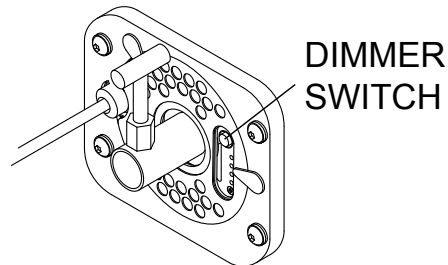


Figure 17. Dimmer Switch

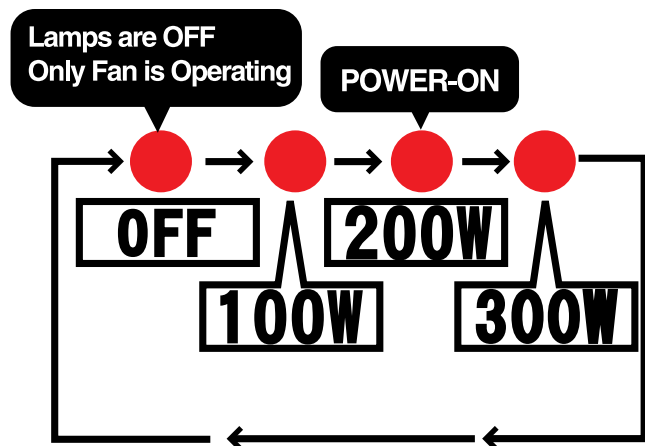


Figure 18. Brightness LED Indicators

- Zip up the bottom of the balloon completely after use of the dimmer switch.

## SILENT MODE

Noise coming from the unit during operation can be eliminated.

- Press and hold the dimmer switch (Figure 17) for 2 seconds. The blue LED in the center of the switch will flash when in silent mode.
- To switch back to normal mode, press and hold the dimmer switch for 3 seconds. The blue LED will stop flashing.

### NOTICE

The brightness of the lamp can still be adjusted when in silent mode.

When unit is restarted, it will revert to normal mode even if silent mode was selected prior to shutdown.

## SHUTDOWN

- Turn off the power switch of the generator. The balloon should start to deflate and the lamp will turn off.
- Disconnect the AC power cable from the generator.

## CIGARETTE LIGHTER CABLE (OPTION)

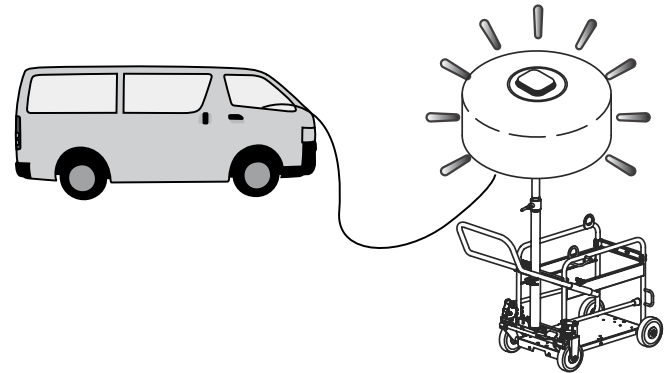
An optional cigarette lighter cable (P/N A300301402) can be used to connect to the cigarette lighter receptacle in a vehicle for power.

- Disconnect the AC Power Cable from the unit and connect the cigarette lighter cable in its place.
- Make sure the vehicle is in idle mode.

### NOTICE

Do not connect to the vehicle while the engine is on.

- Connect the other other end of the cigarette lighter cable to the cigarette lighter receptacle in the vehicle (Figure 19). The lighting system will automatically adjust to 100W when DC power is used.



**Figure 19. DC Power Source**

- If the vehicle battery is about to be discharged, the lamp would blink then will automatically turn off. If this happens, make sure that the cigarette lighter cable is unplugged from the vehicle. Only plug it back again when battery is replaced with a properly charged one.

### NOTICE

If the voltage from the vehicle battery goes below 11 V, the lighting system may not start properly. Unplug cable and wait a few seconds before plugging it back in.

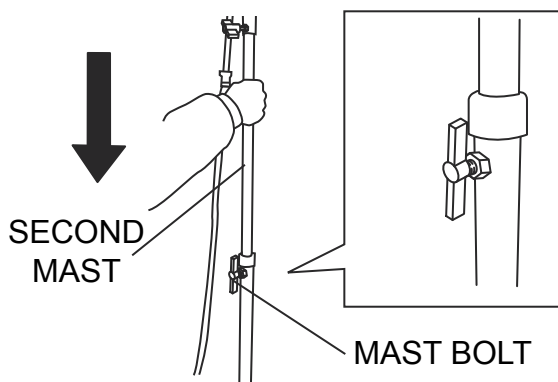
## STORAGE

### **CAUTION**

When raising or lowering the mast, pay close attention that your fingers do not get caught or pinched between the masts.

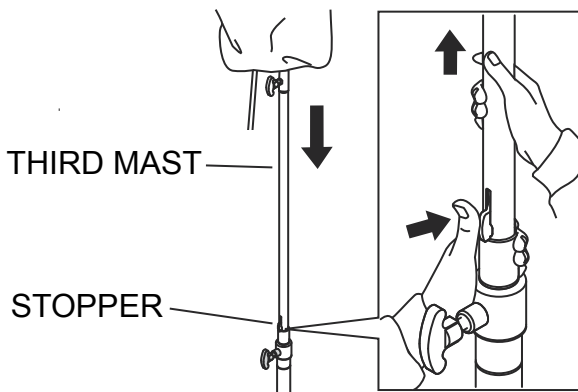
### Lowering Masts

1. Loosen the mast bolt and pull the second mast all the way down (Figure 20). The mast is designed to drop slowly.



**Figure 20. Lowering the Second Mast**

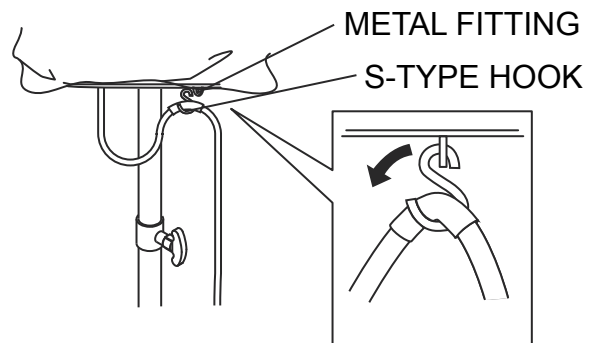
2. Pull up third mass slightly and press the stopper to release. Lower third mast (Figure 21).



**Figure 21. Lowering the Third Mast**

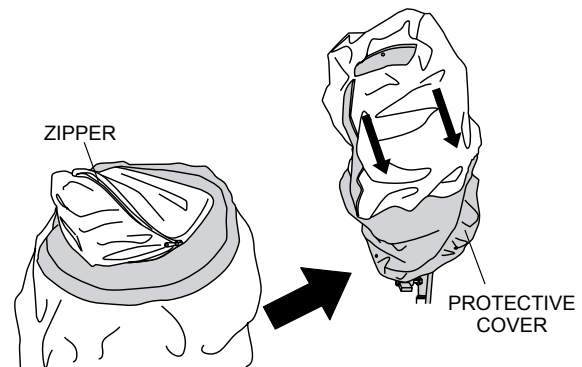
### Balloon Storage

1. Remove the S-hook from the metal fitting (Figure 22).



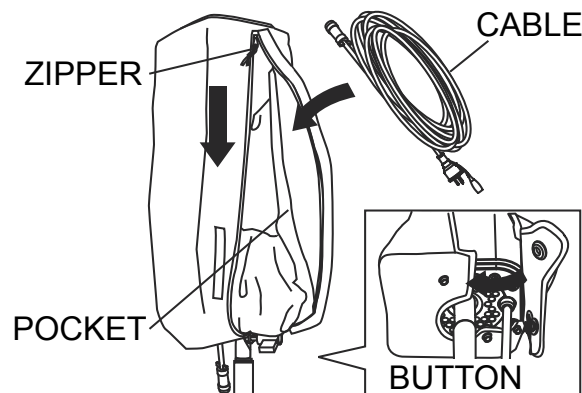
**Figure 22. Power Cable Removal**

2. Unzip the zipper on the protective cover (Figure 20), and pull down cover over balloon/lamp assembly.



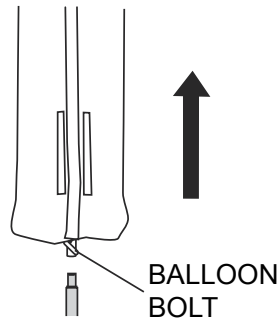
**Figure 23. Unzipping the Protective Cover**

3. Store power cable inside pocket of protective cover (Figure 24). Zip up the protective cover and snap the buttons on the bottom of the cover.



**Figure 24. Zipping the Protective Cover**

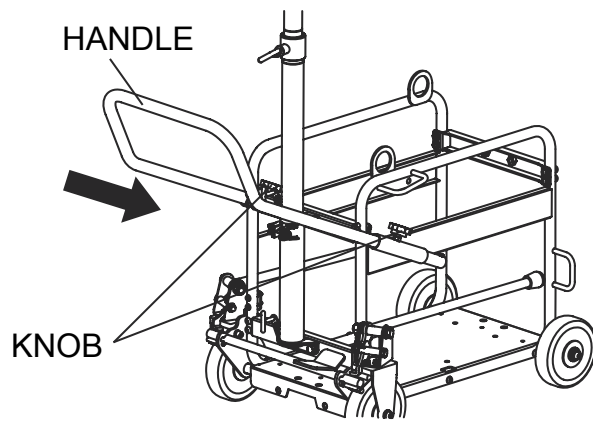
- Loosen the balloon bolt by turning counterclockwise and lift balloon assembly from mast (Figure 25).



**Figure 25. Removing Balloon Assembly**

## Handle Storage

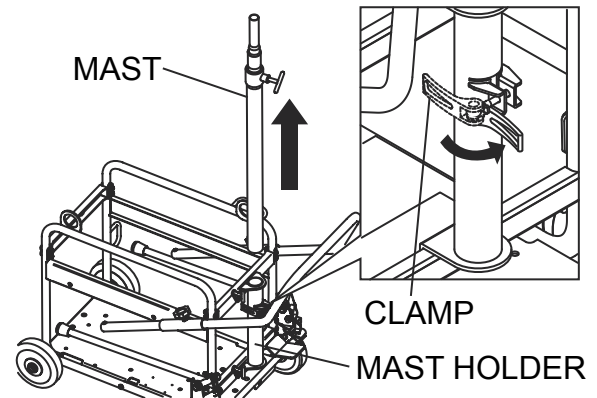
- Loosen knobs on both side of the handle. Push the handle all the way in (Figure 26).



**Figure 26. Handle Storage**

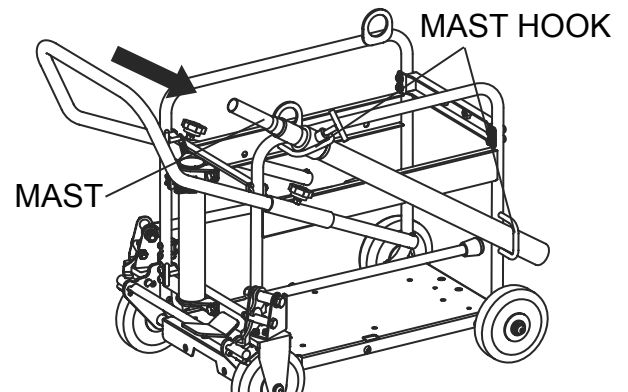
## Mast Storage

- Unlock the clamp and remove the mast from the mast holder (Figure 27).



**Figure 27. Detaching Mast**

- Insert the mast on the mast hooks on the cart to store (Figure 28).



**Figure 28. Mast Storage**

## REPLACING THE LAMP

### NOTICE

Contact Multiquip Technical Support Department for assistance in replacing LED lamps.

## REPLACING BALLOON ENVELOPE

1. Unzip the zipper (Figure 29) at the top and bottom of the balloon envelope (cover).

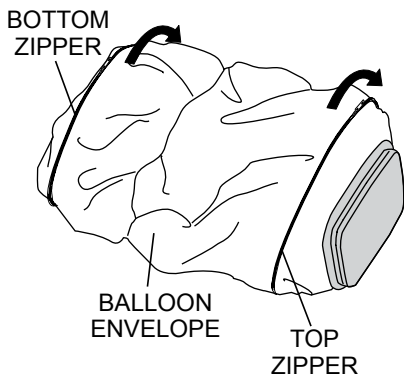


Figure 29. Unzipping the Balloon Envelope

2. Slide the old or worn balloon envelope (Figure 30) over the top of the lamp guard assembly.

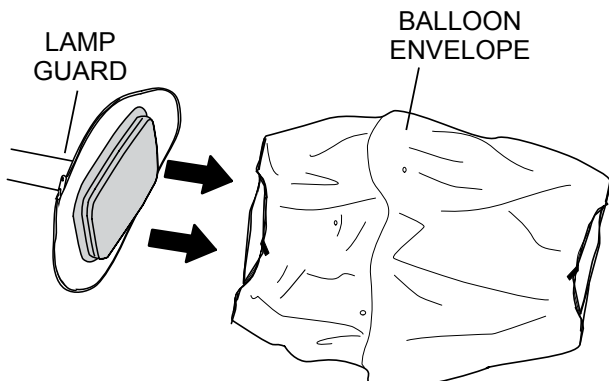


Figure 30. Removing the Balloon Envelope

3. Slide the new balloon (Figure 31) envelope over the top of the lamp guard assembly.

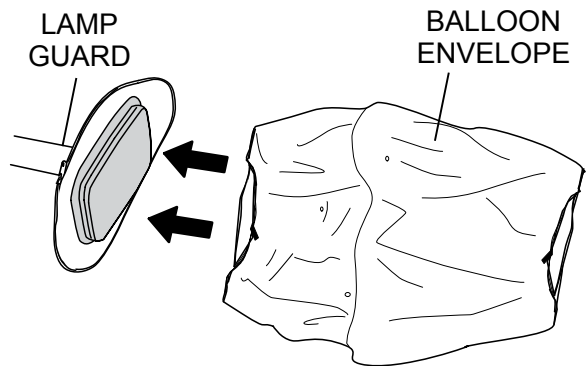


Figure 31. Installing New Balloon Envelope

4. Zip up the zipper (Figure 32) at the top and bottom of the balloon envelope (cover).

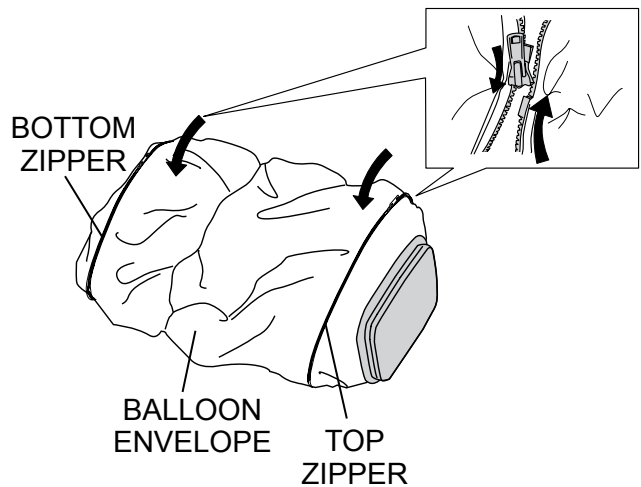
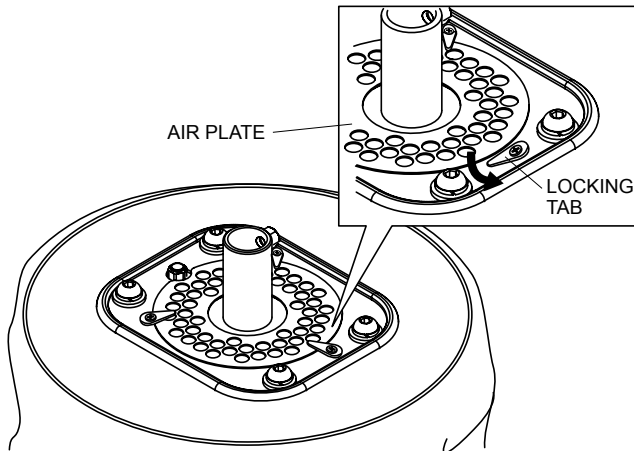


Figure 32. Zipping the Balloon Envelope

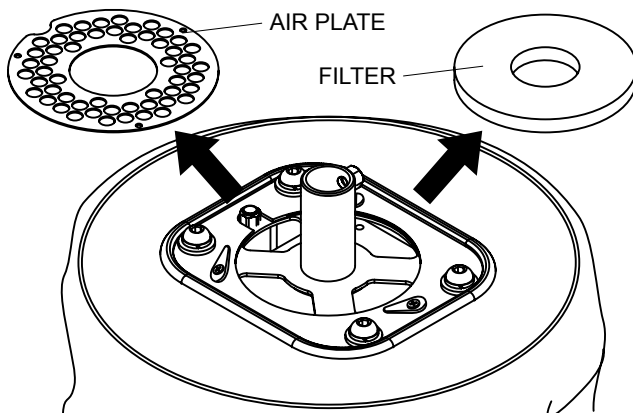
## FILTER REPLACEMENT

1. Remove the balloon as described in the STORAGE section.
2. Turn the balloon/lamp assembly upside down to access the filter. See Figure 33.



**Figure 33. Accessing Filter**

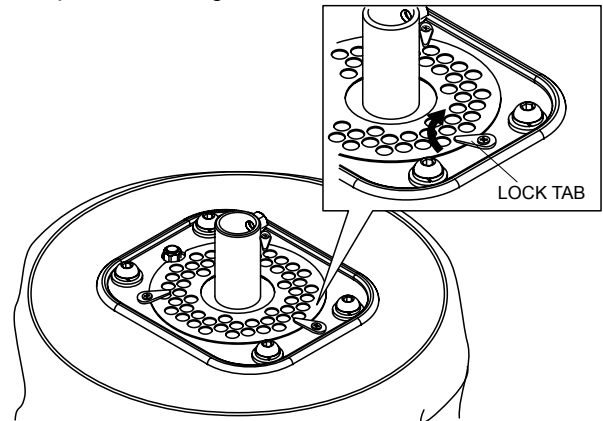
3. Turn the three locking tabs outwards to release the air plate. See Figure 33.
4. Remove the air plate and filter. See Figure 34.



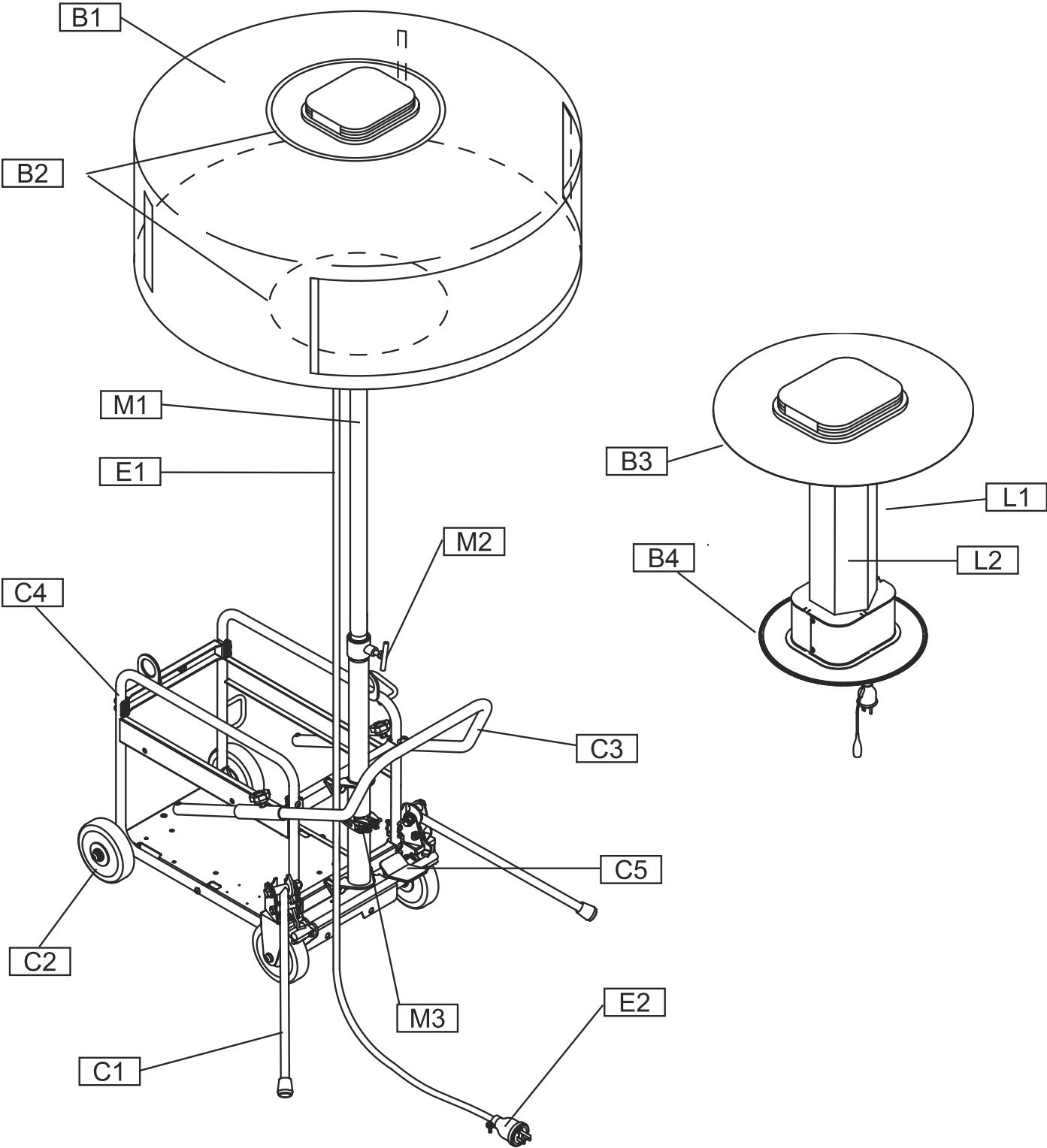
**Figure 34. Filter Removal**

5. Install a new filter and reinstall the air plate.

6. Turn the three locking tabs inwards to lock the air plate in place. See Figure 35.



**Figure 35. Locking Air Plate**



**Figure 36. Maintenance Check Points**

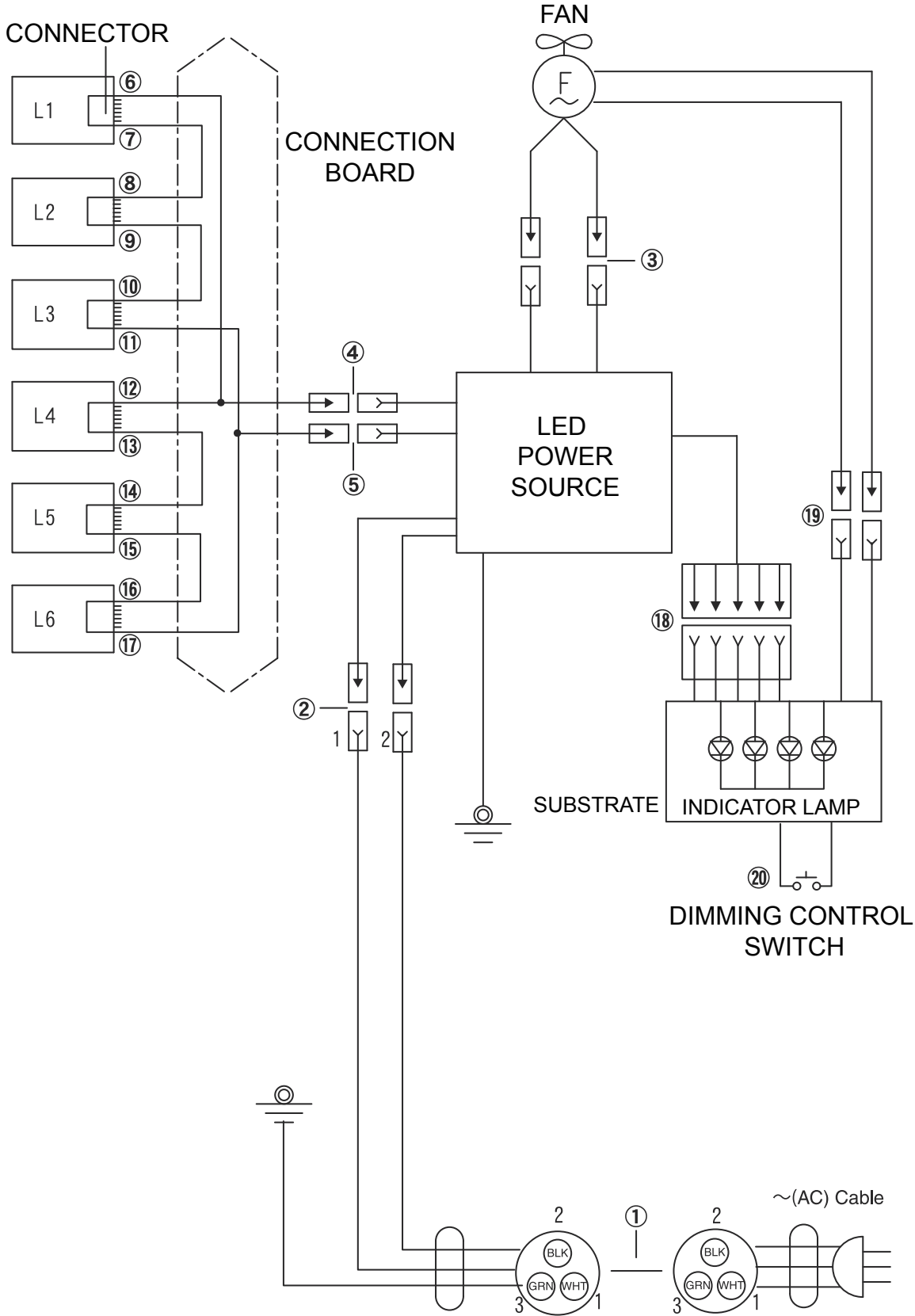
# MAINTENANCE

For a prolonged life cycle an extended quality follow the recommended GloBug lighting system service guidelines as referenced in Figure 36 and Table 4.

**Table 4. Periodic Check and Maintenance**

Figure		Part	Check Item	Solution	
Lamp	L1	Lamp Guard	Dirty, rusty or damaged?	Clean/Replace	▲
	L2	LED Lamp	Defective or broken?	Replace	●
Balloon	B1	Balloon (Envelope)	Ripped or dirty?	Replace	●
	B2	Zipper	Broken?	Replace	●
	B3	Fan Motor (Blower)	Not working properly?	Replace	■
	B4	T-Handle bolt (Balloon)	Broken?	Replace	●
Mast	M1	Mast	Damaged or not working properly?	Replace	◆
	M2	Bolt	Damaged	Replace	◆
	M3	Clamp	Damaged	Replace	●
Electric	E1	Power Cable	Defective or worn cable?	Replace.	●
	E2	Plug	Damaged?	Replace	◆
Cart	C1	Outrigger	Damaged or not working properly?	Replace	■
	C2	Tire	Friction on Notch?	Replace	◆
	C3	Handle	Damaged or not working properly?	Replace	■
	C4	Frame	Damaged or not working properly?	Replace	■
	C5	Brake	Damaged or not operating smoothly?		●
● - Daily Check    ◆ - Every 20 Hours    ■ -Every 100 Hours    ▲ - Every 500 Hours					

# WIRING DIAGRAM



**Figure 37. Electrical Wiring Diagram**

# TROUBLESHOOTING

Troubleshooting		
Symptom	Possible Problem	Solution
Lamp does not light.	Is plug connected?	Plug in correctly.
	Is generator's main switch turned off?	Turn on switch.
	Are any wire cables disconnected?	Connect disconnected wire cable.
	Are any other electric appliances (other than light tower) plugged into power source?	Unplug all other appliances.
	Is generator voltage not normal (standby voltage - $100 \pm 5$ V)?	Use proper voltage.
Balloon is not inflating.	Is zipper unzipped?	Zip balloon completely.
	Is fan motor not properly operating?	Inspect and repair fan motor if necessary.
	Is balloon torn?	Repair balloon.

# OPERATION MANUAL

## HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL  
NUMBER ON-HAND WHEN CALLING

### UNITED STATES

#### *Multiquip Inc.*

(310) 537- 3700  
6141 Katella Avenue Suite 200  
Cypress, CA 90630  
E-MAIL: [mq@multiquip.com](mailto:mq@multiquip.com)  
WEBSITE: [www.multiquip.com](http://www.multiquip.com)

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### CANADA

#### *Multiquip*

(450) 625-2244  
4110 Industriel Boul.  
Laval, Quebec, Canada H7L 6V3  
E-MAIL: [infocanada@multiquip.com](mailto:infocanada@multiquip.com)

### UNITED KINGDOM

#### *Multiquip (UK) Limited Head Office*

0161 339 2223  
Unit 2, Northpoint Industrial Estate, Globe Lane,  
Dukinfield, Cheshire SK16 4UJ  
E-MAIL: [sales@multiquip.co.uk](mailto:sales@multiquip.co.uk)

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