# **OPERATION AND PARTS MANUAL**



# GloBug SERIES GB8LED LIGHTING SYSTEM

Revision #0 (03/09/15)

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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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#### **NOTICE**

Specifications and part numbers are subject to change without notice.

#### PARTS ORDERING PROCEDURES

# Ordering parts has never been easier! **Choose from three easy options:**

Effective: January 1st, 2006



#### lest Deall S Order via Internet (Dealers Only):

Order parts on-line using Multiquip's SmartEquip website!

- View Parts Diagrams
- Order Parts
- Print Specification Information



If you have an MQ Account, to obtain a Username and Password, E-mail us at: parts@multiquip.

To obtain an MQ Account, contact your District Sales Manager for more information.

Goto www.multiquip.com and click on Order Parts to log in and save!

Use the internet and qualify for a 5% Discount on Standard orders for all orders which include complete part numbers.3

Note: Discounts Are Subject To Change



#### Order via Fax (Dealers Only):

All customers are welcome to order parts via Fax. Domestic (US) Customers dial:

1-800-6-PARTS-7 (800-672-7877)

Fax your order in and qualify for a 2% Discount on Standard orders for all orders which include complete part numbers.\*

Note: Discounts Are Subject To Change



Order via Phone:

Domestic (US) Dealers Call:

1-800-427-1244

#### **Non-Dealer Customers:**

Contact your local Multiquip Dealer for parts or call 800-427-1244 for help in locating a dealer near you.



International Customers should contact their local Multiquip Representatives for Parts Ordering information.

# When ordering parts, please supply:

- **Dealer Account Number**
- **Dealer Name and Address**
- Shipping Address (if different than billing address)
- **Return Fax Number**
- **Applicable Model Number**
- **Quantity, Part Number and Description of Each Part**
- **Specify Preferred Method of Shipment:** 
  - ✓ UPS/Fed Ex
- ✓ DHL Priority One ✓ Truck
  - Ground
  - Next Day
  - Second/Third Day

#### **NOTICE**

All orders are treated as Standard Orders and will ship the same day if received prior to 3PM PST.





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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



#### **DANGER**

Indicates a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY.



#### WARNING

Indicates a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.



#### **CAUTION**

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE INJURY**.

#### **NOTICE**

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		
antillinhlin.	Burn hazards		
才	Electric shock hazards		

#### **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.









#### 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).
- The lighting system should only be used in temperatures between 14° to 104°F (10° to 40° C). Failure to comply with these operating parameters could cause the lamp to malfunction and shorten the ballast life.
- 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.

#### **NOTICE**

- **NEVER** leave any grease or oil residue on lamp surface when replacing or removing lamp. This can create hot spots, reducing the service life of the lamp.
- ALWAYS make sure lamp surface is clean and dry.
- **ALWAYS** replace with MQ recommended type lamp. See parts section of this manual.
- If applicable, **ALWAYS** make sure the lamp guard is installed correctly. **NEVER** deform the lamp guard.
- **NEVER** unplug the lamp's AC power cable during operation.
- ALWAYS have a trained technician to install and remove lamp or replace any damaged fixture wiring.

#### TRANSPORTING SAFETY

#### NOTICE

- When transporting the pentapod lighting system, if applicable, always place in **stow position** and place pentapod in its carrying case.
- ALWAYS remove balloon/lamp assembly from the mast when transporting lighting system. This will prevent damage to the bulb due to vibration.
- NEVER leave the balloon/lamp exposed during transport. Exposure to excess wind or rain could damage the balloon's nylon cover.
- ALWAYS place balloon inside its protective cover during transport. Be sure the cover is secured tightly around the balloon/lamp assembly.

#### **BALLOON SAFETY**

#### **CAUTION**

■ ALWAYS keep the balloon away from sharp objects and excessive amounts of heat.

#### NOTICE

- To prevent balloon deformation, **NEVER** use lighting system in strong winds.
- DO NOT place the balloon inside its protective cover until the lamp has had a sufficient amount of time to cool down. This will prevent the balloon's nylon cover from being burned (touching the lamp surface).
- 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 damaged. A damaged balloon will not inflate properly, and may become more damaged by touching the hot lamp surface.
- 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.

#### MAST SAFETY

#### **CAUTION**

- When raising or lowering the mast, keep[ hands and fingers clear of the various mast sections, this will prevent hands and fingers from getting pinched.
- **NEVER** attach anything to the mast.
- ALWAYS lower the mast when not in use, or if high winds or electrical storms are expected in the area.

#### **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.





### **Power Cord/Cable Safety**

PINCH

POINT

#### **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.

# **SPECIFICATIONS**

Table 1. Specifications				
Globug Lighting System				
Model		GB8LED		
Input Volta	age	120 VAC		
Frequenc	У	50 Hz/ 60 Hz		
Max. Curr	ent	6.9 Amps (120V @800 W)		
	Lamp Fixture	24.70 lb (11.2 kg)		
	Mast	4.85 lb (2.2 kg)		
Mojaht	Pentapod	18.70 lb (8.5 kg)		
Weight	Storage Case	1.54 lb (0.7 kg)		
	Cable	1.54 lb (0.7 kg)		
	Total	51.33 lb (23.3 kg)		
Appropriate Generator		850 W and above		
Lamp				
Lamp Typ	е	LED		
Dimming	Control	3 stages: 800W / 600W / 400W		
		110000 ±7% @800W		
Total Lum	inous Flux (Im)	68000 ±7% @600W		
		53000 ±7% @400W		
Operation_Enabled		14 to 104°F (-10 to 40 °C)		
Temperature Range		14 10 104 1 (-10 10 40 -0)		
Mast				
Number o	f Stages	3 (with gas assist)		
Maximum Height (Standard) 11.25 feet (3.42 meters)		11.25 feet (3.42 meters)		

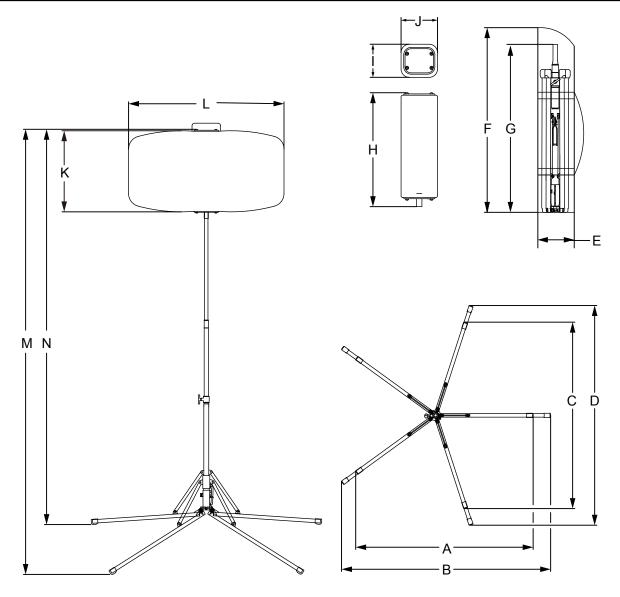
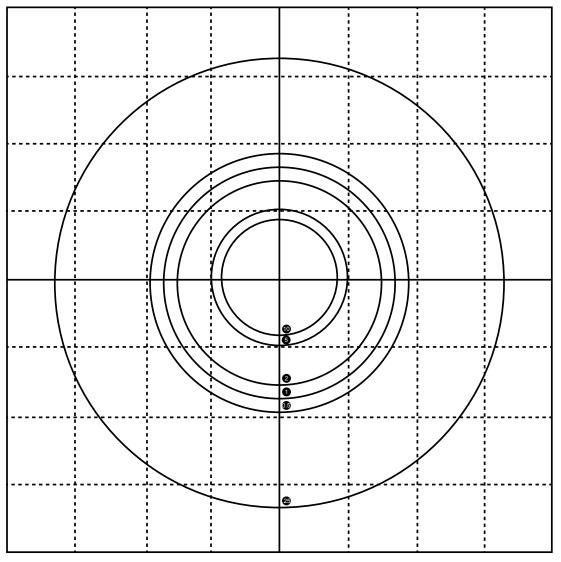


Figure 1. Dimensions

	Table 2. Dimensions						
Reference Letter	Dimension in. (mm.)	Reference Letter	Dimension in. (mm.)				
Α	Upper Position - 54.0 (1,372)	Н	27.0 (690)				
В	Lower Position - 64.0 (1,615)		8.0 (200)				
С	Upper Position - 57.0 (1,440)	J	9.0 (220)				
D	Lower Position - 67.0 (1,700)	K	25.0 (650)				
Е	7.5 (190)	L	47 in. (1200)				
F	44.1 (1,120)	M	82.9 - 135.2 in. (2106 - 3435)				
G	40.0 (1,016)	N	68 - 120 in. (1727 - 3048)				



1 Grid = 20 ft. (6 meters)

Illuminance (Footcandle)	10	5	2	1	0.5	0.25
Diameter Ft. (Meters)	34 (10)	40 (12)	60 (18)	68 (21)	76 (23)	132 (40)

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

#### GENERAL INFORMATION

The Multiquip GloBug GB8LED is a general purpose, portable, glare-free lighting systems Typical applications for these types of lighting systems include construction sites, emergency road crews and backyard parties.

#### LIGHTING

This GloBug lighting system is comprised of LED lamps in a shock-resistant, waterproof LED assembly. The LED assembly has an output of 110,000 lumens @800W. The LEDs have a long operating life of up to 40,000 hours. The lighting system has a 3-stage dimming control (400W, 600W and 800W).

#### **SETUP**

The GB8LED lighting system can be set up quickly and easily. Pentapod legs can be deployed in one quick easy step and can be adjusted to two different heights.

In addition the unit is equipped with a gas-assist mast lowering system. This system allows the mast to be retracted slowly so that the mast will not fall rapidly when released. This feature reduces the amount of vibration or shock to the lamp.

#### **TRANSPORT**

The GB8LED lighting system can be transported (Figure 3) quite easily in two carrying cases.

For ease of service or transport, the lamp assembly is equipped with a quick-disconnect connector that allows the lamp fixture to be removed quickly. This feature is extremely useful during transport of the lighting system. It is always best to remove the lamp and pack it safely so it will not be damaged.

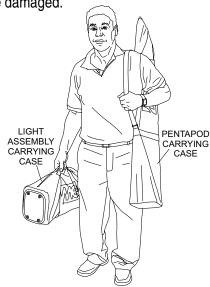


Figure 3. GB8LED Transporting

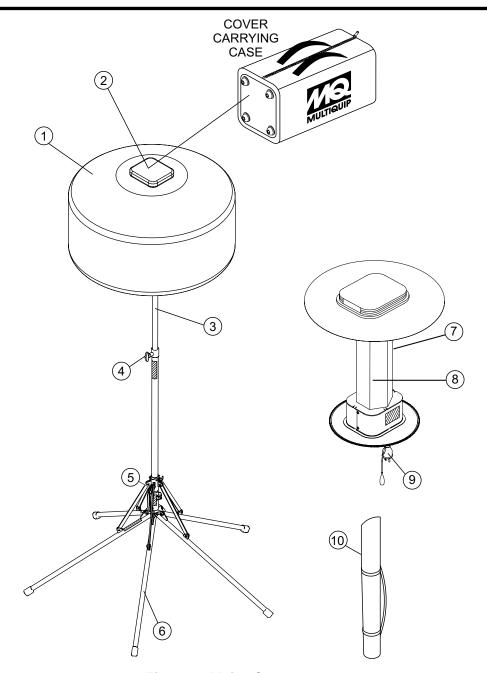


Figure 4. Major Components

#### COMPONENTS

Figure 4 shows the location of the components for the GB8LED lighting system. The function of each component is described below:

- Balloon This balloon is made of heat-resistant polyester, with a diameter of 43 inches (1092 mm).
- Balloon Cover/Carrying Case When zipped, this
  protective cover acts like a carrying case. The complete
  lamp assembly is enclosed within the cover-carrying
  case. Allow a sufficient amount of time for the lamp
  to cool down before covering balloon. The possibility
  exists of the balloon getting burned.
- Mast Three stage gas-assist mast. Maximum mast height is 11.25 ft. (3.42 meters). When raising the mast, always be on the lookout for overhead obstructions.
- T-Handle Bolt Lock Always tighten this lock to hold the lamp/balloon securely in place before raising mast.
- Weight Support Hook To add additional weight to the tripod and make the tripod more stable in windy conditions. Place a sandbag or similar weight onto this hook.

- Pentapod Unbuckle velcro strap securing pentapod legs (5), push down on any leg until all legs are fully deployed. To place legs in the stowed position, pull upward on velcro strap while pushing down on pentapod pole. Pull all legs upward and secure with velcro strap.
- 7. **Lamp Guard** This guard (cage) protects the lamp from being hit by objects.
- 8. **Lamp** Comprised of LED lamps. The lamps have three stages of brightness: 800W, 600W, and 400W.
- AC Power Cable Connect this cable to a 120 VAC, 60 Hz power source.
- Pentapod Carrying Case Use this case when transporting of the tripod is required. ALWAYS store tripod in this carrying case when not in use.

#### PENTAPOD DEPLOYMENT

- Place the pentapod on a firm level surface so that it will not slide or turn over. Make sure there is enough space around the unit for the tripod legs to be deployed.
- Remove pentapod from its carrying case. The pentapod legs are secured by a black velcro strap (Figure 5).
   Squeeze both tabs on each side of buckle to unlock strap and allow tripod legs (Figure 6) to be deployed.

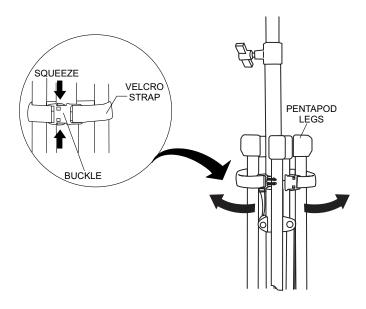


Figure 5. Velcro Strap (Open)



When storing and folding the mast **ALWAYS** keep hands and fingers away from pinch points.



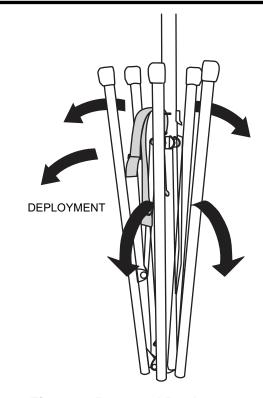


Figure 6. Pentapod Deployment

Next, pull upward on the mast and let the tripod legs deploy. Once the tripod legs have been fully deployed make sure the legs are locked by securing the latch.

The latch (Figure 7) has two positions, upper and lower. Placing the latch in the upper position will provide 1 ft. (305 mm) more height.

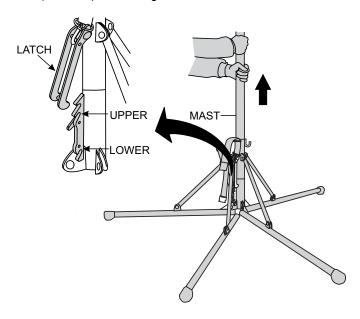
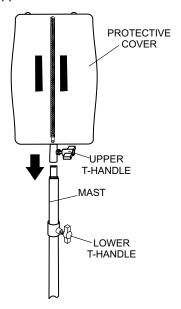


Figure 7. Securing the Tripod

#### **BALLOON ASSEMBLY PLACEMENT**

1. Place balloon assembly (Figure 8) onto mast and tighten Upper T-handle.



**Figure 8. Light Asembly Placement** 

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 9. Also remove the AC power cord at this time.

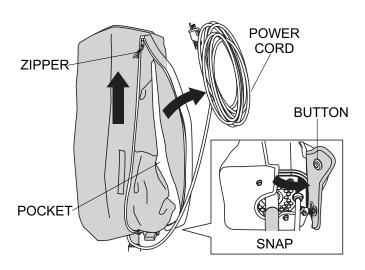
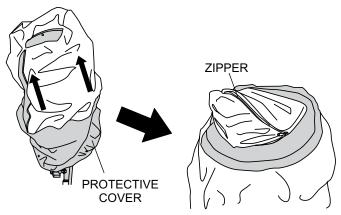


Figure 9. Removing Balloon/AC Power Cord

3. Next, fold the protective cover (Figure 10) into itself and zip.



**Figure 10. Folding Protective Cover** 

4. Attach the S-type hook (Figure 11) on the AC power cable onto the washer-eylet located on the bottom plate of the light assembly.

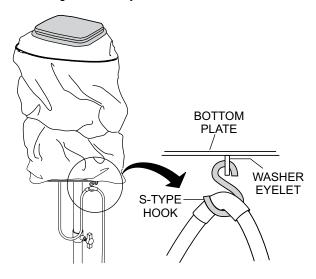
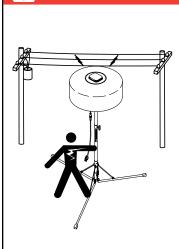


Figure 11. Securing Power Cord

#### **RAISING THE MAST**

**DANGER** 

Before raising the mast, make sure the upper T-handle bolt lock (Figure 12) is securely tightened. This will prevent the balloon/lamp assembly from falling off. In addition make sure that the lamp power cable is connected to the mating end of the 11 ft (3.35 meters) power source cable.



ALWAYS make sure the area above the lighting system is open and clear of overhead power lines and other obstructions. The mast extends in excess of 11 ft. (3.35 meters) when an optional extension is used. Contact with overhead power lines or other obstructions could result in equipment damage, serious Injury or death!

# **CAUTION**

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.

# **A** 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.

To improve stability and to prevent tipping of the light unit, place sand bags or similar type weight over the pentapod legs or weight hook as shown in Figure 12.

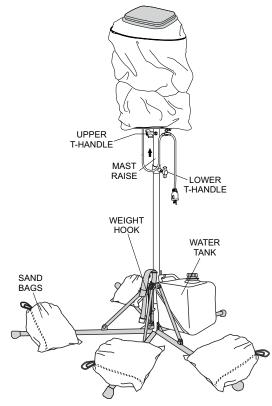


Figure 12. Sand Bags

- 6. Tighten lower T-handle (Figure 13) securely and raise third mast to desired height.
- Next, loosen lower T-handle and raise second mast to desired height. Once desired height has been achieved tighten lower T-handle.

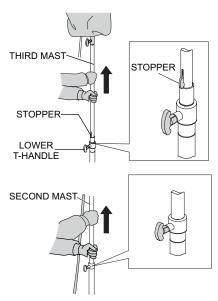


Figure 13. Raising The Mast

#### **APPLYING POWER**

 Connect the AC power cord to a 120 VAC external power source or to a 120 VAC receptacle on a generator (Figure 14).

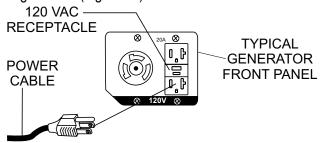


Figure 14. Connecting to Power Source

- Start the generator as indicated in the generator manual.
- 3. Turn on the power of the generator. The balloon will start to inflate and the lamp will turn on at 600W.

#### DIMMING THE LAMP

 Press the dimmer switch to control the brightness of the lamp (Figure 15). The lamp can be turned off or set to 400W, 600W or 800W. The corresponding LED will light red when selected (Figure 16).

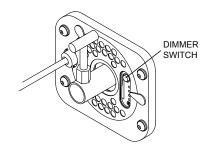


Figure 15. Dimmer Switch

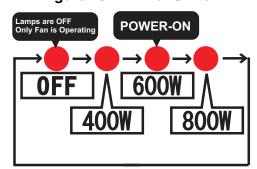


Figure 16. Brightness LED Indicators

2. 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 15) for 2 seconds. The blue LED in the center of the switch will flash when in silent mode.
- 2. 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

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

#### **STORAGE**

 Loosen the lower T-handle by turning handle counterclockwise (Figure 17). Push down on mast until mast is fully inserted into mast housing. Tighten T-handle fully.

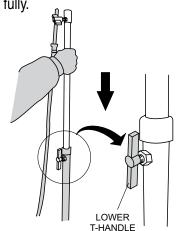


Figure 17. Lowering the Mast

Remove the S-type hook (Figure 18) on the AC power cord from the washer-eylet located on the bottom plate of the light assembly.

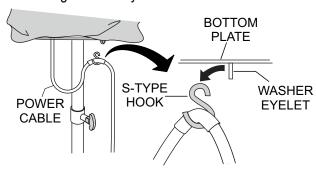


Figure 18. removing Power Cable

3. Unzip the zipper on the protective cover (Figure 19) and roll down the protective cover over the balloon cloth.

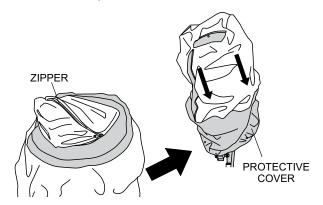


Figure 19. Unzipping the Protective Cover

4. Store the power cable inside the pocket of the protective cover (Figure 20). Zip up the protective cover and snap the buttons on the bottom of the protective cover.

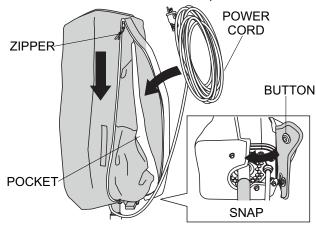


Figure 20. Zipping the Protective Cover

- 5. Loosen upper T-handle by turning counterclockwise and lift lamp assembly from mast.
- 6. Store lamp assembly enclosed with its protective cover (Figure 21) in a safe location where it will not be damaged.



Figure 21. Storing Lamp Assembly

7. To retract pentapod legs (Figure 22) and place in the stow position, grab hold of the mast while pulling up on the velcro strap (releases latch). Continue pulling upward on the velcro strap until the pentapod legs are fully retracted and are in the stow position.

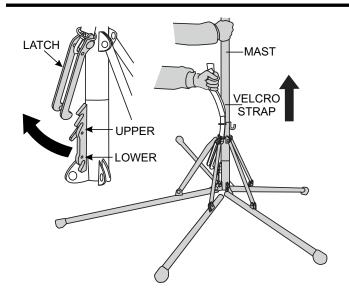


Figure 22. Retracting Pentapod Legs

8. Continue pulling upward (Figure 23) on the velcro strap until all 5 pentapod legs are fully retracted and are in the stow position.

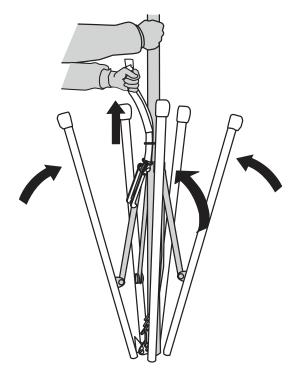


Figure 23. Pentapod Legs Stow Position

9. Once pentapod legs are in the stowed position, place velcro strap (Figure 24) around all 5 legs. Secure legs by inserting the male and female connector ends of the strap into each other.

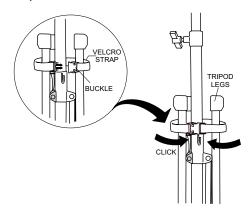


Figure 24. Velcro Strap (Closed)

10. Place pentapod (Figure 25) inside protective carrying case.

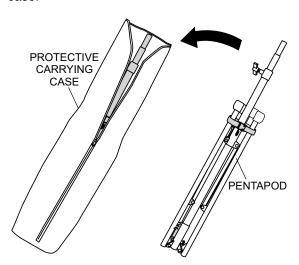


Figure 25. Carrying Case

#### REPLACING THE LAMP

#### **NOTICE**

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

#### REPLACING BALLOON ENVELOPE

1. Unzip the zipper (Figure 26) at the top and bottom of the balloon envelope (cover).

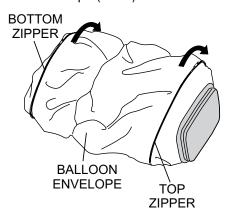


Figure 26. Unzipping the Balloon Envelope

2. Slide the old or worn balloon envelope (Figure 27) over the top of the lamp guard assembly.

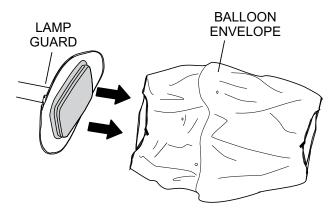


Figure 27. Removing the Balloon Envelope

3. Slide the new balloon (Figure 28) envelope over the top of the lamp guard assembly.

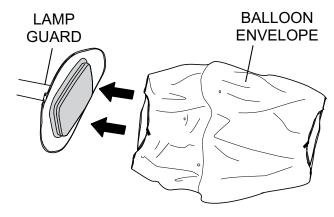


Figure 28. Installing New Balloon Envelope

4. Zip up the zipper (Figure 29) at the top and bottom of the balloon envelope (cover).

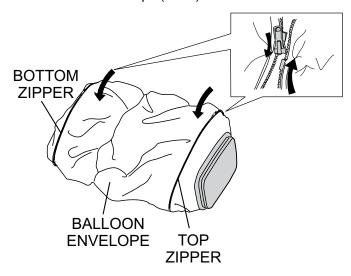


Figure 29. Zipping the Balloon Envelope

#### FILTER REPLACEMENT

- 1. Remove the balloon as described in the STORAGE section.
- 2. Turn the balloon/lamp assembly upsidedown to access the filter. See Figure 30.

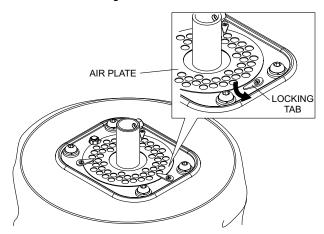


Figure 30. Accessing Filter

- 3. Turn the three locking tabs outwards to release the air plate. See Figure 30.
- 4. Remove the air plate and filter. See Figure 31.

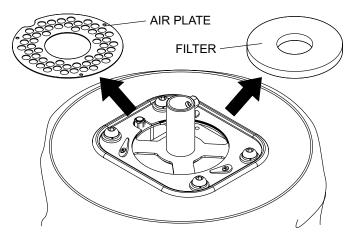


Figure 31. Filter Removal

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 32.

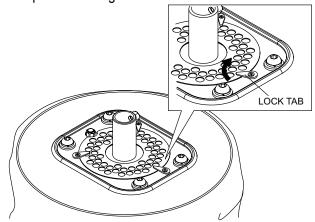


Figure 32. Locking Air Plate

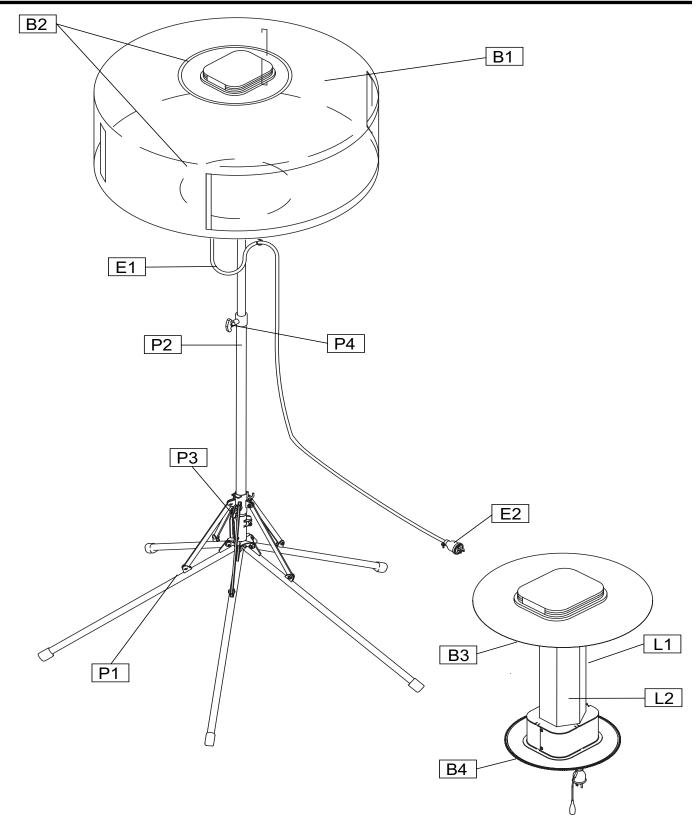


Figure 33. Maintenance Check Points

# **MAINTENANCE**

For a prolonged life cycle an extended quality follow the recommended GloBug lighting system service guidelines as referenced in Figure 33 and Table 3.

Table 3. Periodic Check and Maintenance					
Figur	е	Part	Check Item	Solution	Symbol
Lomn	L1	Lamp Guard	Dirty, rusty or damaged?	Clean/Replace	<b>♦</b>
Lamp	L2	LED Lamp	Defective or broken?	Replace	*
	B1	Balloon (Envelope)	Ripped or dirty?	Replace	*
Dellage	B2	Zipper	Broken?	Replace	*
Balloon	В3	Fan Motor (Blower)	Not working properly?	Replace	
	B4	T-Handle bolt (Balloon)	Broken?	Replace	*
Fleetrie	E1	Power Cable	Defective or worn cable?	Replace.	*
Electric E2		Plug	Damaged?	Replace	<b>*</b>
	P1	Pentapod	Damaged or not working properly?	Replace	<b>*</b>
Dontonod	P2	Mast	Damaged or not working properly?	Replace	<b>*</b>
Pentapod	P3	Hook	Damaged?	Replace	*
	P4	T-Handle Knob (Mast)	Damaged?	Replace	*
	*	> - Daily Check	ery 20 Hours   - Every 100 Hours		Hours

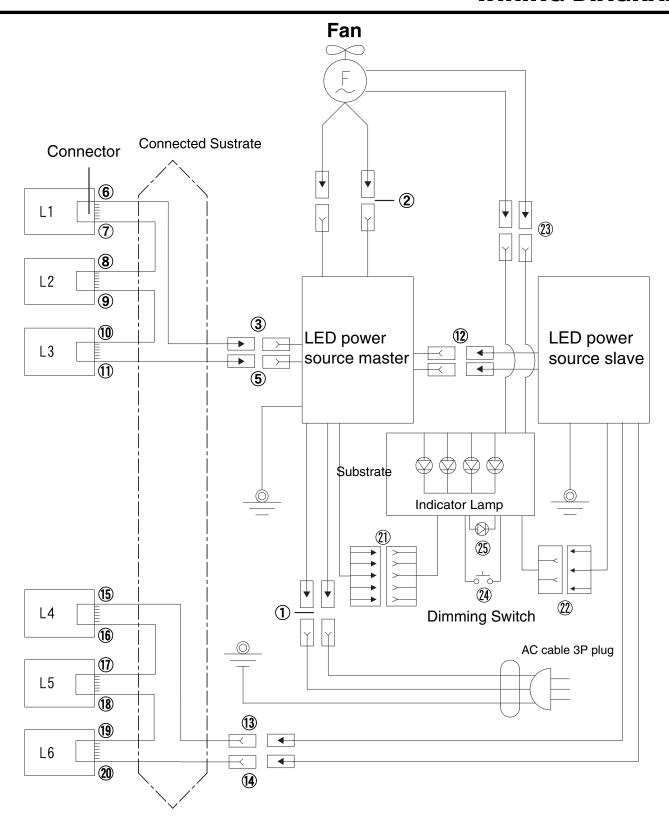
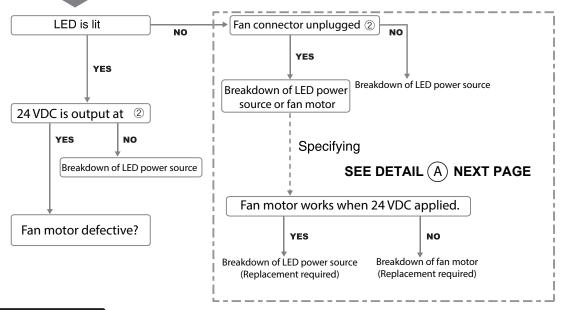


Figure 34. Electrical Wiring Diagram

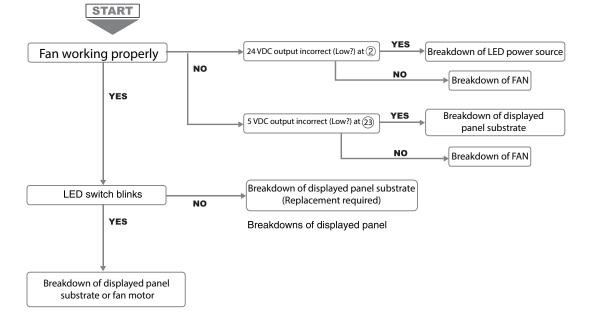
# **Fan's Performance Impairment**

#### Fan is not working

**START** The numbers shown in these troubleshooting flow charts are referenced in the wiring diagram.

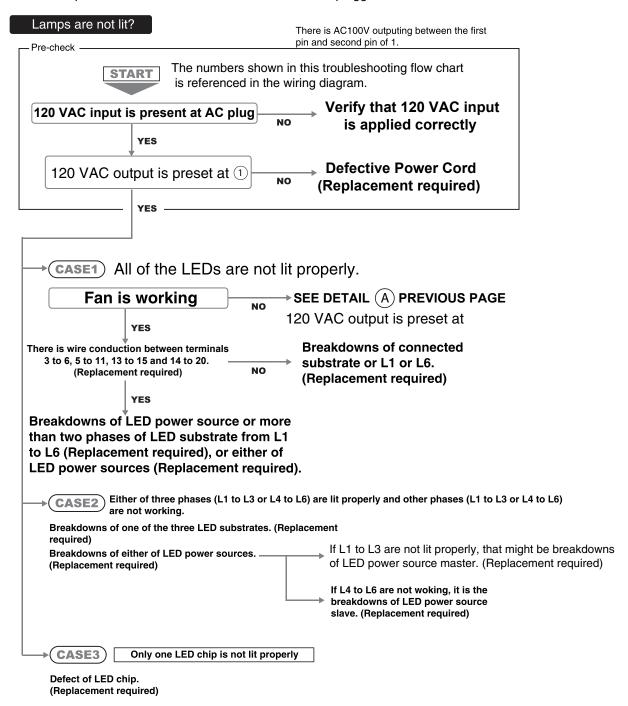


#### Silent mode not wokring?



## **Lamp's Performance Impairment**

O Use the power source which none of machineries are plugged in.



#### Insufficient Air Inside Balloon

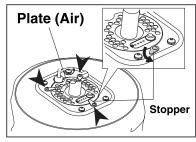
© Confirm the fan is working properly.

#### Balloon is not bulged.

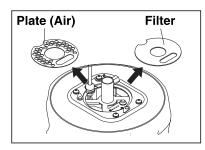
Zipper is opened Close the zipper properly.
 Balloon cloth is torn. Repairing or exchanging the balloon cloth
 The filter is clogged up Cleaning up or exchanging the filter.
 Silent mode Holding down on switch to set up the normal mode.

#### How to clean up the filter.

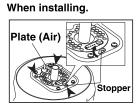
#### ■ Remove the filter.



Use three stoppers to hold the plate.



Remove the plate and filter.



Install the plate and filter in reverse order of when removing them.

#### Simple cleaning



 Use a vacuum cleaner to remove dust and debris.

#### Washing

- Use neutral detergent.
- When you put the filter in the washing machine, please use the laundry net.
- After washing, please dry it adequately and replace it. If filter is not completely DRY it will not filter properly. In cold weather conditions it could become frozen replace it.

If any debris or substance is firmly attached to the filter replace it.

# **TROUBLESHOOTING**

Troubleshooting					
Symptom	Possible Problem	Solution			
	Is power plug connected?	Plug in correctly.			
	Is generator's main CB turned off?	Turn on CB.			
	Are any wire cables disconnected?	Connect disconnected wire cable.			
Lamp does not light.	Are any other electric appliances (other than light tower) plugged into power source?	Unplug all other appliances.			
	Is generator voltage not normal (standby voltage - $120 \pm 5 \text{ V}$ )?	Use proper voltage.			
	Is zipper unzipped?	Zip balloon completely.			
Balloon is not inflating.	Is fan motor not properly operating?	Inspect and repair fan motor if necessary.			
	Is balloon torn?	Repair balloon.			
	Is unit in silent mode?	Cancel silent mode.			

# **NOTES**

 	 ·	

### **EXPLANATION OF CODE IN REMARKS COLUMN**

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

#### **NOTICE**

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

# SAMPLE PARTS LIST

1	<u> </u>	<u>Part no.</u>	<u>Part name</u>	<u>QTY.</u>	<u>REMARKS</u>
•	1	12345	BOLT	1	INCLUDES ITEMS W/%
2	2%		WASHER, 1/4 II	۱	NOT SOLD SEPARATELY
2	2%	12347	WASHER, 3/8 II	N1	MQ-45T ONLY
3	3	12348	HOSE	A/R	MAKE LOCALLY
4	4	12349	BEARING	1	S/N 2345B AND ABOVE

#### NO. Column

**Unique Symbols** — All items with same unique symbol

(@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

**Duplicate Item Numbers** — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

#### **NOTICE**

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

#### PART NO. Column

**Numbers Used** — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

#### QTY. Column

**Numbers Used** — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

#### **REMARKS Column**

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

**Assembly/Kit** — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

**Serial Number Break** — Used to list an effective serial number range where a particular part is used.

Indicated by:

"S/N XXXXX AND BELOW"

"S/N XXXX AND ABOVE"

"S/N XXXX TO S/N XXX"

**Specific Model Number Use** — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

"XXXXX ONLY"

"NOT USED ON XXXX"

"Make/Obtain Locally" — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"Not Sold Separately" — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

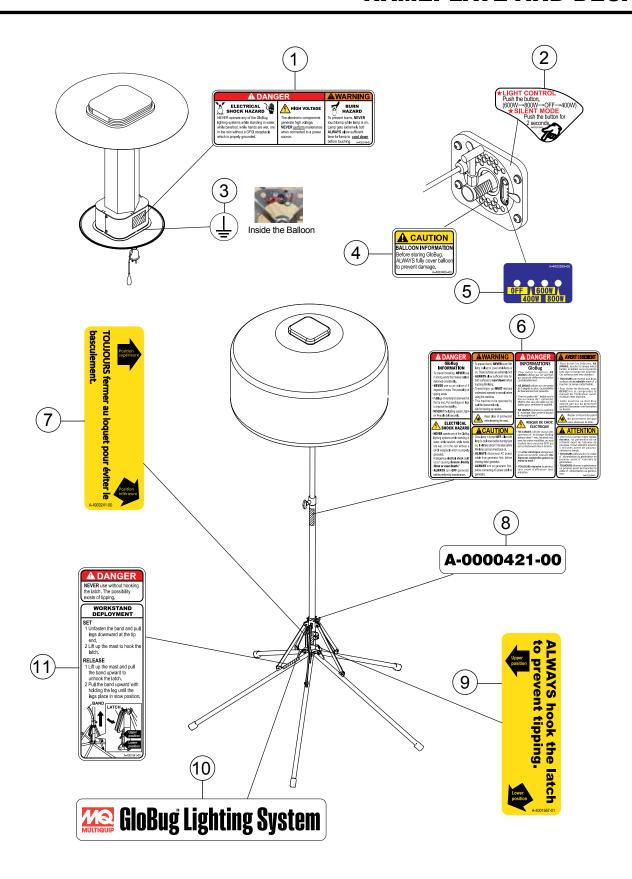
# **SUGGESTED SPARE PARTS**

## **GLOBUG GB8LED LIGHTING SYSTEM**

## 1 TO 3 UNITS

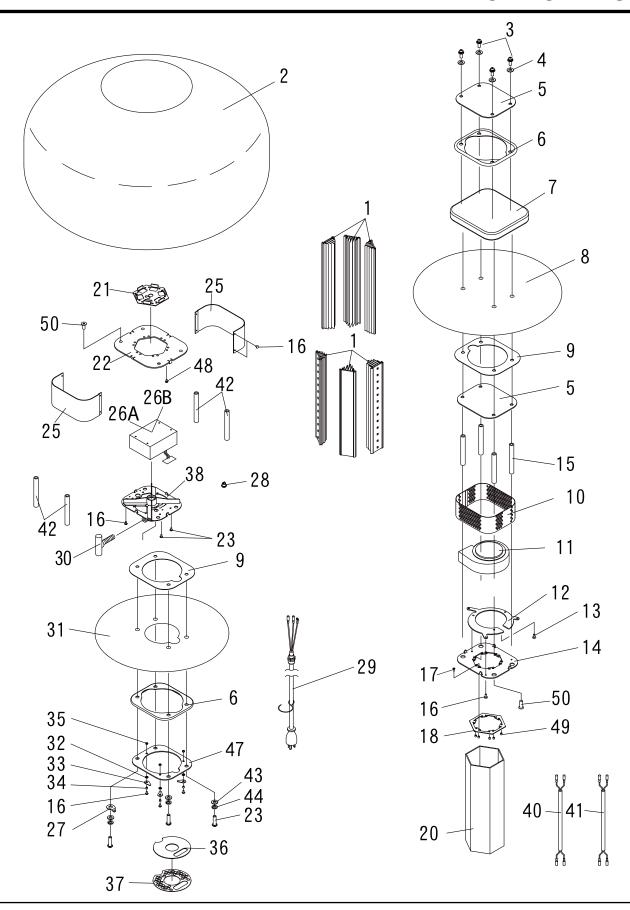
Qty.	P/N	Description
3	A300282600	LED HEATSINK ASSY
2	A100108400	BALLOON CLOTH

# NAMEPLATE AND DECALS



# **NAMEPLATE AND DECALS**

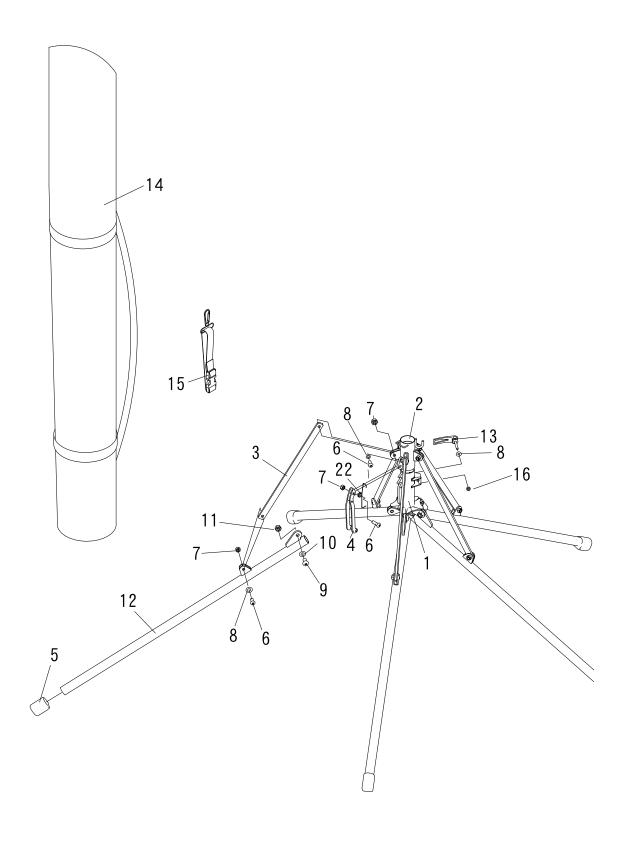
NO.	PART NO.	PART NAME	QTY.	<b>REMARKS</b>
1	A400204801	DECAL; ELECTRIC SHOCK, HIGH VOLTAGE, BURN HA	\Z. 1	
2	A400363400	DECAL; LIGHT CONTROL	1	
3	A400084300	DECAL; GROUND	1	
4	A400340800	DECAL; DANGER, BALLOON INFORMATION	1	
5	A400329000	DECAL; DIMMER SWITCH LEDS	1	
6	A400324801	DECAL; GLOBUG INFORMATION	1	
7	A400324100	DECAL: HOOK LATCH (FRENCH)	1	
8	A400207303	DECAL;NAME	1	
9	A400166701	DECAL; HOOK LATCH (ENGLISH)	1	
10	A400193300	DECAL; LOGO MQ-GLOBUG	1	
11	A400194100	DECAL; DANGER, WORKSTAND DEPLOYMENT	1	



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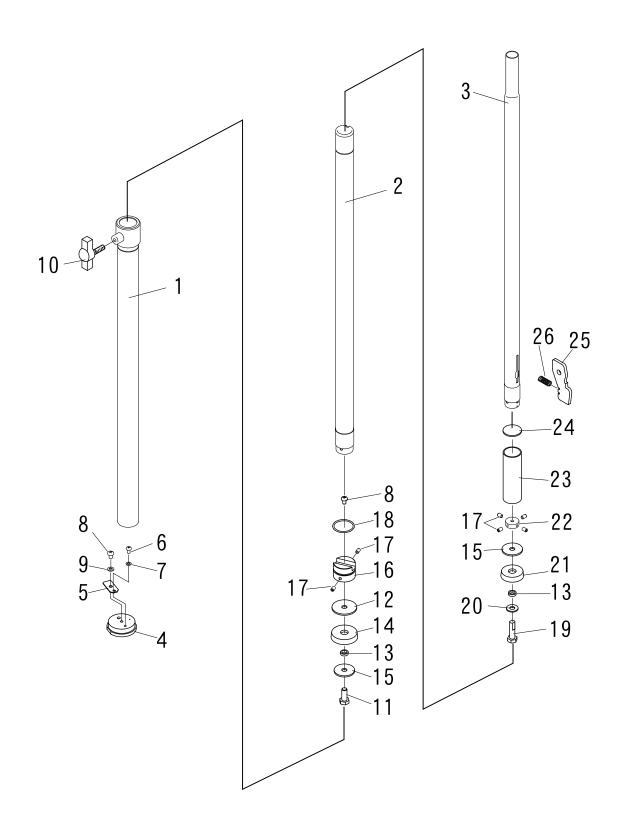
# **ELECTRICAL ASSY.**

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	A300282600	LED HEATSINK ASSY.	<u><b>G11.</b></u> 6	ILMATIKS
2	A100108400	BALLOON, CLOTH	1	
3	0014708025	BUTTON SCREW, M8X25	4	
4	E000132100	SUS OPG BONDED WASHER	4	
5	A300257000	PLATE, TOP	2	
6	A300257000 A300162400	SEAL, PACKING	2	
7	A100107700	BALLOON COVER (BLACK)	1	
8	A100107700 A100101200	SHEET, TOP	1	
9	2214500230	SEAL, FLAT	2	
10	A300274701	VESSEL, TOP	1	
11	A300274701 A300280600	FAN MOTOR ASSY.	1	
12	A300281401	PLATE, FAN	1	
13	0023204006	SCREW, M4X6	3	
14	A300247701	PLATE, LAMP, TOP	1	
15	A400317400	SPACER A	4	
16	0024304008	TRUSS SCREW, M4X8	15	
17	0023204012	COUNTERSUNK SCREW, M4X12	12	
18	A400295300	STOPPER, GUARD	12	
20	A300243602	GUARD, LED	1	
21	A300243002 A300282500	ADAPTER BOARD	1	
22	A300292500 A300290400	PLATE, LAMP	1	
23	0014708035	•	4	
		BUTTON SCREW, M8X35	2	
24 25	0023203005	SCREW, M3X5	2	
26A	A300291200	COVER PLATE	<u> </u>	
	A300269000	LED POWER SUPPLY (MASTER)	1	
26B 27	A300269100	LED POWER SUPPLY (SLAVE) WASHER	1	
	2204510110		1	
28 29	A400329900 A300181901	DIMMING SWITCH POWER CABLE	1	
			1	
30 31	A400209800	BALLOON KNOB (T-HANDLE) SHEET, BOTTOM	1	
	A100097600	•	) 2	
32	E000119300	WAVE WASHER, M6	3	
33	A400030700 E000077500	STOPPER	3 3	
34		SPACER	5 5	
35	0033104000	NUT, M4	ე 1	
36	A400273800	FILTER	1	
37	A300244600	PLATE, AIR	 	
38	A200105100	FLANGE, LED	 	
40	A400305001	WIRE, FAN	l 4	
41	A400331100	WIRE, FAN (VC)	1	
42	A400311400	SPACER B	4	
43	0043108000	WASHER, M8	4	DEDI ACEC D/N 00/1000000
44	030208200	WASHER, LOCK 8MM		REPLACES P/N 0043208000
47 40	A300256700	PLATE, BOTTOM	1	
48	0023304015	SCREW/WASHER, M4X15	12	
49 50	E000122300	SPACER	12	
50	E000119600	BOLT, M8X20	8	



# PENTAPOD ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	A300180300	BASE PIPE 1	1	
2	A300178000	BASE PIPE 2	1	
3	A300113103	STAY	5	
4	A300108700	SHACKLE	1	
5	1641000330	RUBBER FOOT	5	
6	0014708025	BUTTON SCREW, M8X25	11	
7	0033208000	SELF LOCKNUT, M8	11	
8	0043108000	WASHER, M8	12	
9	0014710025	BUTTON SCREW, M10X25	5	
10	0043110000	WASHER, M10	5	
11	0033210000	SELFLOCK NUT, M10	5	
12	A300171601	PIPE, BASE	5	
13	2212780310	LEVER, CLAMP	1	
14	A300152700	PENTAPOD CARRYING CASE	1	
15	A300106500	BAND	1	
16	0033206000	SELF LOCKNUT, M6	1	
22	A400205901	SPRING, SHACKLE	1	



# MAST ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	A300175400	FIRST MAST	1	
2	A300175500	SECOND MAST	1	
3	A300175600	THIRD MAST	1	
4	A400199700	PLUG	1	
5	A400112700	LEAF VALVE	1	
6	0023104008	SCREW, M4X8	1	
7	0043104000	WASHER, M4	1	
8	0023105008	SCREW M5X8	2	
9	0043105000	WASHER, M5	1	
10	A400187601	KNOB, BLACK	1	
11	0013108020	BOLT, M8X20	1	
12	A400200500	WASHER	1	
13	A400110200	WASHER, FIRST MAST	2	
14	A400200700	RUBBER, MAST	1	
15	A400092801	WASHER, SECOND MAST	2	
16	A400200800	BOTTOM PLATE	1	
17	0024705008	SET SCREW, M5X8	6	
18	E000081200	O-RING	1	
19	A400202700	BOLT	1	
20	0043108000	WASHER, M8	1	
21	A400109600	RUBBER, MAST	1	
22	A400092402	BOTTOM PLATE	1	
23	A400200300	PIPE, LEVER	1	
24	A400321800	WASHER	1	
25	A400200201	LEVER, HOOK	1	
26	A400345900	SPRING, HOOK	1	

#### TERMS AND CONDITIONS OF SALE — PARTS

#### **PAYMENT TERMS**

Terms of payment for parts are net 30 days.

#### **FREIGHT POLICY**

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

#### MINIMUM ORDER

The minimum charge for orders from Multiquip is \$15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

#### RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

- A Returned Material Authorization must be approved by Multiquip prior to shipment.
- To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
  - The parts numbers and descriptions must match the current parts price list.
  - b. The list must be typed or computer generated.
  - c. The list must state the reason(s) for the return.
  - d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
  - The list must include the name and phone number of the person requesting the RMA.
- 3. A copy of the Return Material Authorization must accompany the return shipment.
- 4. Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.

- Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
- 6. The following items are not returnable:
  - Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
  - b. Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
  - Any line item with an extended dealer net price of less than \$5.00.
  - d. Special order items.
  - e. Electrical components.
  - f. Paint, chemicals, and lubricants.
  - g. Decals and paper products.
  - h. Items purchased in kits.
- 7. The sender will be notified of any material received that is not acceptable.
- Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.
- Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
- 10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
- 11. Credit issued will be applied to future purchases only.

#### **PRICING AND REBATES**

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

#### **SPECIAL EXPEDITING SERVICE**

A \$35.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

#### LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

#### **LIMITATION OF WARRANTIES**

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. Apart from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

Effective: February 22, 2006

# **NOTES**

# **OPERATION AND PARTS MANUAL**

# HERE'S HOW TO GET HELP

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

#### **UNITED STATES**

Multiquip Corporate Office

18910 Wilmington Ave. Carson, CA 90746

Contact: mg@multiquip.com

Service Department

800-421-1244 310-537-3700

Technical Assistance

800-478-1244

#### MQ Parts Department

800-427-1244 Fax: 800-672-7877 310-537-3700 Fax: 310-637-3284

Warranty Department

800-421-1244 310-537-3700 Fax: 310-943-2249

#### **CANADA**

#### Multiquip

4110 Industriel Boul. Tel: (450) 625-2244 Laval, Quebec, Canada H7L 6V3 Tel: (877) 963-4411 Contact: jmartin@multiquip.com Fax: (450) 625-8664

Tel. (800) 421-1244

Fax (310) 537-3927

Fax: 310-537-4259

Fax: 310-943-2238

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#### Multiquip (UK) Limited Head Office

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