OPERATION AND PARTS MANUAL



GLOBUG SERIES MODEL GB114BS/BP LIGHTING SYSTEM

Revision #3 (01/06/09)



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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NOTICE

Specifications and part numbers are subject to change without notice.

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
aphilliphin.	Burn hazards
*	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.







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

DANGER

■ NEVER use lighting system in rain, snow or areas of high humidity that could generate electrical storms.



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 22 mph (10 m/s).
- The lighting system should only be used in temperatures between 23° to 104°F (-5° 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.

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

- 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.

BALLOON SAFETY

WARNING

■ To prevent serious burns, **NEVER** touch or unzip the balloon envelope when the lamp is on.



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.

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.





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

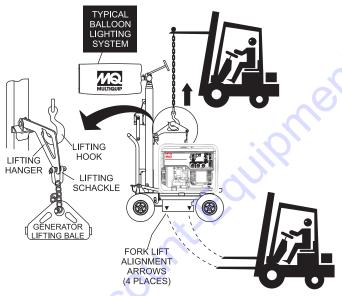
■ ALWAYS make certain that proper power or extension cord has been selected for the job. See Cable Selection Chart in this manual.

LOADING AND UNLOADING

If lighting system is equipped with a transport lifting hook, refer to the following safety information.

CAUTION

- Before lifting, make sure that lighting system parts are not damaged and screws are not loosened or lost.
- ALWAYS make sure crane or lifting device has been properly secured to lifting hook of the equipment.
- **NEVER** lift the equipment while lighting system is running.
- Make sure the mast is completely lowered before lifting the lighting system.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- Use one point suspension hook and lift straight upwards.



- Never allow any person or animal to stand underneath the equipment while lifting.
- DO NOT lift machine to unnecessary heights.

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. 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.

Table 1. Specifications				
GloBug Lighting System				
Model	GB114BS/GB114BP			
Input Voltage	120 VAC			
Ballast	Magnetic Ballast 60 Hz			
Frequency	60 Hz Single-Phase			
Max. Current	9.5 Amps			
Lamp				
Lamp Type	1000 Watt Metal Halide			
Lumens	112,000			
Light Coverage (360°)	150 ft. (45.72 meters)			
Surface Temperature (Longitudinal)	476.6°F (247°C) Max.			
Surface Temperature (Transversal)	417.2°F (214°C) Max.			
Fan Motor	* O			
Balloon Fan Motor	115 VAC, 60 Hz			
Max. Current	.360 Amps			
Pressure	31.26 PSI (215.6 kPA)			
Balloon	×			
Diameter	47.16 in. (1,200 mm)			
Material	Heat Resistant Nylon			
Heat Resisting Temperature	320 ~ 356°F (160 ~ 180°C)			
Melting Temperature	500°F (260°C)			
Internal Temperature of Balloon	126°F (52°C) Average			
Water Resistance	1,500 mm H20			
Weight				
GB114BS	83 lb. (38 kg)			
GB114BP	61 lb. (28 kg)			

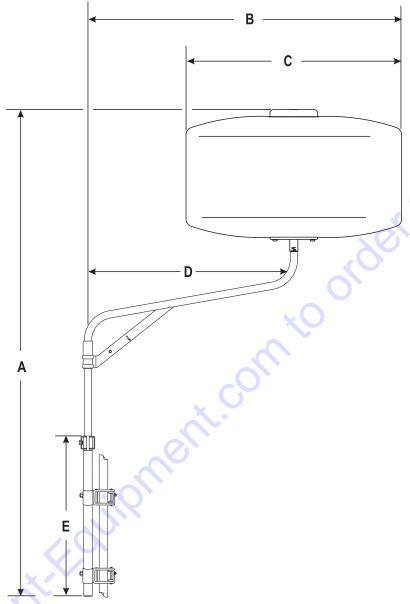


Figure 1. Dimensions (GB114BS)

Table 2. Dimensions					
Reference Letter	Dimension in. (mm.)	Reference Letter	Dimension in. (mm.)		
А	88.0 -108.0 in. (2,230 - 2,730 mm.)	D	35.00 in. (900 mm.)		
В	59 in. (1,500 mm.)	Е	35.00 in. (900 mm.)		
С	47.16 in. (1,200 mm.)				

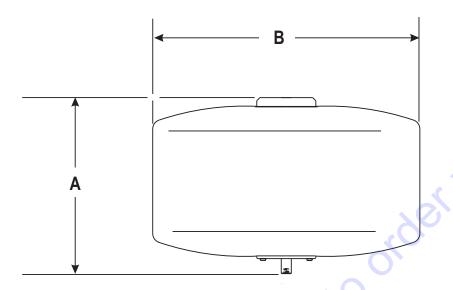
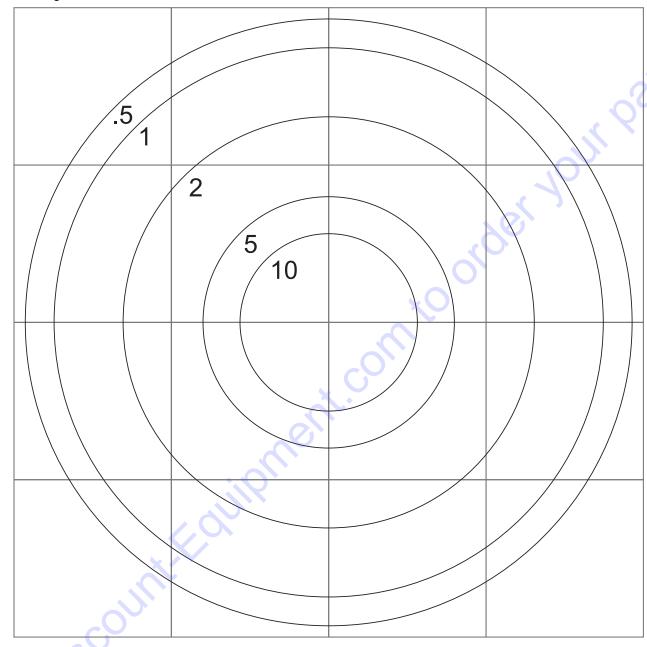


Figure 2. Dimensions (GB114BP)

Table 3. Dimensions			
Reference Dimension in. (mm.)			
Α	28.00 in. (712 mm.)		
В	47.16 in. (1,200 mm.)		

360° Coverage



Values listed as footcandles

Scale: Grid = 50 ft. (15.25 meters)

Figure 3. Floodlight Footcandle Plot (BAL-115 Drum Shaped)

GENERAL INFORMATION

The Multiquip GloBug GB114BS, and GB114BP are general purpose portable glare-free lighting systems. Typical applications for these types of lighting systems include construction sites, emergency road crews and backyard parties.

BALLOON ENVELOPES

The GloBug lighting system can be confi gured with a variety of balloon envelopes (canopy). Please contact Discount-equipment for the balloon of your choice. The GloBug GB114BS and GB114BP shipped from the factory with the drum type balloon.

LIGHTING

Multiquip's GloBug lighting system is comprised of one "Metal Halide" 1000-watt lamp. This lamp has an output of 112,000 lumens. Typical lighting coverage is in excess 150 ft. (46 meters) in a 360 degree pattern.

POWER

These GloBug lighting systems are powered by a portable ballast that can be hand carried. The input power requirements for operating the lighting system is 120 VAC, 60 Hz @ 9.5 amps

GB114BS

The GB114BS lighting system (offset pole) is designed to be attached to a external piece of a equipment such as a paver (Figure 4). This system is equally easy to assemble. Simply attach the supplied support clamps to an external pole or support and you are ready.

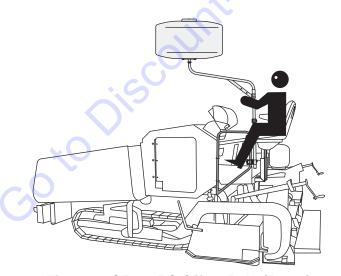


Figure 4. GB114BS Offset Pole (Paver)

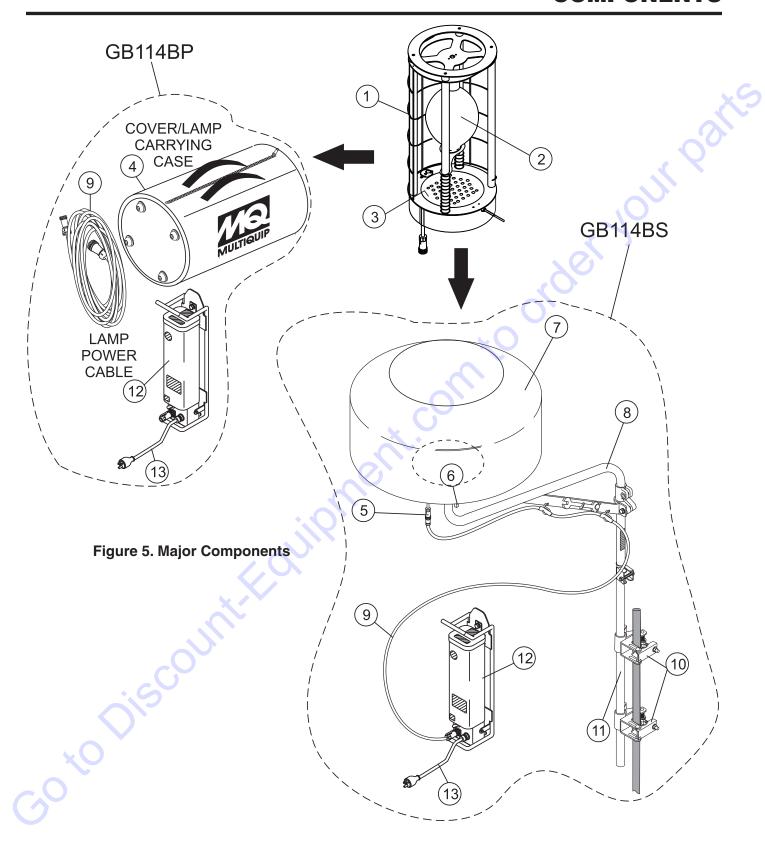
GB114BP

When only a complete lamp assembly is required please order Model GB114BP. This model number includes the lamp, protective guard, balloon protective covering and all other components that make up the lamp assembly.

TRANSPORT

The GB114 lighting systems can be transported quite easily. The GB114BP consists of a balloon/lamp, power cable and a ballast, and it has a combined weight of 61 lbs (28 kg). The GB114BS consists a balloon/lamp, power cable, ballast and offset pole, and it has a combined weight of 83 lbs (38 kg).

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.



COMPONENTS

Figure 5 shows the location of the components for the GloBug lighting system. The function of each component is described below:

- 1. **Lamp Guard** This guard (cage) protects the lamp from being hit by objects.
- Lamp 1000 watt metal-halide type lamp. Replace only with MQ recommended type lamp. Always allow a sufficient amount of time for the lamp to cool down before changing.
- 3. Fan Motor (Blower) This electric motor is responsible for inflating the balloon. It will supply a pressure of 31.26 psi /215.6 kPA. Please note that the balloon will begin to inflate as soon as power is applied to the lighting system.
- 4. 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.
- 5. Lamp Assembly Connector Quick-disconnect cable. Provides AC power to lamp assembly.

- 6. **T-Handle Bolt Lock** Always tighten this lock to hold the lamp/balloon securely in place.
- 7. **Balloon** This balloon is made of heat-resistant nylon, with a diameter of 47 inches (1200 mm).
- 8. **Offset Pole** Supports lamp assembly when attached to the main mast. Included with the offset pole is a 17/19 mm wrench.
- Lamp Power Cable (Output) Connect this cable between the ballast receptacle and the lamp assembly connector.
- Pole Clamps Attach these clamps (2) to the main pole and external support pole. Always tighten both clamps securely to prevent slippage of the light assembly.
- 11. **Main Pole** Used in conjunction with the offset pole to support the lamp assembly.
- 12. **Ballast** Power source for lamp. Input power requirements are 120 VAC, 60 Hz @ 9.5 amps.
- 13. Ballast AC Power Cable (Input) Connect this cable to a 120 VAC, 60 Hz power source.

NOTICE

The pole clamp assembly used in this setup procedure is a dual type clamp. One side of the clamp is for the attachment of the main pole of the lighting system. The other side of the clamp is used for the attachment of a support pole that is usually connected to a piece of equipment such as a paver.

POLE SETUP

Refer to Figure 6 for the following procedure.

- Remove the offset pole (B) from the shipping container.
- 2. Attached to the offset pole is a 17/19 mm open-end wrench (C). Remove the wingnut (D) securing the wrench to the offset pole and remove wrench.
- 3. Reinsert wingnut and washer back into offset pole so they will not get lost or misplaced.
- 4. Remove the two pole clamp assemblies (A) from the shipping container. Attach one pole clamp assembly (E) to the main pole (F) about 3 inches (76.2 mm) down from the main pole extension clamp. Using supplied 19 mm wrench, tighten locknut on the pole clamp assembly securely.
- Attach the other pole clamp assembly (G) to the main pole (F) about 7.0 in. (140 mm.) down from the previous attached pole clamp assembly (E). Using the 19 mm wrench, tighten locknut on the pole clamp assembly securely.
- 6. To attach main pole (F) to equipment support pole (I), swing open adjustable tension plate (H) on clamp so that it can accomodate the diameter of the equipment support pole. Insert equipment support pole (I) through the two equipment support pole clamp assemblies as shown in Figure 6.
- Once the equipment support pole (I) has been seated properly, move adjustment bolt and locknut (J) into locking position. Use the supplied 17 mm wrench, to tighten locknuts (J) on both clamps securely.
- 8. Place offset pole (B) with adapter clamp (K) on top of adjustable extension pole (L). Make sure that offset pole has been seated correctly.

- 9. Using 17 mm wrench, tighten both bolts (M) on the offset adapter clamp (K) securely.
- Place lamp assembly (N) onto offset pole (B). Tighten T-handle bolt (O) securely.

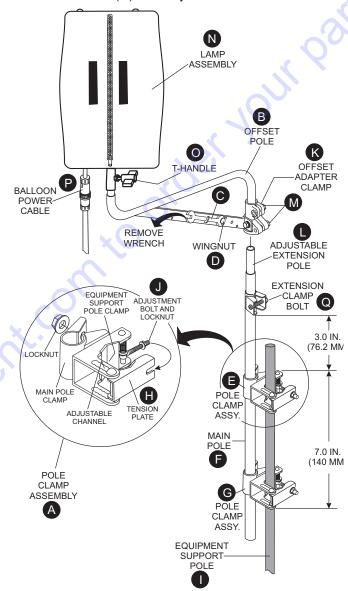


Figure 6. Offset Pole Assembly

REMOVING THE PROTECTIVE COVERING

1. Expose the balloon by pulling down on the velcro tab and unzip the protective cover as shown in Figure 7.

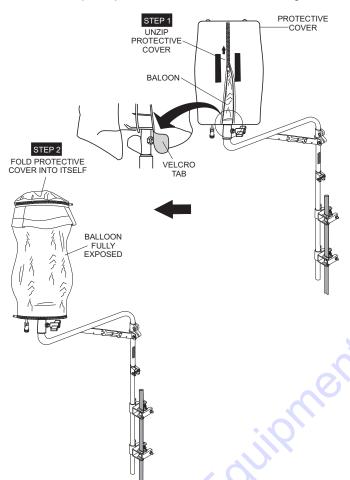


Figure 7. Folding Protective Cover

CONNECTING POWER CABLE

1. Connect 16.4 ft. (5 meters) lamp power cable (Figure 8) to the balloon power cable.

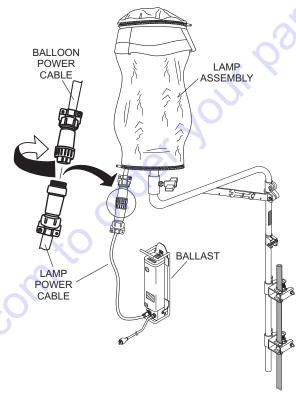


Figure 8. Connecting Lamp Power Cable

2. Attach both S-type hooks (Figure 9) on the lamp power cable into the cable support holes on the offset pole.

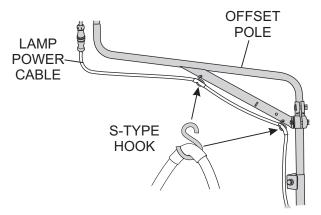


Figure 9. Attachment of S-Hooks

RAISING THE EXTENSION POLE

- Before raising the extension pole, make sure the T-handle bolt lock (Figure 6-O) 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 power source cable.
- 2. Raise extension pole (Figure 6-L) to desired height. Watch out for any overhead obstructions.
- Using 19 mm wrench, tighten extension clamp bolt (Figure 6-Q) securely. Keep wrench in a safe place where it will not get lost.

A DANGER



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, Serious Injury or Death!

⚠ DANGER



When raising the extension pole, 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.

APPLYING POWER

 Make sure the power ON/OFF switch (Figure 10) located near the bottom of the ballast is in the OFF position.

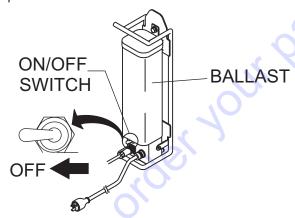


Figure 10. Power OFF/ON Switch (Off Positon)

2. If using a power source (Figure 11) other than a portable generator, plug the AC power cord from the ballast into a 120 VAC, 60 Hz receptacle that is protected by a at least a 15 amp circuit breaker.

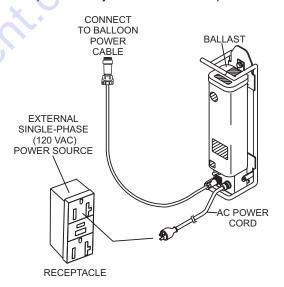


Figure 11. Applying 120 VAC Power

NOTICE

If using a portable generator, start the generator as referenced in the "Start-up Section" of the supplied generator manual.

Once the generator has started, plug the AC power cord from the ballast (Figure 11) into a GFCI receptacle on the generator.

OPERATION/SHUTDOWN

NOTICE

ALWAYS Make sure ballast is securely mounted to a surface where it will not move, slip or fall. This will prevent severe damage to the ballast.

3. Place the ON/OFF switch (Figure 12) on the ballast in the ON position.

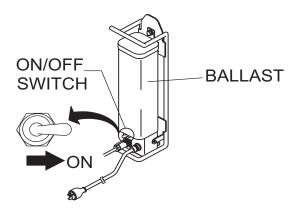


Figure 12. Ballast On/Off Switch (On Position)

- 4. Notice that the balloon envelope will begin to deploy as soon as power is applied.
- The lamp should now be on. If the lamp is not on, check all connections and repeat steps 1 thru 4. If the lamp still does not come on, contact Discountequipment.
- 6. The lighting system is now ready for use.

SHUTDOWN

- Place the ON/OFF switch on the ballast to the OFF position. The balloon should begin to deflate and the lamp turns off.
- If using a portable generator, shut-down the generator as referenced in the "Shutdown Section" of the supplied generator manual. ALWAYS place the main circuit breaker in the OFF position before turning off the generator.
- If using a power source other than an AC generator, disconnect the ballast AC power cable from the power source.

NOTICE

Allow a sufficient amount of time (15-20 minutes) for the lamp to cool down . The possibility exists of the balloon getting burned (touching the lamp).

LOWERING THE EXTENSION POLE

- 1. Using the supplied 19 mm wrench, loosen extension clamp bolt (Figure 6-Q).
- 2. Carefully pull down on the adjustable extension pole (Figure 6-L) and lower lamp assembly.
- Remove wingnut (Figure 6-D) from offset pole (Figure 6B) and insert wrench into wrench holder. Reinsert wingnut and tighten.

REMOVING LAMP ASSEMBLY

 Disconnect balloon power cable (Figure 13) from the lamp power cable. Place lamp power cable in a safe place where it will not get damage or lost..

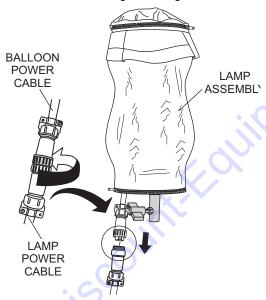


Figure 13. Disconnecting Power Cables

- 2. Remove both S-type hooks (Figure 9) on the lamp power cable from the cable support holes on the offset pole.
- Unzip the zipper on the protective cover (Figure 14), and pull down cover over balloon/lamp assembly.

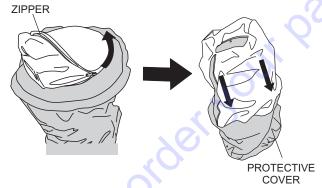


Figure 14. Unzipping the Protective Cover

4. Fully zip protective cover and fold velcro tab in place.

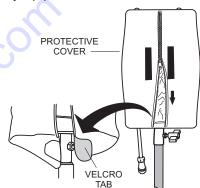


Figure 15. Zipping the Protective Cover

- 5. Loosen T-handle bolt (Figure 6-O) by turning counterclockwise and remove lamp assembly (Figure 6-N) from offset pole.
- Store lamp assembly enclosed within its protective cover (Figure 16) in a safe location where it will not be damaged.



Figure 16. Storing Lamp Assembly



CAUTION



Before performing any maintenance procedures, be sure to **READ** the lamp, balloon, and general safety guidelines in this manual. Failure to read and understand these safety guidelines could cause severe equipment damage and bodily harm.

REMOVING THE LAMP ASSEMBLY

1. Allow lamp (Figure 17) 15-20 minutes to cool before changing.

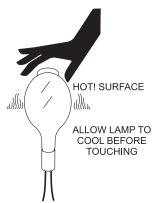


Figure 17. Hot Lamp Surface

2. If lamp assembly is attached to offset pole, loosen T-handle knob (Figure 18) that secures the lamp to the offset pole.

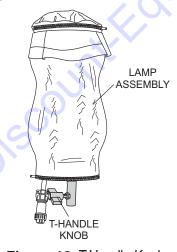


Figure 18. T-Handle Knob

3. Lift lamp assebly from offset pole, and place on a suitable work bench that is free of dirt, and sharp objects that could damage the balloon.



CAUTION



DO NOT use excessive force when zipping or unzipping the balloon. The possibility exists of the zipper tearing, which would make the balloon unusable.

REMOVING THE BALLOON

1. Expose the balloon (Figure 19) by pulling down on the velcro tabs and unzip the protective cover as shown in Figure 7. Next, fold the protective cover into itself and zip

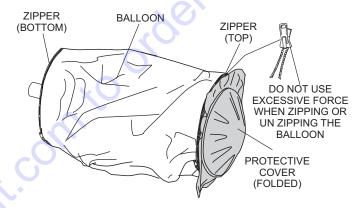


Figure 19. Exposing the Balloon

Unzip the zipper (Figure 19) at the bottom of the balloon and roll the balloon envelope upwards to expose the lamp (Figure 20). Remove the lamp guard to gain access to the lamp. DO NOT use excessive force when unzipping the balloon.

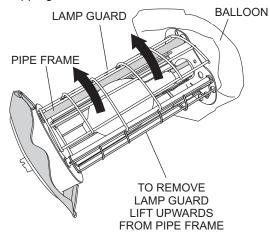


Figure 20. Removing the Lamp Guard

3. Push down and hold the lamp holder (spring loaded) away from the lamp (Figure 21). Unscrew the lamp (turn counterclockwise) from the lamp socket.

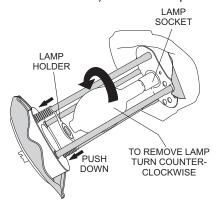


Figure 21. Removing the Lamp

INSTALLING A NEW LAMP

- When installing a new lamp (Figure 22) use only MQ recommended type lamp. See parts section of this manual. Failure to use correct type lamp could adversely affect lighting capability and may cause damage to the equipment.
- Push down and hold the lamp holder (spring loaded) away from the lamp. Screw the lamp (turn clockwise) into the lamp socket. Gently place the lamp holder firmly over the top of the lamp. This will prevent the lamp from touching the lamp guard or pipe frame.

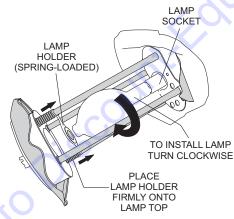


Figure 22. Installing the Lamp

RE-INSTALLING THE LAMP/BALLOON ASSEMBLY

1. Reinstall the lamp guard (Figure 23). Be careful not to install the lamp guard in the wrong direction.

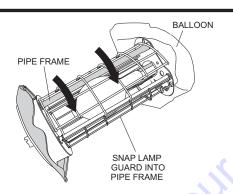


Figure 23. Installing the Lamp Guard

- 2. Zip up the zipper at the bottom (Figure 19) of the balloon and pull down the balloon envelope to cover the lamp
- 3. Place the lamp/balloon assembly back onto the mast.
- 4. Tighten the T-Handle Bolt Lock to secure the lamp to the mast.
- 5. Reinstall the protective cover over the balloon/lamp assembly. Be sure to fold the velcro tabs.
- 6. Reconnect the power cables.

REPLACING THE BALLOON

- 1. Follow the procedures as outlined in the "Removing the Balloon Lamp" assembly section.
- 2. Unzip the zipper at the bottom and top of the balloon. Slide the balloon over the top of the lamp guard as shown in Figure 24.

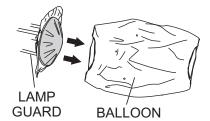


Figure 24. Removing the Balloon

3. Slide the new balloon over the top of the lamp guard as shown in Figure 25. Zip up the zipper at the bottom and top of the balloon.

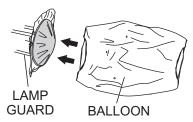


Figure 25. Removing the Balloon

MAINTENANCE

CAUTION



DO NOT replace filter immediately, allow a sufficient amount of time for the lamp assembly to cool down before changing filter

FILTER REPLACEMENT

- 1. Remove the balloon as described in the "Removing the Lamp/Balloon" section.
- 2. Disconnect the lamp power cable (Figure 5).
- 3. Rotate the balloon/lamp base assembly so that the filter is facing upwards. See Figure 26.

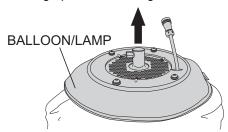


Figure 26. Balloon/Lamp Placement

4. Turn the three locking tabs (Figure 27) inward to release the plate. Remove plate and filter.

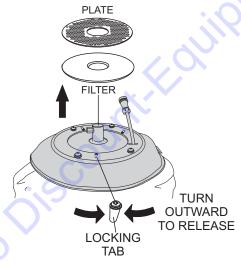


Figure 27. Filter Removal

5. Install a new filter over the brace as shown in Figure 28. Be sure to align the cut of the filter over the brace.

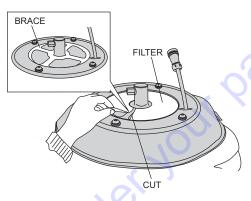


Figure 28. Filter Placement



CAUTION

When placing the filter element, always align the cut of the filter on top of the brace. This will keep the filter from being dislodged and getting damaged.

6. Turn the three retaining tabs (Figure 29) outward so that they touch the lamp base.

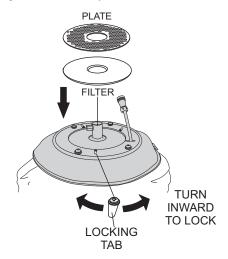


Figure 29. Filter/Plate Install

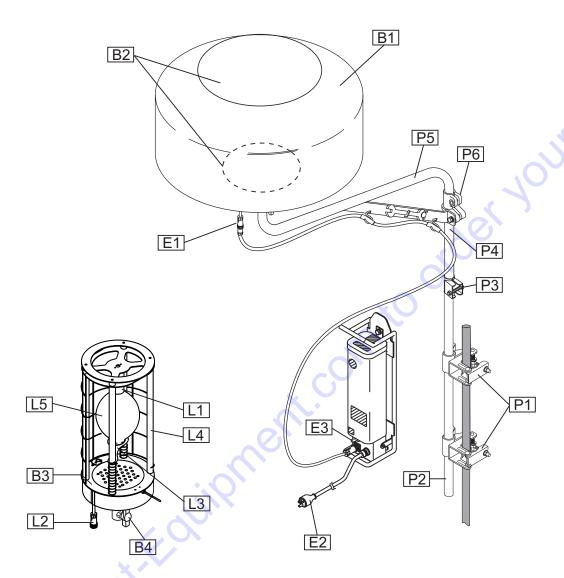


Figure 30. Maintenance Check Points

For a prolonged life cycle an extended quality follow the recommended GloBug lighting system service guidelines as referenced in Figure 30 and Table 4.

		Table 4. Perio	dic Check and Maintenance		
Figu	Figure Part		Check Item	Solution	Frequency
	L1	Lamp (Base)	Lamp base loose?	Screw in securely	*
	L2	Connector	Cable disconnected or loose?	Connect securely	*
Lamp	L3	Lamp Holder	Lamp holder loose?	Replace	*
	L4	Pipe Frame	Frame pipe skewed?	Replace	*
	L5	Lamp	Defective lamp?	Replace	
	B1	Balloon (Envelope)	Defective or dirty?	Replace	*
Balloon	B2	Zipper	Broken?	Replace	*
Dalloon	B3	Fan Motor (Blower)	Not working properly?	Repair or replace	*
	B4	T-Handle bolt (Balloon)	Broken?	Replace	*
	E1	Power Cable	Defective or worn cable?	Replace	*
Electric	E2	Plug	Damaged?	Replace	*
	E3	Lamp Switch	Damaged or not working properly?	Replace	*
	P1	Clamp	Broken?	Repalce	*
	P2	Support pipe	Support pipe bent or damaged?	Replace	*
Pole	P3	Support bolt	Support bolt loose?	Tighten securely	*
Pole	P4	Straight pole	Straight pole bent or damaged?	Repalce	*
	P5	Offset pole	Offset pole bent or damaged?	Replace	*
	P6	Offselt bolt	Offset bolt loose?	Tighten securely	*
❖ - Daily	Check	■ - Every 20 Hours			

TROUBLESHOOTING (LAMP)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the diagnosis based on the Lamp Troubleshooting (Table 5) information shown below. If the problem cannot be remedied, please leave the unit just as it is and consult Discount-equipment.

Table 5. Lamp Troubleshooting				
Symptom	Possible Problem	Solution		
	Is AC power turned on?	Turn on AC power		
	Is AC power cable connected?	Connect AC power cable.		
	Is lamp power cable connected?	Connect lamp power cable.		
	Is lamp power cable defective?	Replace lamp powe cable.		
	Is ballast ON/OFF switch turned on?	Place switch in the ON position.		
	Is lamp loose?	Screw lamp securely into socket.		
	Is lamp lit?	Replace lamp.		
Lamp does not light	Is model of lamp compatible?	Use genuine MQ lamp.		
	Is output voltage at ballast correct?	No-load voltage is between 380~456 VAC. If voltage is low check 22 µF capacitor.		
	Are any other electric appliances (other than light tower) plugged into power source?	Unplug all other appliances.		
	Is lamp not cool enough to light again? (Interval of 20 to 30 minutes is required before turning on lamp again)	Wait for lamp to cool down		
Lamp only lights for a short time.	Is ambient temperature too high (more than 104 °F (40 °C)?	Move lamp where there is proper ventilation.		
Balloon does not	Is fan motor (blower) not working properly?	Check or repair fan motor (blower).		
inflate.	Is balloon envelope defective?	Repair or replace balloon envelope.		

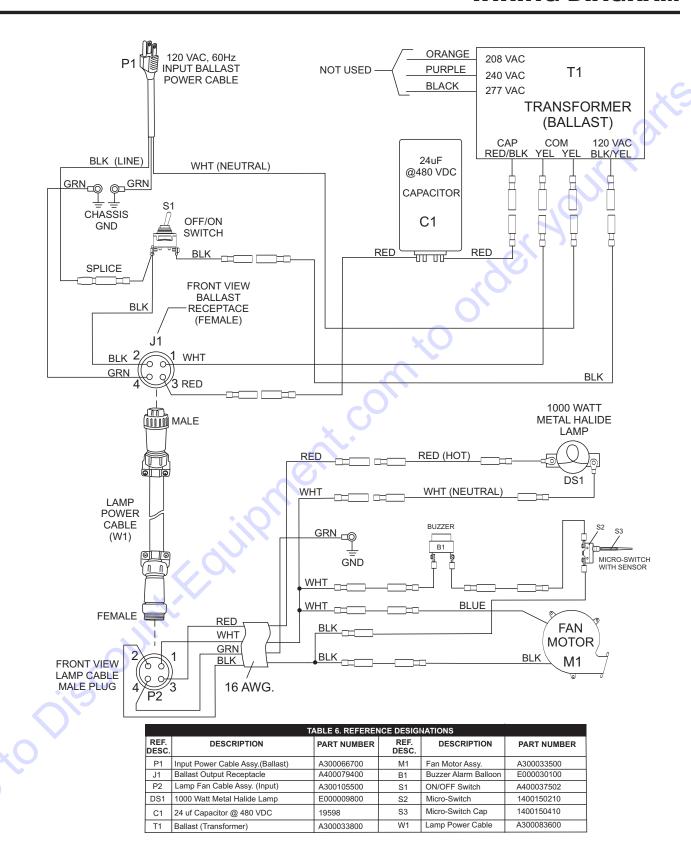


Figure 31. Electrical Wiring Diagram

VOLTAGE MEASUREMENTS

A

DANGER

Be careful when performing voltage measurements. The possiblity exists of electrical shock if fingers make contact with connector pins, thus causing **bodily harm** or even death.

NEVER allow multimeter test leads to make contact with each other. The possibility exists of *electrical short* causing severe damage to the equipment, bodily harm, electrocution, and even death!

VOLTAGE MEASUREMENT (BALLAST NO-LOAD)

- 1. Remove lamp from pipe frame as refrenced in maintenance section of this manual.
- 2. Place lamp in a safe place where it will not get damaged or broken.
- Apply 120 VAC power to the ballast. Place ballast ON/ OFF switch in the ON position.
- Using a multimeter (Figure 32) measure the output voltage at the ballast receptacle. Pins 1-3 (lamp) should read between 380~465 VAC. Pins 1-2 (fan motor) should read 120 VAC.
- 5. Place the ballast ON/OFF switch in the OFF position.

VOLTAGE MEASUREMENT (LAMP CABLE NO-LOAD)

- 1. Connect the male end of the lamp power cable to the ballast female receptacle.
- 2. Place ballast ON/OFF switch in the ON position.
- 3. Using a multimeter measure the output voltage at the female end of the of the lamp power cable. Pins 1-3 (lamp) should read between 380~465 VAC. Pins 1-2 (fan motor) should read 120 VAC.
- If voltage is not present, replace lamp power cable.
 Make sure connection at ballast end of cable is tight and secure (locked).
- 5. Place the ballast ON/OFF switch in the OFF position

VOLTAGE MEASUREMENT (LAMP SOCKET NO-LOAD)

- Connect the female end of the lamp power cable to the male power connector that is attached to the lamp assembly.
- 2. Place ballast ON/OFF switch in the ON position.
- Using a multimeter, place one test lead on the lamp socket tab, place the other lead on the threaded portion of the socket.
- A voltage between 380~465 VAC should be present between lamp socket tab and threaded portion of the lamp socket. If the voltage is not present, check wiring inside pipe frame and lamp socket.
- 5. Place the ballast ON/OFF switch in the OFF position.

VOLTAGE MEASUREMENT (FAN MOTOR)

- Make sure the lamp power cable is securely connected between the ballast receptacle and the lamp assembly power connector.
- 2. Place the ballast ON/OFF switch in the OFF position. It is not required for the fan motor test measurement.
- Apply 120 VAC power to the ballast and listen for the whirring sound of the fan motor. This sound will indicate that the fan motor is running.
- 4. If the fan motor is not running, use a multimeter and place one test lead on the black wire and the other lead on the blue wire as shown in Figure 32.

NOTICE

You may have to use test leads that can prick the wire insulation. The voltage measured should be 120 VAC. If 120 VAC is not present check wiring inside pipe frame.

 Additional voltage check can me made at the fan motor capacitor. Place the multimeter test leads across the tabs on the capacitor. A voltage of approximately 208 VAC should be measured. If 208 VAC is not present check or replace capacitor.

VOLTAGE MEASUREMENTS

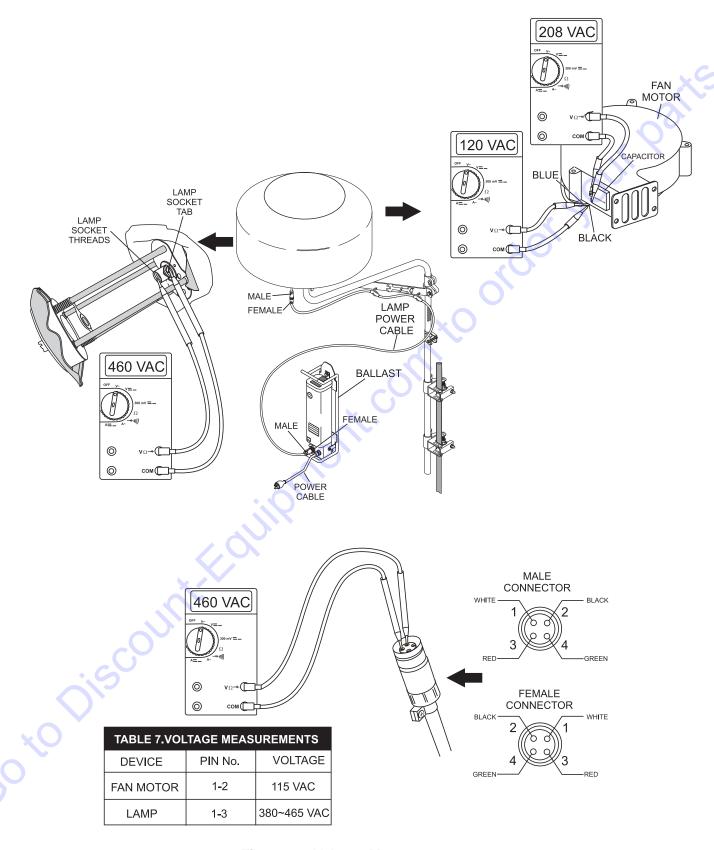


Figure 32. Voltage Measurements

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.

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:

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	12345	BOLT	1	. INCLUDES ITEMS W/*
2*		WASHER, 1/4 IN.		. NOT SOLD SEPARATELY
2*	12347	WASHER, 3/8 IN.	1	. MQ-45T ONLY
3	12348	HOSE	A/R	. MAKE LOCALLY
4	12349	BEARING	1	. S/N 2345B AND ABOVE

NO. Column

Unique Symbols - All items with same unique symbol $(\star, \#, +, \%, \text{ or } >)$ 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 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.



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 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"

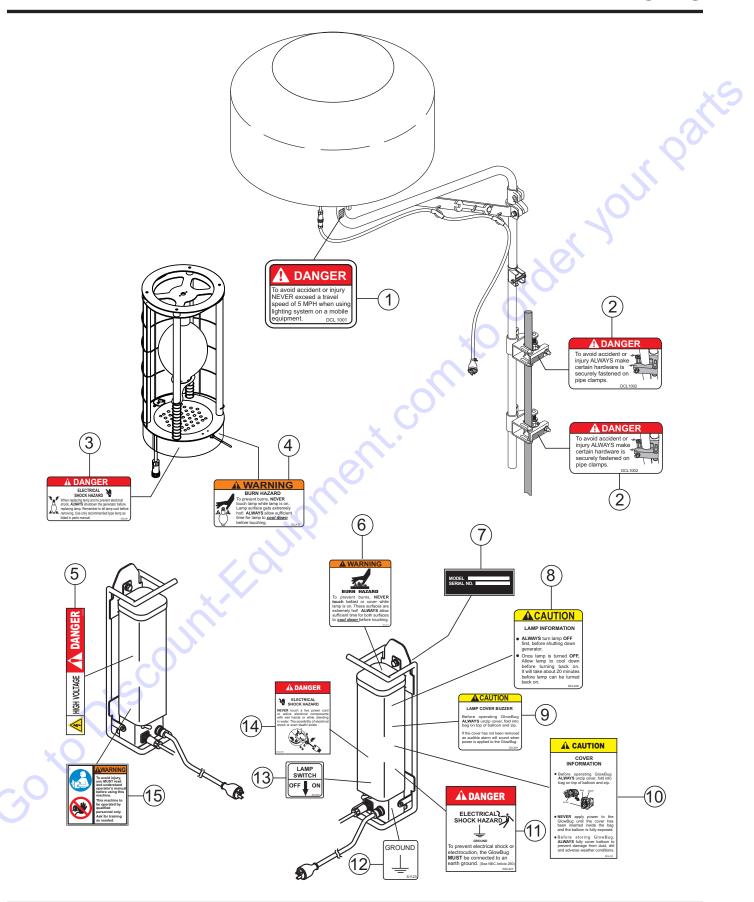
"Make/Obtain Locally" - Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"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.

GB114BP/BS GLOBUG LIGHTING SYSTEM

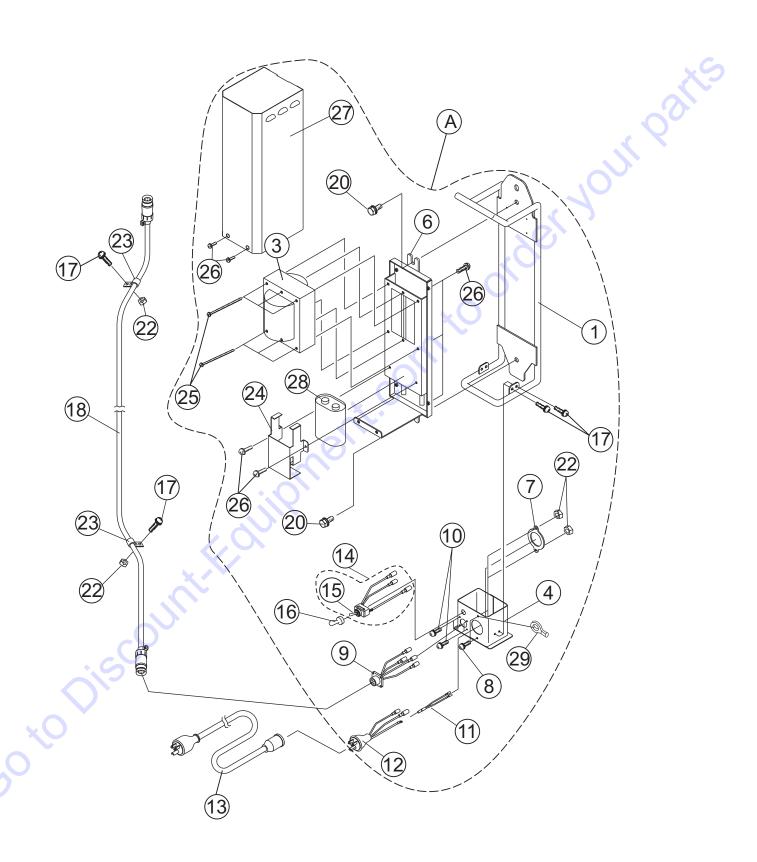
GB114	4BP/BS GLOBU	JG LIGHTING SYSTEM	
1 to 3	units		
2 2	P/N LB41827A300033800A3000384001654000230		OUI POR
			orger ho
			COLUMB
		(d)iipmer	
	CCC		
X (Oils		

NAMEPLATE AND DECALS



NAMEPLATE AND DECALS

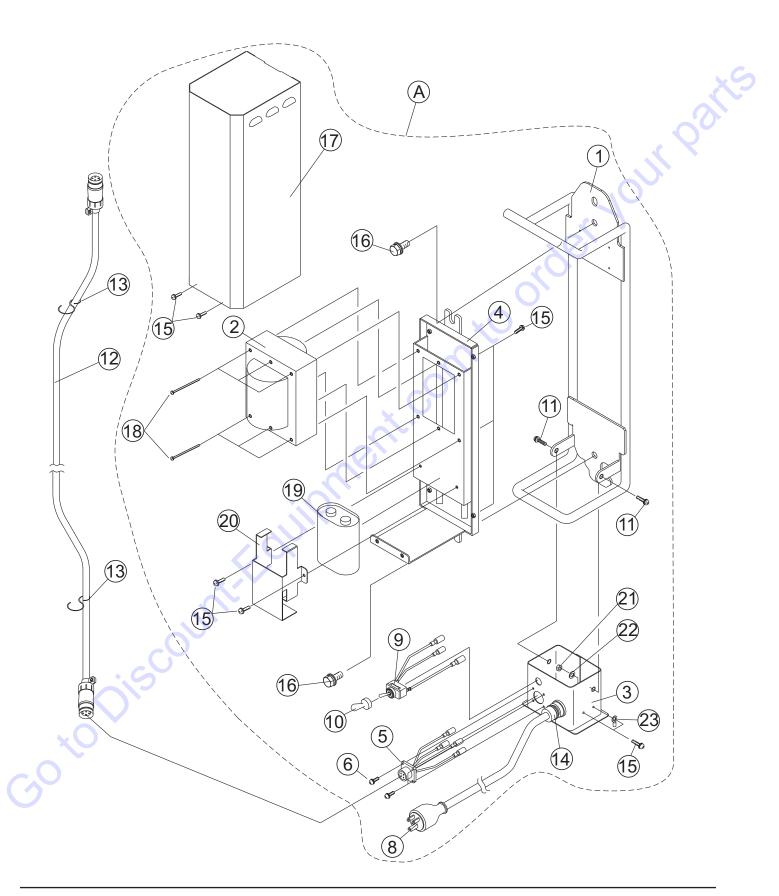
NO. 1 2	PART NO. DCL1001 DCL1002	PART NAME DECAL; DANGER, TRAVEL SPEED DECAL; DANGER, PIPE CLAMP	QTY. REMARKS1 REPLACES P/N A400084000
3	DCL416	DECAL; DANGER, ELECTRICAL SHOCK HAZ.	1
4 5	DCL417 DCL418	DECAL; WARNING, BURN HAZARD (LAMP) DECAL; DANGER, HIGH VOLTAGE	
6 7	DCL415	DECAL; BURN HAZARD (BALLAST) NAMEPLATE	1
8	DCL409	DECAL; CAUTION, LAMP INFORMATION	1
9 10	DCL404 DCL413	DECAL; CAUTION LAMP COVER BUZZER DECAL; CAUTION COVER INFORMATION	1 100
11	DCL427	DECAL; DANGER, ELECTRICALSHOCK HAZARD	
12 13	0800628504 DCL424	DECAL; GROUND DECAL: LAMP SWITCH ON/OFF	
14 15	DCL410 35137	DECAL; DANGER, ELECTRICAL SHOCK (CORDS) DECAL; WARNING, READ MANUAL	
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	-CC		
	AIS .		
XC)		
0			



BALLAST ASSEMBLY. S/N G30001

<u>NO.</u>	<u>PART NO.</u>	PART NAME	QTY. REMARKS
Α	A000017700	BALLAST ASSY	1 INCLUDES ITEMS W/\$
1\$	A100010202	FRAME	1
3\$	A300033800	BALLAST (TRANSFORMER) CP	
4\$	A200016900	CASE (WIRE)	1
6\$	A200018100	CASE (BALLAST) 1 CP	1
7\$	A400035200	HOLDER (PLUG)	1
8\$	0020104015	SCREW & WASHER (M4x15)	1 2 1 4
9\$	A400037600	CABLE (LAMP) CP	1
10\$	0020503012	SCREW & WASHER (M3x12)	4
11\$	A400038200	CABLE (JOINT)	1
12\$	A400035800	PLUG CP	1
13	A300034700	CABLE (MAIN) CP	1
14\$	A400037500		11 INCLUDES ITEM W/ #
15\$#	E000036400	TOGGLE SWITCH	1REPLACES P/N 1406000610
16\$	1406000700	RUBBER CAP	1
17	0023304008	SCREW & WASHER (M4x8)	4
18	A300034800	CABLE (LAMP) CP	↓ 1
20	0013510025	BOLT & WASHER (M10x25)	2
22	0033104000	NUT (M4)	4 2
23	A400034100	CLAMP	2
24\$	A200018200	HOLDER	<i>)</i> 1
25\$	0023305090	SCREW & WASHER (M5x90)	6
26\$	0023304012	SCREW & WASHER (M4x12)	10
27\$	A100013500	CASE (BALLAST) 2 CP	1
28\$%	19598	CAPACITOR, 24 µF @ 480 VDC	1
29\$	1367020430	GROUNDING TERMINAL	1
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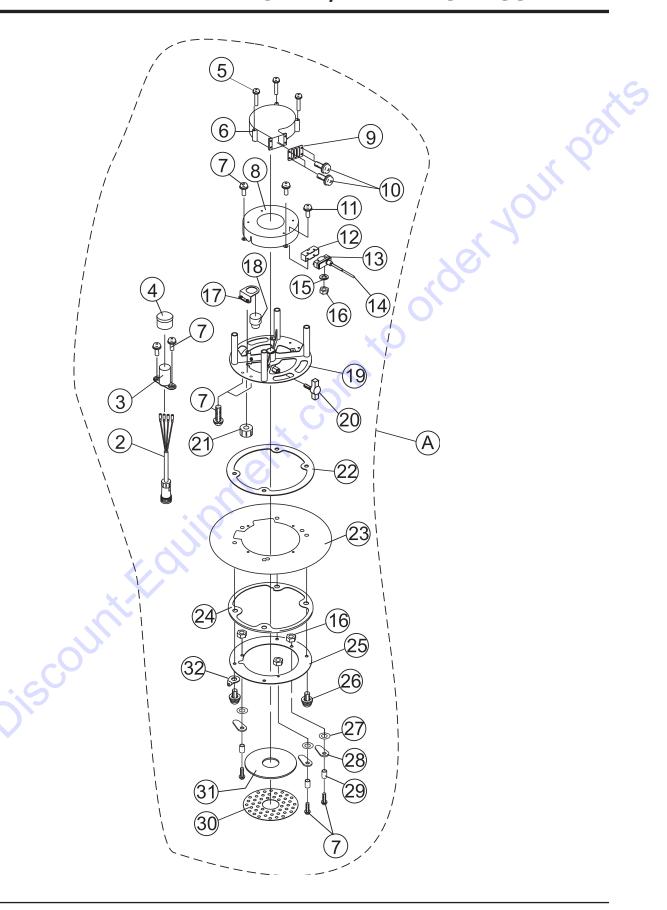
BALLAST ASSEMBLY. S/N G30002 & ABOVE



BALLAST ASSEMBLY. S/N G30002 & ABOVE

Α	PART NO. A000017702	PART NAME BALLAST ASSY	<u>QTY.</u> 1	REMARKSINCLUDES ITEMS W/\$
1\$ 2\$	A100015401 A300033800	FRAME BALLAST (TRANSFORMER) CP	1	INCLLIDES ITEM W// 9/
2\$ 3\$	A200020904	CASE (WIRE)	1 1	
4\$	A200018100	CASE (BALLAST) 1 CP	1	er your of
5\$ 6\$	A400079400 0023303008	CABLE (LAMP) CP SCREW & WASHER (M3x8L)	1 4	
8\$	A300066700	CABLE (MAIN) CP	1	1 4
9\$	A400037502	SWITCH ASSY.	1	
10\$ 11\$	1406000700 0023306012	RUBBER CAP SCREW (M6x12L)	1	10
12	A300083600	CABLE (LAMP) CP	2 1	
13	E000028200	S-HOOK	2 2	70.
14\$ 15\$	E000045000 0023304012	CABLE CLAMP SCREW & WASHER (M4x12L)	12	O *
16\$	0013510025	BOLT & WASHER (M10x25)	2	
17\$ 18\$	A100013500 0023305090	CASE (BALLAST) 2 CP SCREW & WASHER (M5x90)	1 6	
19\$%	A300038400	CAPACITOR, 24 µF @ 480 VDC	1	
20\$	A200018200	HOLDER	1	
21\$ 22\$	0033104000 0043204000	NUT (M4) WASHER, LOCK (M4)	2 2	
23\$	1367020430	TERMINAL (R)	1	
	•	JINT-FOUNT		
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FAN BLOWER/LAMP BASE ASSEMBLY



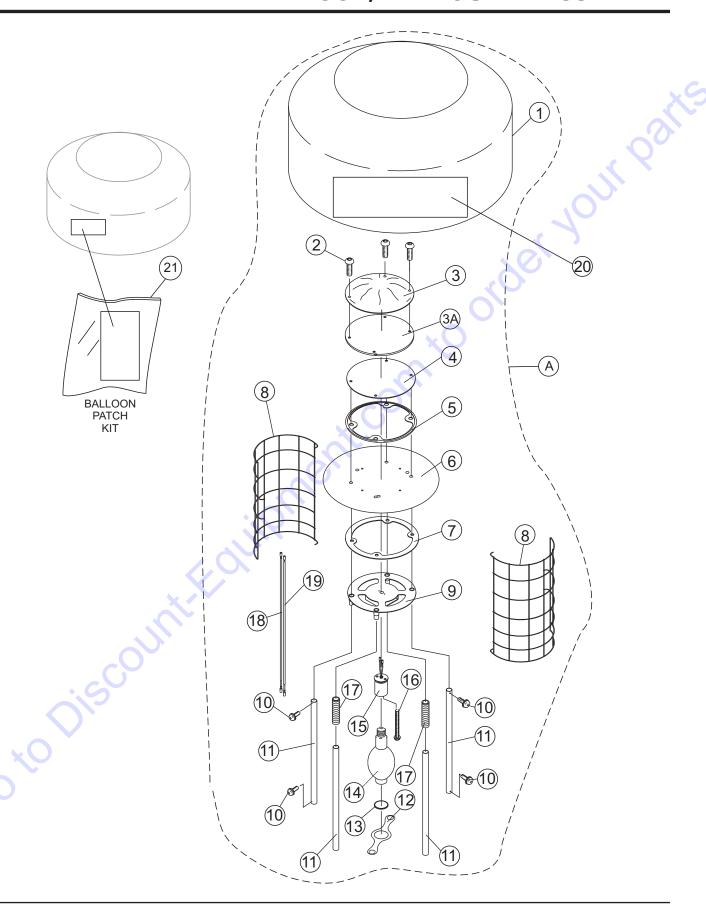
FAN BLOWER/LAMP BASE ASSEMBLY

<u>NO.</u> A	PART NO. A000017600	PART NAME BALLOON ASSY	QTY.	REMARKS S/N G30001
\wedge	A000017000			SEE NOTE 1
Α	A000017601	BALLOON ASSY	1	S/N G30002 AND ABOVE
	7.000017001			SEE NOTE 2
2\$	A300033600	CABLE 1 (BALLOON) CP, QUICK-DISCONNECT CABLE 1 (BALLOON) CP, THREADED	1	S/N G30001
2%	A300105500	CABLE 1 (BALLOON) CP, THREADED	1	S/N G30002 AND ABOVE
3#	A400038900	COVER (WIRE)	1	
4#	E000011900	COVER	1	
5#	0023305060	SCREW & WASHER (M5x60)	3	
6#	A300033500	FAN MOTOR CP	1	10
7#	0024304008	SCREW (M4x8)	9	4
8#	A200017702	FAN SUPPORT	1	
9#	A400037400	GUARD (FAN)	1	70,
10#	0023105008	SCREW (M5x8)	2	
11#	0023204030	SCREW (M4x30)	2	
12#	1400150300	MICRO SWITCH COVER	Y	
13#	1400150210	MICRO SWITCH	1	
14#	1400150410	MICRO SWITCH CAP (SENSOR)	1	
15#	0043104000	WASHER (M4)	2	
16#	0033104000	NUT (M4)	5	
17#	A400038601	BRACKET (BUZZER)	1	
18#	E000030100	BUZZER FLANGE	1	
19\$	A100013301	FLANGE	1	S/N G30001
19%	A100013302	FLANGE	1	S/N G30002 AND ABOVE
20#	E000065400	T-HANDLE KNOB CABLE CLAMP	1	0/11/000004
21\$	E000010400	CABLE CLAMP	1	S/N G30001
21%	E000045000	CABLE CLAMP	1	S/N G30002 AND ABOVE
22#	2204500130	SEAL (NORMAL)	1	
23#	1800001100	SHEET (BOTTOM)	1	
24#	2204500230	PACKING PLATE (POTTOM)	1	
25#	A300034400	PLATE (BOTTOM)	0	
26#	0014808025	BUTTON SCREW & WASHER (M8x25)	0	
27#	E000009701 A400030700	WAVE WASHER (M5)	3 3	
28#		STOPPER (FILTER) CP SPACER	3	
29# 30#	E000010301 A200018000	PLATE (AIR)	ა 1	
30# 31#	A400038300	FILTER 200 (AIR)	1	
31# 32#	2204510110	WASHER	1	
JZII	2204310110	WAOLIFI	ı	

NOTE 1: Balloon assembly A includes all items w/ # and \$ on the Fan Blower/Lamp Base Assy parts list on this page AND on the Balloon/LampGuard Assy. parts list.

NOTE 2: Balloon assembly A includes all items w/ # and % on the Fan Blower/Lamp Base Assy parts list on this page AND on the Balloon/LampGuard Assy. parts list.

BALLOON/LAMP GUARD ASSEMBLY



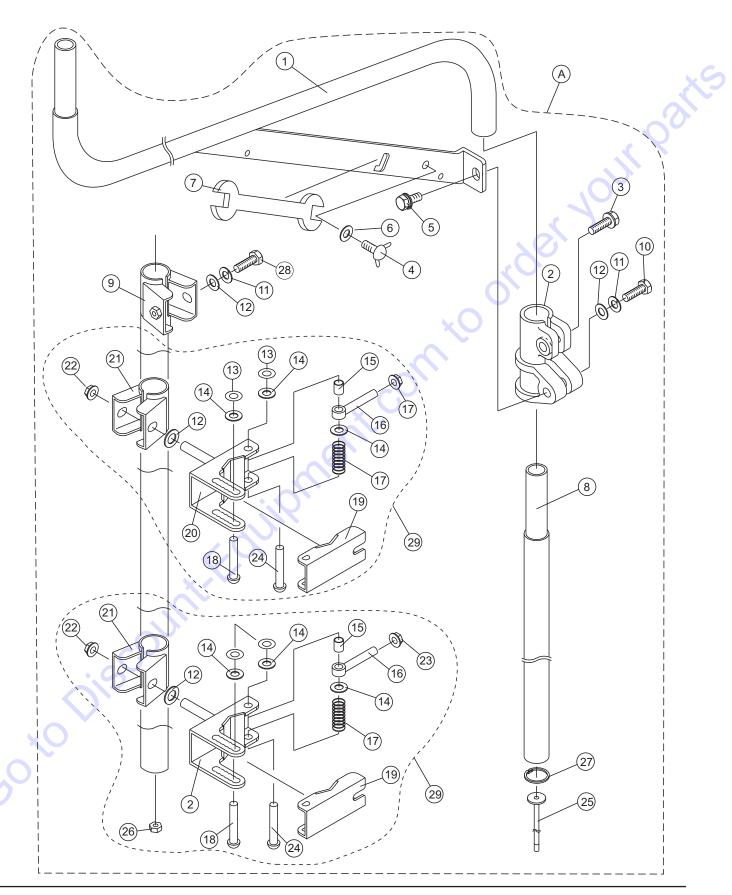
BALLOON/LAMP GUARD ASSEMBLY

NO.	PART NO.	PART NAME	QTY.	REMARKS
Α	A000017600	BALLOON ASSY	1	
		BALLOON ASSY		SEE NOTE 1
Α	A000017601	BALLOON ASSY	1	
				SEE NOTE 2
1	GBBAL120	BALLOON CLOTH CP (OVAL-SHAPED)	1	OPTIONAL
1#	GBBAL115D	BALLOON CLOTH CP (DRUM-SHAPED)	1	.0
2#	0014808025	BUTTON SCREW & WASHER (M8 X 25)	4	, 0
3#	A100028505	BALLOON COVER	1	REPLACES P/N A100028503
3A#	A300060202	SEAL (TOP)	1	
4#	2204220130	PLATE (CAP)	1	10
5#	2204500230	PACKING	1	
6#	1800001000	SHEET (TOP)	1	
7#	2204500130	SEAL NORMAL (TOP)	1	76,
8#	A100010800	LAMP GUARD	2	0
9#	A300026901	PLATE (LAMP)	1	
10#	0024304008	SCREW (M4x8)	4	
11#	2204400130	FRAME PIPE	4	
12#	A300032700	PLATE (LAMP HOLDER)	1	
13#	2204231730	RUBBER (LAMP)	1	
14#	E000009800	LAMP	1	REPLACES P/N LB41827
15#	E000009601	SOCKET ASSY	1	
16#	0025304025	SCREW & WASHER (M4x25)	2	
17#	2204231530	SPRING (LAMP)	2	
18#	A400038400	CARLE (LAMP) 1 B CP	1	
19\$	A400038500	CABLE (LAMP) 1 G CPCABLE (LAMP) 1 W CP	1	S/N G30001
19%	A400038501	CABLE (LAMP) 1 W CP	1	S/N G30002 AND ABOVE
20	GBBALD1	BLANK MESSAGE STRIP (OPTIONAL)	1	
21	1654000230	BALLOON PATCH KIT (OPTIONAL)		
	. 30 .000=00			

NOTE 1: Balloon assembly A includes all items w/ # and \$ on the Balloon/LampGuard Assy parts list on this page AND on the Fan Blower/Lamp Base Assy. parts list.

NOTE 2: Balloon assembly A includes all items w/ # and % on the Balloon/LampGuard Assy parts list on this page AND on the Fan Blower/Lamp Base Assy. parts list.

OFFSET POLE ASSEMBLY



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OFFSET POLE ASSEMBLY

<u>NO.</u>	PART NO.	PART NAME	QTY. REMARKS
Α	A000018200	OFFSET POLE ASSY	1 INCLUDES ITEMS W/ \$
1\$	A200019103	OFFSET POLE	1
2\$	A200018303	ADAPTER (OFFSET PIPE)	1
3\$	0013512045	BOLT AND WASHER (M12X45)	1
4\$	0014210025	WING BOLT (M10X25)	1
5\$	0013510025	BOLT AND WASHER (M10X25)	1
6\$	0043110026	WASHER (M10)	1
7\$	E000028100	17/19 MM WRENCH	1
8\$	A300040904	POLE 2	1
9\$	A200021902	POLE 1	1
10\$	0013112055	BOLT (M12X55)	1
11\$	0043212000	SPRING WASHER (M12)	2
12\$#	0043112000	WASHER (M12)	4
13\$#	0030810000	PUSH NUT (M10)	4
14\$#	0043110000	WASHER (M10)	6
15\$#	E000028300	SPACER	2
16\$#	E000028401	BOLT (M10X80)	2
17\$#	A400067600	SPRING	2
18\$#	A400061500	RIVET	2
19\$#	A300053901	CLAMP 1	2 2 2
20\$#	A200025203	CLAMP 2	
21\$#	A300043601	BAND (POLE) 3T	2
22\$#	E000042101	NUT (M12)	2
23\$#	E000042001	NUT (M10)	2
24\$#	0054010060	RIVET (10-60)	2
25\$	A400082101	SHAFT (STOPPER) CP	1
26\$	0033206000	SELF LOCK NUT (M6)	1
27\$	0040825000	C-CLIP	1
28\$	0013112065	BOLT (M12X65)	1
29\$	A000025300	POLE CLAMP ASSEMBLY	1NCLUDES ITEMS W/ #

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