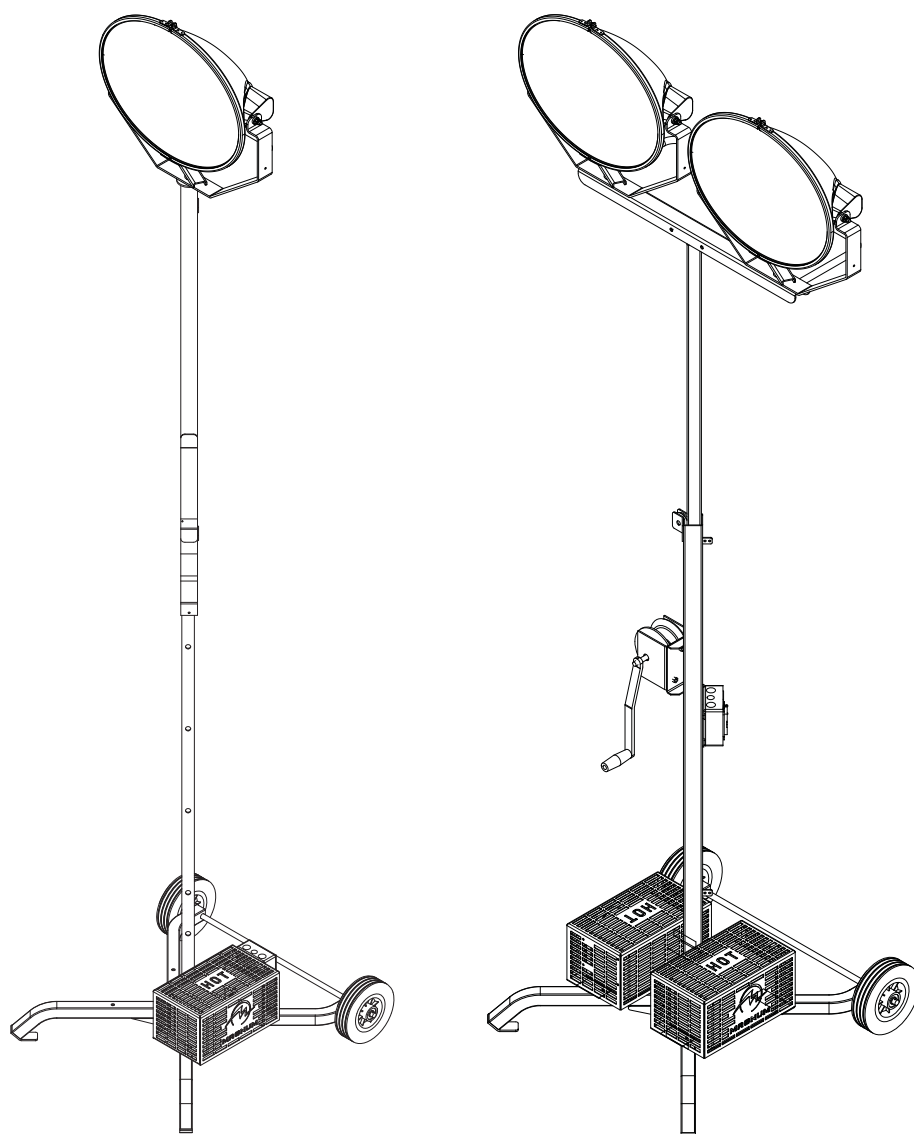




PORTABLE LIGHTS
MPL1000 • MPL2000



OPERATING/PARTS MANUAL

INTRODUCTION

This manual provides information and procedures to safely operate and maintain the portable lights. For your own safety and protection from physical injury, carefully read, understand, and observe the safety instructions described in this manual. *The information contained in this manual was based on units in production at the time of publication. Magnum Products LLC reserves the right to change any portion of this information without notice.*

DO NOT MODIFY or use this equipment for any application other than which it was designed for.

Magnum Products LLC recommends that a trained and licensed professional perform all electrical wiring and testing functions. Any wiring should be in compliance with the United States National Electric Code (NEC), state and local codes and Occupational Safety and Health Association (OSHA) guidelines.

Keep a copy of this manual with the unit at all times. Additional copies are available from Magnum Products LLC, or can be found at **www.m-p-llc.com**.

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U.S.A.
Phone: 920-361-4442
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www.m-p-llc.com

For technical or parts QUESTIONS, please contact Magnum Products' Customer Support or Technical Support team at 920-361-4442 or toll free at 1-800-926-9768. Please have your serial number available.

Visit www.m-p-llc.com to download or print the current parts manual(s) for all your Magnum Products equipment and online parts ordering options. Parts manuals can also be purchased by calling your local Magnum Products distributor.

To ORDER SERVICE PARTS, please contact the dealer from which you purchased the unit, or call Magnum Products to locate a dealer in your area.

Unit Model Number: _____

Unit Serial Number: _____

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SAFETY NOTES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, WARNINGS, CAUTIONS, NOTICES and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury or death. The following formatting options will apply when calling the readers attention to the DANGERS, WARNINGS, CAUTIONS, NOTICES and NOTES.

⚠ 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, may result in minor or moderate injury.

NOTICE

Indicates a hazardous situation which, if not avoided, may result in property or equipment damage.

Note: Notes contain additional information important to a procedure and will be found within the regular text body of this manual.

OPERATING SAFETY



Before using the portable lights be sure you read and understand all of the instructions! This equipment was designed for specific applications; **DO NOT** modify or use this equipment for any application other than which it was designed for. Equipment operated improperly or by untrained personnel can be dangerous! Read the operating instructions and familiarize yourself with the location and proper use of all instruments and controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate or set up the portable lights. The following points should be practiced at all times:

- The area immediately surrounding the portable light should be dry, clean, and free of debris.
- Position and operate the portable light on a firm, level surface.
- **NEVER** connect a unit in need of repair to a power source.
- Lower mast when not in use.
- Lower mast if high winds or electrical storms are expected in the area.
- The mast extends up to 11 ft. (3.4 m). Make sure area above the unit is open and clear of overhead wires and obstructions.
- Bulbs become extremely hot in use! Allow bulb and light fixture to cool 10-15 minutes before handling.
- Keep area around the unit clear of people while raising and lowering mast!
- **NEVER** raise, lower, turn or adjust mast while light(s) are on!
- Keep all body parts and other loose items clear of winch and cable during operation and while in tension.
- If for any reason any part of mast hangs up or winch cable develops slack while raising or lowering tower, STOP immediately! Contact an authorized service representative.
- **NEVER** use portable light if insulation on electrical cord is cut or worn through.
- **NEVER** operate lights without protective lens cover in place or with a lens cover that is cracked or damaged!
- **NEVER** operate a unit while tired, distracted, or under the influence of drugs or alcohol.

SERVICE SAFETY



This unit uses high voltage circuits capable of causing serious injury or death. Only a qualified electrician should troubleshoot or repair electrical problems occurring in this equipment.

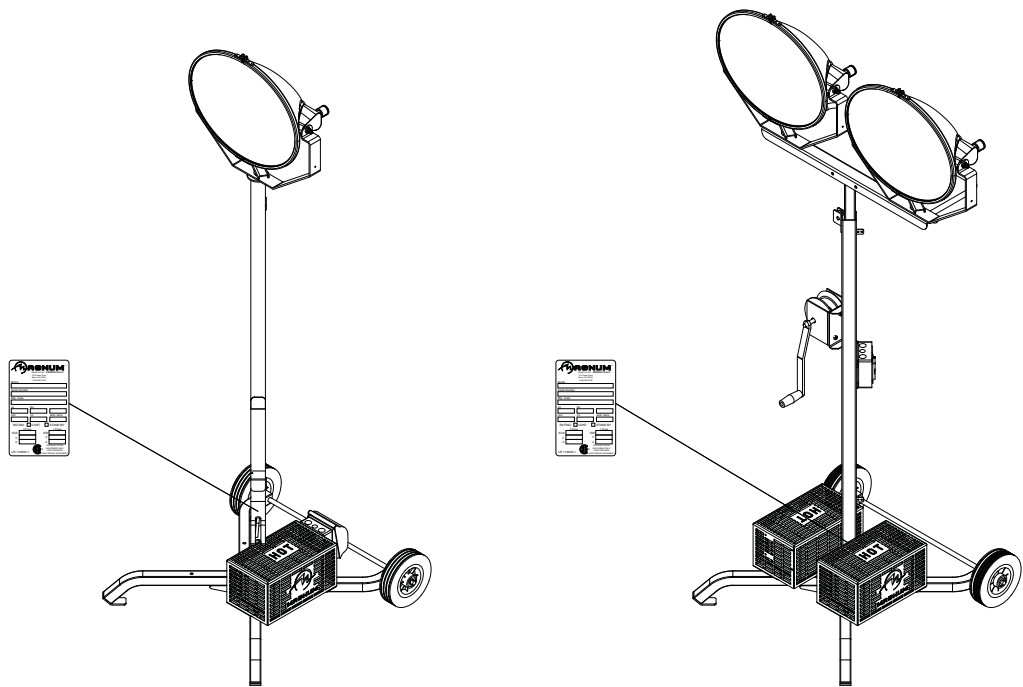
- Before servicing, make sure portable light is unplugged from its power source. NEVER perform even routine service (part replacement, cleaning, etc.) unless the unit is unplugged.
- **NEVER** allow water to accumulate around the base of the portable light. If water is present, **DO NOT** service!
- **NEVER** service electrical components if clothing or skin is wet. If the unit is stored outside, check for any moisture and dry the unit before use.
- **NEVER** wash the unit with a power washer or high pressure hose.
- Keep hands, feet, and loose clothing away from moving parts on portable light.
- Wear heavy leather gloves when handling winch cables. Never let cables slip through bare hands.
- Replace all guards and safety devices immediately after servicing.
- Replace all missing and hard-to-read labels by calling Magnum Products, LLC at 1-800-926-9768. Labels provide important operating instructions and warn of dangers and hazards.
- Only use mild soap and water to clean the lens covers. Other chemicals may have an adverse effect on the glass.

SAFETY SYMBOL SUMMARY

This equipment has been supplied with numerous safety and operating decals. These decals provide important operating instructions and warn of dangers and hazards. Replace any missing or hard-to-read decals and use care when washing or cleaning the unit. Decal placement and part numbers can be found in the beginning of the parts section of this manual. Below is a summary of the intended meanings for the symbols used on the decals.

	Safety alert symbol; Used to alert you to potential personal injury hazards.		Read and understand the supplied operator's manual before operating unit.
	Hot surface(s) nearby.		Dangerous voltage may be present.

UNIT SERIAL PLATE LOCATION

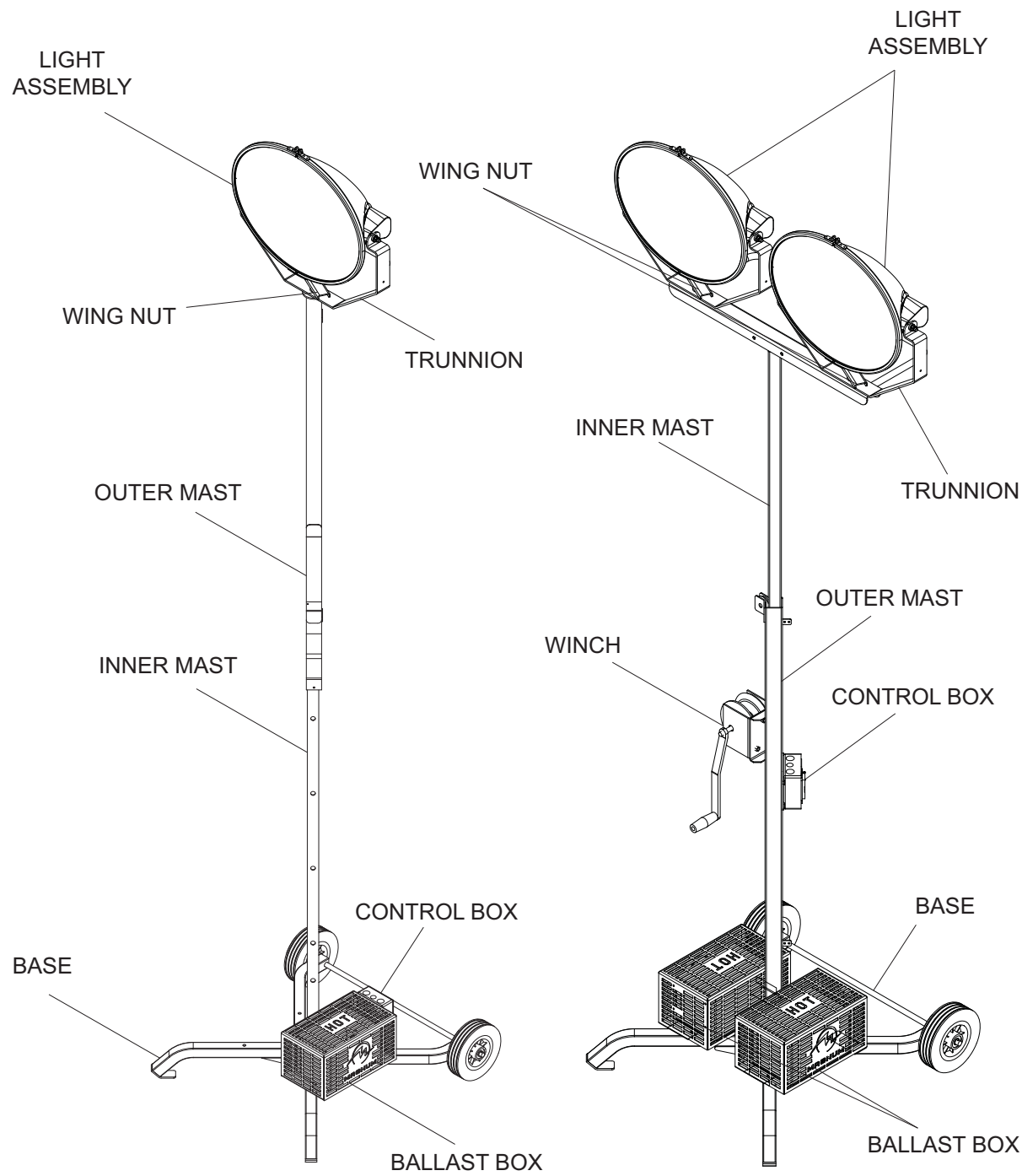


SPECIFICATIONS

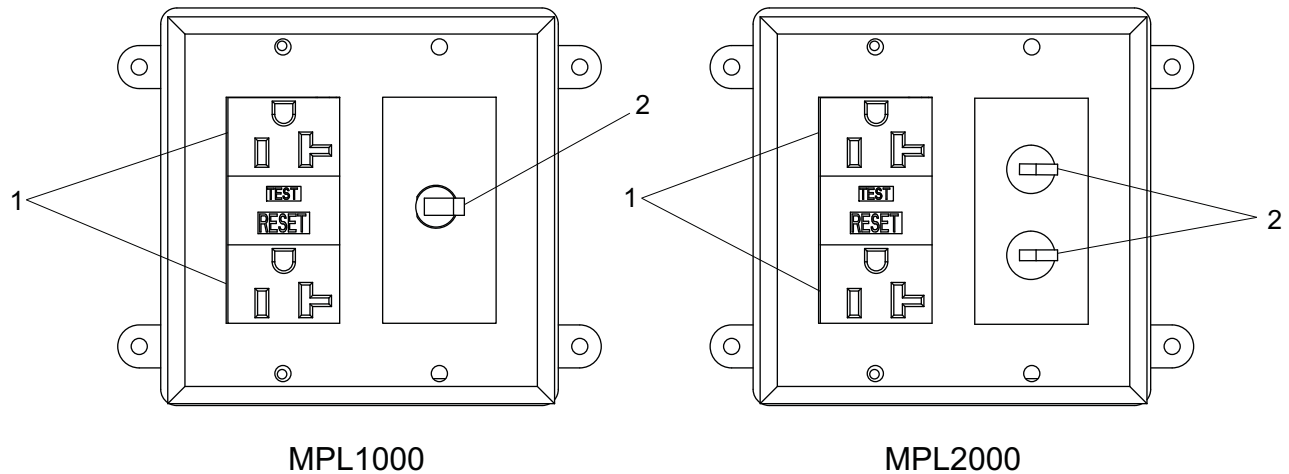
Read this manual carefully before attempting to use this portable light. The potential for property damage, personal injury or death exists if this equipment is misused or installed incorrectly. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

MAGNUM MODEL	MPL1000	MPL2000
Lighting		
Lighting Type.....	Metal halide.....	Metal halide
Ballast Type	Coil & core	Coil & core
Lumens	110,000	220,000
Electrical		
Minimum Breaker Required A	20	20
Minimum Extension Cord Gage	12	12
Maximum Extension Cord Length ft (m)	50 (15).....	50 (15)
Operating Frequency Hz	60	60
Amperage A	8.3	16.6
Dimensions		
Minimum Height ft (m)	90 (2.3).....	90 (2.3)
Maximum Height ft (m)	11 (3.4).....	11 (3.4)
Width (Base of Light) in (mm)	33.5 x 34.5 (825.5 x 863.6).....	33.5 x 34.5 (825.5 x 863.6)
Weights		
Weight lbs (kg)	117 (53).....	186 (84.4)
Wheels		
Tire Size	8" diameter, 5/8" shaft	8" diameter, 5/8" shaft

UNIT FEATURES & COMPONENTS



CONTROL PANEL COMPONENTS



1. **AUXILIARY OUTLETS:** These 120V/20A Ground Fault Interrupt (GFI) outlets supply power for accessories connected to the portable light.
2. **OFF/ON LIGHT SWITCH(ES):** One switch is supplied for each individual mast light.

PORTABLE LIGHT ASSEMBLY

Before you begin assembly of the unit, make sure all components were shipped with the unit. Remove all components from the boxes and inspect them for any damage. For more detailed assembly instructions refer to the Portable Light Assembly Instructions (PN:16767, Rev: B, 10.31.08) which were supplied with your unit at the time of shipment.

MPL1000

1. Place the base of the portable light on a firm, level area for assembly.
2. Attach the inner/outer mast assembly to the base using the included 3/8-16X2.5" bolts, flat washers, lock washers and nuts. Tighten the hardware completely.
3. Assemble the light assembly to the outer mast using the provided wing nut, star washer and flat washer. Tighten hardware completely.
4. The coiled electrical cord connects to the light assembly with a quick disconnect plug and is wired directly to the ballast box.

MPL2000

1. Place the base of the portable light on a firm, level area for assembly.
2. Attach the inner/outer mast assembly to the base using the included 3/8-16X2.5" bolts, flat washers, lock washers and nuts. Tighten the hardware completely.
3. Assemble the crossbar to the inner mast with the 3/8-18 x 2.75" bolts.
4. Assemble the light assemblies to the crossbar using the provided wing nuts, star washers and flat washers. Tighten hardware completely.
5. Connect the drape cords to the light assemblies with the quick disconnect plug.

OPERATING THE MPL1000

1. For Maximum light coverage locate the unit at ground level or in a spot higher than the area being illuminated by the lamps.

⚠ WARNING

The tower extends to 11 ft. (3.4 m). Make sure area above the unit is open and clear of overhead wires and obstructions.

2. Place the unit on firm ground that is relatively flat. Place sandbags on each leg to keep the unit from moving.

⚠ WARNING

Place sandbags on each leg of the tower base. Failure to do this will reduce the stability of the unit.

3. Before raising the mast it may be necessary to adjust the lamp. The lamp may be adjusted up, down, left or right by loosening the wing nut on the light fixture bracket and aiming the lamp in the desired direction. Tighten the hardware completely and make sure the lamp is connected to the control box.
4. Check the coiled electrical cord on the portable light for damage.

⚠ WARNING

Do not start the unit if the insulation on the coiled electrical cord is cut or worn through. Bare wires in contact with the mast or frame may energize the unit. Repair or replace the cord!

5. Verify that the on/off switch is turned to the OFF position and there is nothing plugged into the auxiliary outlets.

⚠ WARNING

Never raise or lower the mast while the light is on! Doing so may result in equipment damage or serious personal injury.

6. To raise the mast, simultaneously pull out the spring-loaded plungers on each side of the mast and slowly begin to lift up (See Figure 1). Release plungers as you continue to extend the mast to the desired height. The height may be adjusted to one of five heights (as measured to the top of the installed light):

- 7.5 ft. (2.29 m) (Original unit height)
- 8.0 ft. (2.44 m)
- 9.0 ft. (2.74 m)
- 10.0 ft. (3.05 m)
- 11.0 ft. (3.35 m)

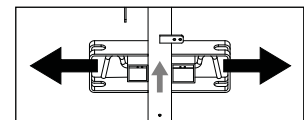


Figure 1

The spring-loaded plungers will snap into place on the inner mast at the next height position unless tension is kept on them until you near your desired height.

Note: A mechanical stop will prevent the outer mast from overextending.

⚠ CAUTION

The outer mast and light assembly weighs over 40 lbs. (18 kg).
Use extreme care when raising or lowering.

⚠ CAUTION

Extend the mast slowly, making sure the coiled electrical cord is extending at the top section of the mast.

7. Once the height is set, check the stability of the unit. If the unit is stable, insert the control box plug into the power source.

Note: *It is necessary to power the portable light with an extension cord. This extension cord must be a minimum of 12 ga. and a maximum of 50' in length. The extension cord must be plugged into an outlet with a minimum 20 amp rating.*

⚠ WARNING

Do not start the unit if the insulation on the electrical cord is cut or worn through. Bare wires in contact with the mast or frame may energize the unit. Repair or replace the cord!

⚠ WARNING

When using a portable generator as a power source for any metal halide floodlight, ALWAYS turn the lights OFF before starting or stopping the generator. Leaving the lights on may result in equipment damage, or personal injury.

8. Turn on the light using the switch in the control box.

Note: *The GFI outlet receptacle MUST be "reset" in order to operate the outlets and/or the light.*

⚠ WARNING

NEVER OPERATE THE LIGHTS WITHOUT THE PROTECTIVE LENS COVER OR WITH A LENS COVER THAT IS CRACKED OR DAMAGED! The bulbs in the light fixtures produce high temperatures and operate under pressure. A broken or missing lens could cause the bulbs to shatter, causing serious injury.

9. The light requires a warm up period of 5-15 minutes before it reaches full output. If the light is shut down, it requires a cool-down period of 10 minutes before it can be switched on again.

⚠ WARNING

Bulbs become extremely hot during use! Allow bulb fixture to cool 10-15 minutes before handling.

10. The portable light uses a 1000W bulb. When checking or replacing the bulb, wipe with a clean cloth to avoid leaving any grease, oil residue or fingerprints on the glass. Any residue can create a hot spot on the bulb, causing premature bulb failure.

OPERATING THE MPL2000

1. For maximum light coverage locate portable light at ground level or in a spot higher than the area being illuminated by the lamps.

⚠ WARNING

The tower extends to 11 ft. (3.4 m). Make sure area above the unit is open and clear of overhead wires and obstructions.

2. Place the unit on firm ground that is relatively flat. Place sandbags on each leg keep the unit from moving.

⚠ WARNING

Place sandbags on each leg of the tower base. Failure to do this will reduce the stability of the unit.

3. Before raising the mast it may be necessary to adjust the lamps. The lamps may be adjusted up, down, left or right by loosening the wing nuts and bolts on the lamp fixtures and aiming them in the desired direction. Tighten the hardware completely and make sure the lamps are connected to the control box.
4. Check the electrical cords for damage.

⚠ WARNING

Do not start the unit if the insulation on the coiled electrical cord is cut or worn through. Bare wires in contact with the mast or frame may energize the unit. Repair or replace the cord!

5. Verify that the on/off switch is turned to the OFF position and there is nothing plugged into the auxiliary outlets.
6. Check winch cable for excessive wear or damage. Make sure the cable is properly centered in the pulley.

⚠ WARNING

Never raise or lower the mast while the light is on! Doing so may result in equipment damage or serious personal injury.

7. Use the winch on the outer mast to extend the inner mast to the desired height. Extend the mast slowly, making sure that the electrical cords are extending at the top section of the mast. If, for any reason, the winch cable begins to develop slack or the inner mast section gets stuck, STOP IMMEDIATELY and contact an authorized service center.

Note: A mechanical stop will prevent the inner mast from overextending.

⚠ CAUTION

Extend the mast slowly, making sure the coiled electrical cord is extending at the top section of the mast.

8. Once the height is set, check the stability of the unit. If the unit is stable, plug the control box plug into the power source.

Note: *It is necessary to power the portable light with an extension cord. This extension cord must be a minimum of 12 ga. and a maximum of 50' in length. The extension cord must be plugged into an outlet with a minimum 20 amp rating.*

⚠ WARNING

Do not start the unit if the insulation on the electrical cord is cut or worn through. Bare wires in contact with the mast or frame may energize the unit. Repair or replace the cord!

⚠ WARNING

When using a portable generator as a power source for any metal halide floodlight, ALWAYS turn the lights OFF before starting or stopping the generator. Leaving the lights on may result in equipment damage, or personal injury.

9. Turn on the lights, one at a time, using the switches in the control box. **Note:** *The GFI outlet receptacle MUST be "reset" in order to operate the outlets and/or the lights.*

⚠ WARNING

NEVER OPERATE THE LIGHTS WITHOUT THE PROTECTIVE LENS COVER OR WITH A LENS COVER THAT IS CRACKED OR DAMAGED! The bulbs in the light fixtures produce high temperatures and operate under pressure. A broken or missing lens could cause the bulbs to shatter, causing serious injury.

10. The lights require a warm up period of 5-15 minutes before they reach full output. If the lights are shut down, they require a cool-down period of 10 minutes before they can be switched on again.

⚠ WARNING

Bulbs become extremely hot during use! Allow bulb fixture to cool 10-15 minutes before handling.

11. The portable light uses 1000W bulbs. When checking or replacing a bulb, wipe with a clean cloth to avoid leaving any grease, oil residue or fingerprints on the glass. Any residue can create a hot spot on the bulb, causing premature bulb failure.

AUXILIARY OUTLETS

The control box is equipped with one duplex Ground Fault Interrupt (GFI) outlet for running accessories or tools from the portable light. Power is supplied to the outlet each time the control box is plugged into the power source. **Note:** *Do not pull more than 1000 watts from each outlet when the light(s) are on, as this will overload the portable light. (Wattage is determined by multiplying volts x amps of the unit being plugged into the outlet).*

Should the portable light be overloaded, switch off the lights, remove some of the load to the outlets and wait ten minutes for the bulbs to cool before turning them back on.

SHUTTING DOWN

When you have finished using the portable light proceed with shut down as follows:

1. Remove any loads from the auxiliary outlets.
2. Move each light switch to the OFF position.
3. Unplug the portable light from the power source, at the control box.

LOWERING THE MAST - MPL1000

1. Shut down the light. Unplug portable light from power source. Allow the light to cool 10-15 minutes before lowering the mast.
2. To lower the mast, simultaneously pull out the spring-loaded plungers on each side of the outer mast and slowly lower the mast. Release the plungers when the mast has neared its lowest position. The plungers will snap into place once the lowest possible height position has been reached.

Note: *When lowering, there is a mechanical stop to prevent the hand guards from hitting the ballast heat shield.*

⚠ CAUTION

Lower the mast slowly, making sure the coiled electrical cord does not get caught on anything.

LOWERING THE MAST - MPL2000

1. Shut down the lights. Unplug portable light from power source. Allow the lights to cool 10-15 minutes before lowering the mast.
2. Turn the winch handle to collapse the mast to its lowest position.

⚠ CAUTION

Keep clear of the mast light crossbar as you lower the mast.

⚠ WARNING

If the mast hangs up or the winch cable begins to develop slack, STOP IMMEDIATELY! Excess slack in the cable could cause the mast to collapse should it free up without warning. Contact an authorized service center.

MOVING THE PORTABLE LIGHT

⚠ WARNING

Do not move the unit with the mast extended!

1. Unplug any accessories plugged into the control box. Turn the light(s) off and unplug the control box from the power source.
2. Make sure the mast is secured in its lowest position.
3. Carefully lean the mast backwards on its wheels and roll the unit to its new location.
4. Make sure the unit is level and the area is clean and dry. Place sand bags over each leg to keep the unit from moving.

WINCH USE, OPERATION & MAINTENANCE (MPL2000)

PRIOR TO USE:

- Inspect rope or cable and replace if damaged.
- Check mounting hardware for proper tightness and re-torque if necessary.
- Gears, ratchet pivot point and shaft bushings must be kept lubricated with a thin oil or grease.

OPERATION:

Take Line/Load In:

1. The cable must be securely fastened to the object being lifted and to the winch drum.
2. Always be sure that the cable and cable attachments are not damaged and are strong enough for the load. Assure there is adequate safety factor, of at least three times the maximum load for all components used.
3. Referring to the "Cable In/Cable Out" decal on the winch, turn handle according to the specified direction to lift. The ratchet **MUST** make a loud clicking sound while pulling line in.

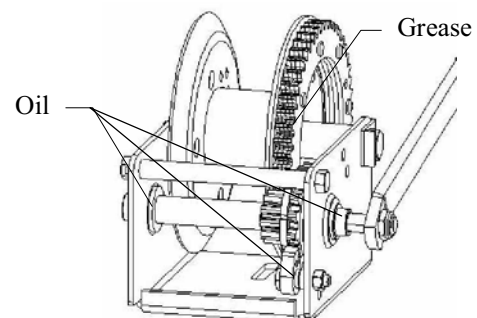
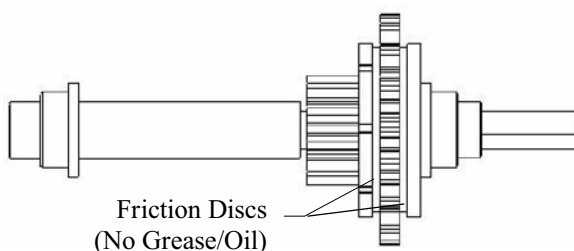
Let Line/Load Out:

1. Referring to the "Cable In/Cable Out" decal on the winch, turn handle according to the specified direction to lower. No clicking will be heard because the brake system is activated.

MAINTENANCE:

The following procedures should be performed at least annually:

1. The gears and bushings of the winch must be kept lubricated. Apply a thin film of grease to the gear teeth, and oil the bushings as needed.
2. The ratchet pawl pivot point must be kept lubricated with a thin oil.
3. Do not get oil or grease on the friction discs.



TROUBLESHOOTING THE LIGHTS

⚠ WARNING

HIGH VOLTAGE! This unit uses high voltage circuits capable of causing serious injury or death. Only a qualified electrician should troubleshoot or repair electrical problems occurring in this equipment.

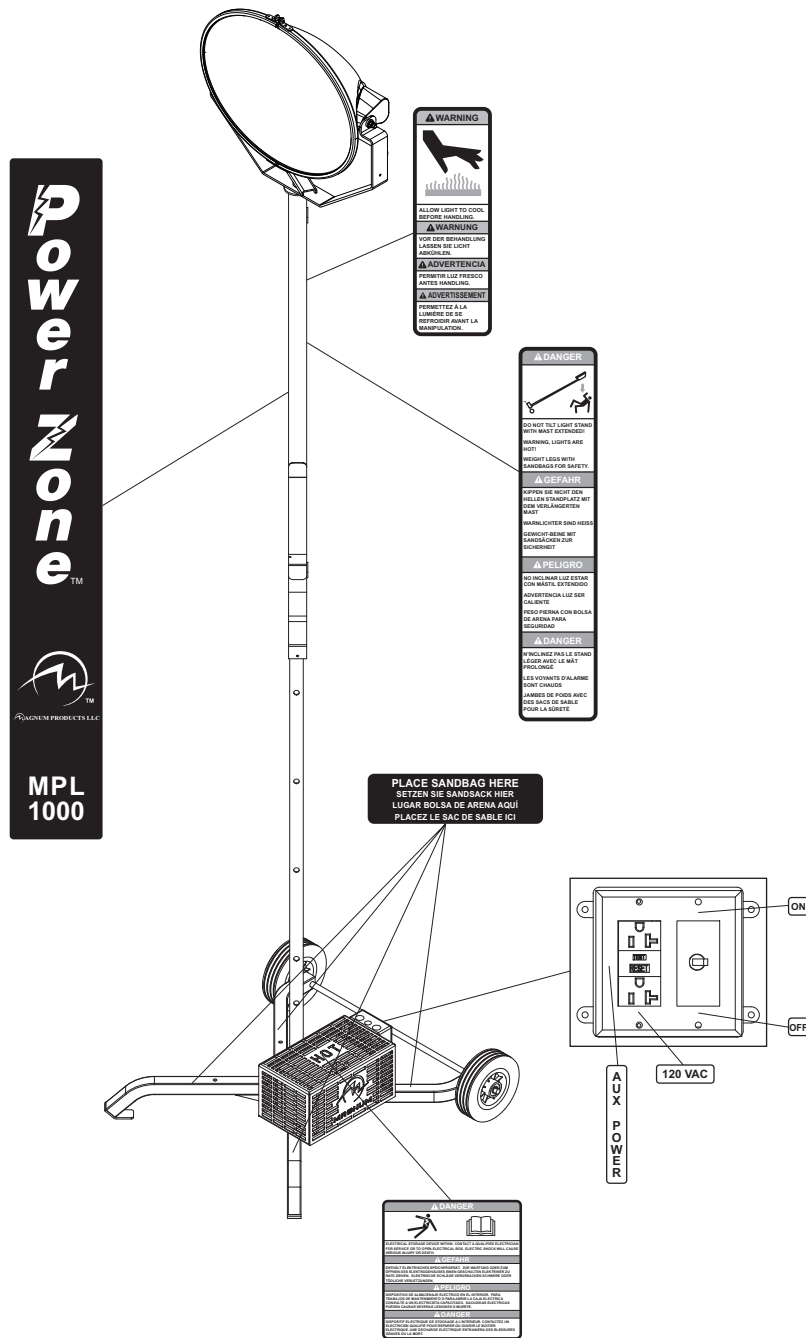
MAST LIGHTS OFF:

1. Mast light is too hot. Allow light to cool 10-15 minutes before restarting.
2. Faulty bulb connection. Check that the bulb is tight in the socket.
3. Bulb broken. Check for broken arc tube or outer bulb jacket, broken or loose components in bulb envelope or blackening/deposits inside tube.
4. Check the connections inside the control box and each mast light housing/socket.
5. Check the mast coiled cord/drape cords for damage and proper connection inside the control box.
6. Power source input incorrect. Check the incoming voltage to the ballast. Incoming voltage should be 120V +/- 5V. If voltage is incorrect power source may need to be adjusted or may require service.
7. Low transformer output. The voltage from the transformer should measure 360 to 460 VAC.
8. Low or no ballast output. With the fixture cord removed from the mast junction box, the voltage at the mast coil cord connection should measure 360 to 460 VAC. If proper voltage is not achieved, perform a capacitor check. Disconnect the leads from the capacitor, and discharge the capacitor by shorting between the two terminals. Check resistance by using a multimeter with capacitance mode (μF). Take a reading between the two terminals on the capacitor; compare the μF readings to the rating printed on the side of the capacitor and if they do not match, the capacitor needs to be replaced. To perform a capacitor check using an Ohm meter, set the ohm meter at the highest resistance setting and take a reading between the two terminals on the capacitor. If the meter indicates a very low resistance which then gradually increases, the capacitor does not require replacement. If the meter indicates a very high resistance which does not diminish, it is open and should be replaced. If the meter indicates a very low resistance which does not increase, the capacitor is shorted and should be replaced.

MAST LIGHTS ON BUT THE LIGHT OUTPUT IS LOW:

1. Fixture or lens dirty. Clean reflective surface inside fixture and both inside and outside surface of glass lens. Use mild soap and water to clean lens. Other chemicals may have an adverse effect on the glass.
2. Bulb worn. Replace bulb due to normal use.
3. Check the mast coiled cord/drape cords, control box and mast light connections.
4. Power source input incorrect. Check the incoming voltage to the ballast. Incoming voltage should be 120V +/- 5V.
5. Low ballast output. Check ballast for proper voltage output (see step 8 above).

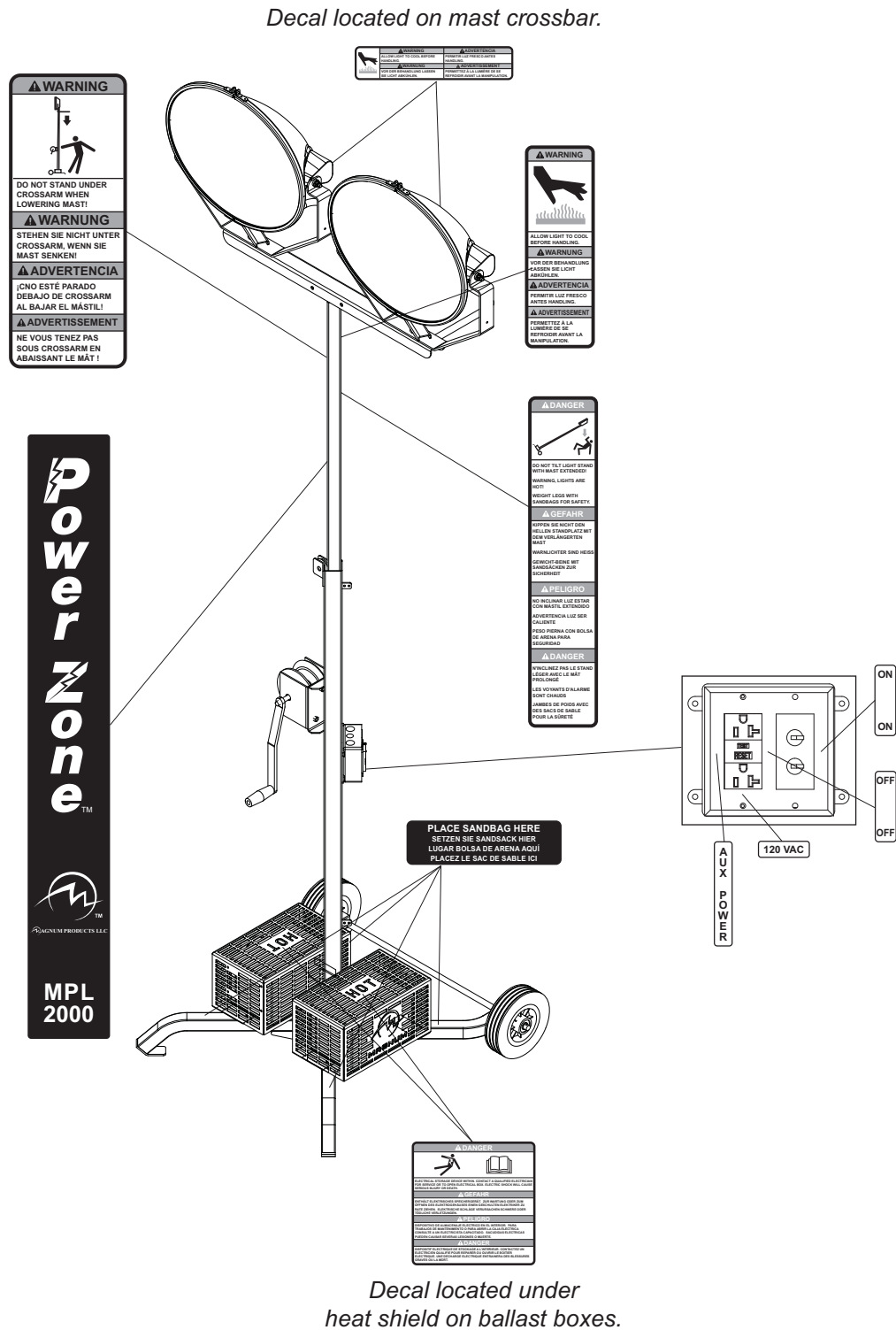
UNIT DECALS - MPL1000



Decal located under heat shield on ballast box.

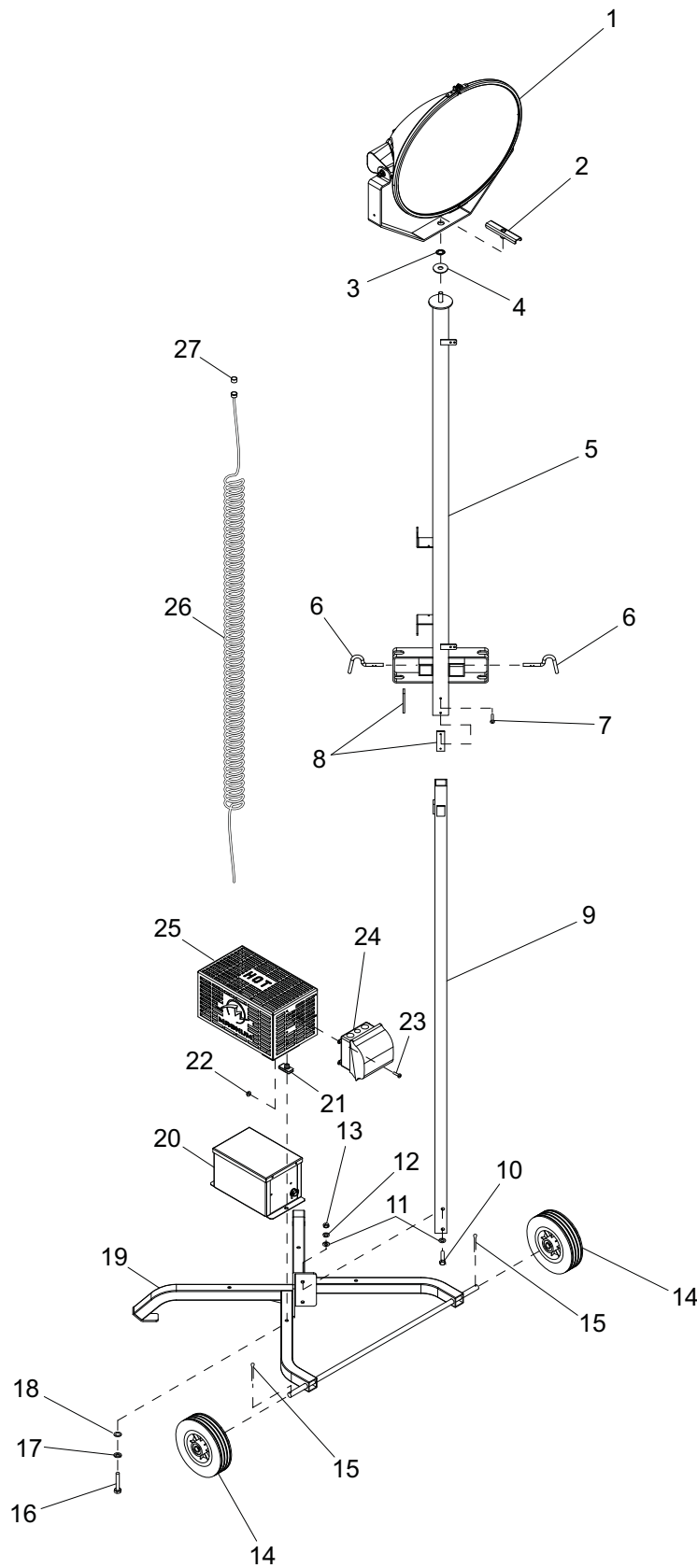
Note: All safety and operating decals shown above are located on decal sheet 13008.

UNIT DECALS - MPL2000



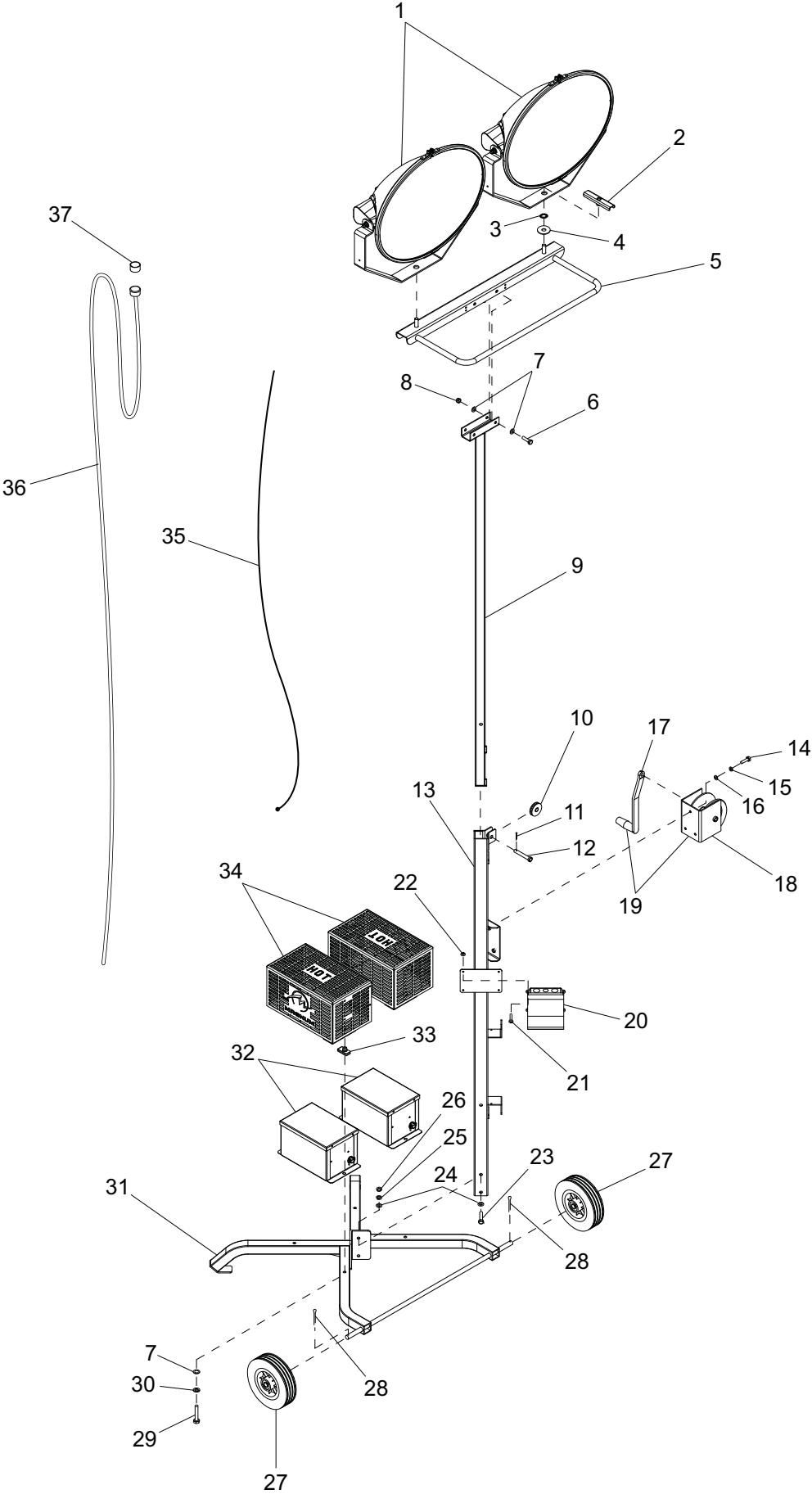
Note: All safety and operating decals shown above are located on decal sheet 13009.

MPL1000 COMPONENTS



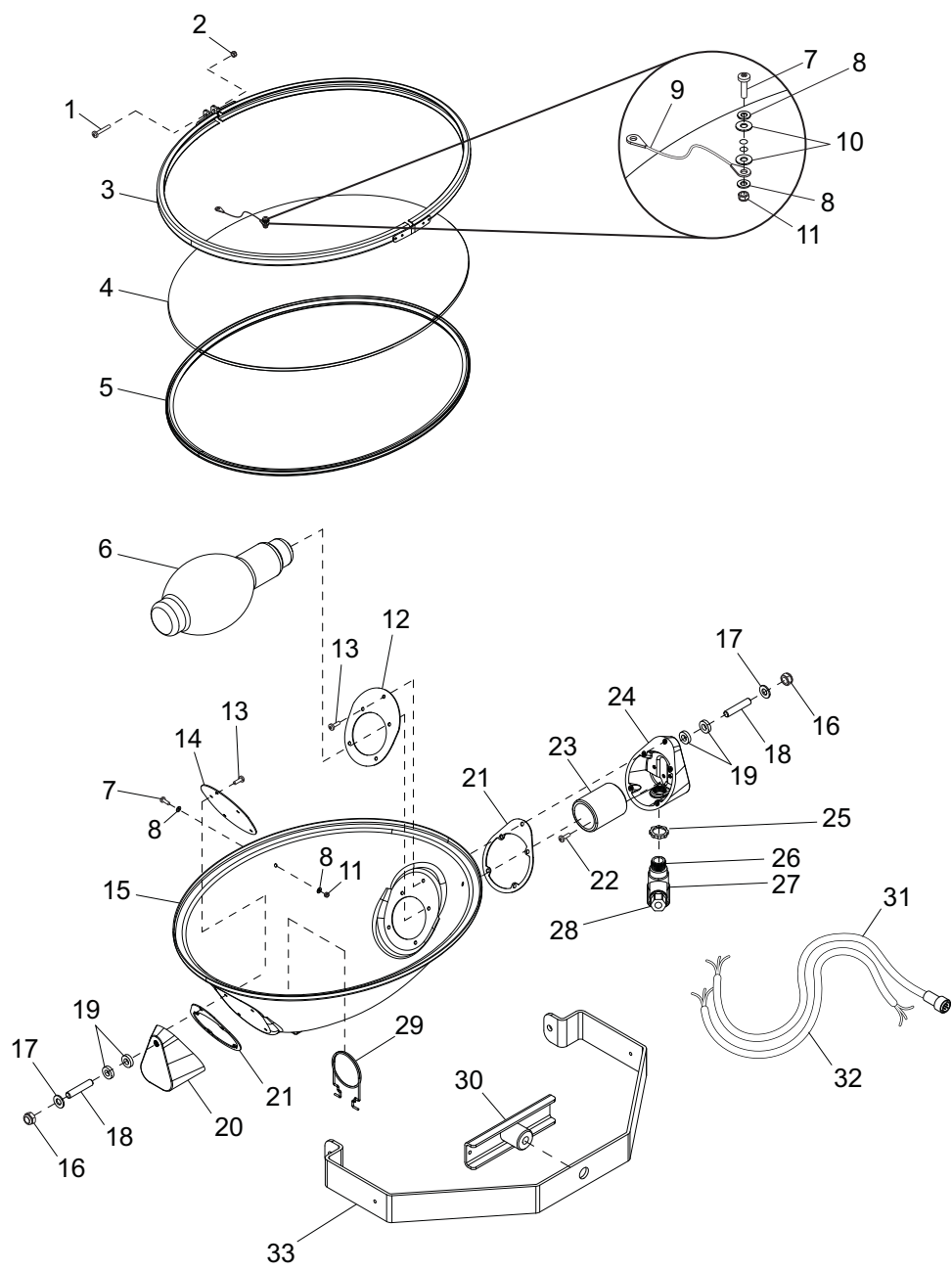
ITEM NO.	PART NO.	QTY	DESCRIPTION
1	Pages 22 - 23	1	Assy, light fixture
2	12993Z	2	Weldment, wing nut
3	60369	1	Washer, ext star lock M12
4	60416	1	Washer, flat .500
5	12784B	1	Weldment, outer mast - MPL1000
6	14324	2	Kit, plunger
7	60395	4	Screw, 10-24X.375 pan hd phil
8	12789	2	Spacer, outer mast - MPL1000
9	12781Z	1	Weldment, inner mast - MPL1000
10	60370	4	Screw, .375-16X2.500 hx hd
11	60698	8	Washer, flat .375 SS
12	60703	4	Washer, split lock .375 SS
13	60679	4	Nut, .375-16 hx hd SS
14	12772	2	Wheel, 8 in.
15	60321	2	Pin, cotter - .156X1.75
16	60782	2	Screw, .312-18X2.500 hx hd SS
17	60701	2	Washer, split lock .312 SS
18	60340	2	Washer, flat .312 SS
19	12758B	1	Weldment, base - portable light
20	Pages 24 - 25	1	Assy, ballast box - 1000W MH
21	61047	2	Nut, u clip - .312-18 long type
22	61045	4	Nut, 10-32 hx ser flg
23	60062	4	Screw, 10-32X.750 pan hd phil
24	Pages 26 - 27	1	Assy, control box - complete - MPL1000
25	12813R	1	Heat shield - MPL
26	12821	1	Coil cord - MPL1000 (quick disconnect)
27	12984	1	Coupling adapter - MIN series 1

MPL2000 COMPONENTS



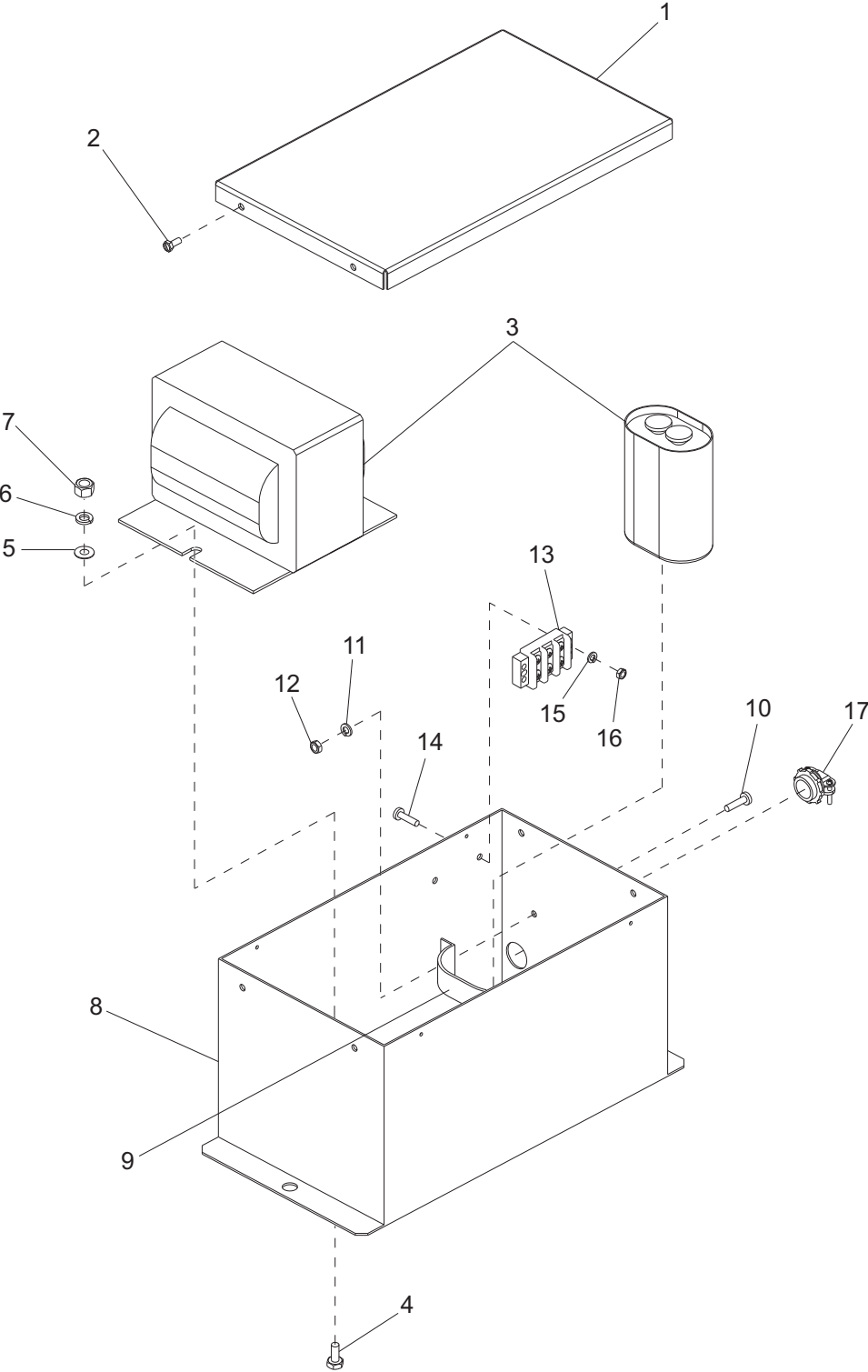
ITEM NO.	PART NO.	QTY	DESCRIPTION
1	Pages 22 - 23	2	Assy, light fixture
2	12993Z	2	Weldment, wing nut
3	60369	2	Washer, ext star lock M12
4	60416	2	Washer, flat .500
5	12903B	1	Weldment, removable crossbar - 2 light
6	61046	2	Screw, .312-18X2.750 hx hd SS
7	60340	8	Washer, flat .312 SS
8	60303	2	Nut, .312-18 hx nylock
9	12773Z	1	Weldment, inner mast - MPL2000
10	14261	1	Sheave - 2 in.
11	15380	1	Pin, cotter - .125X1.250
12	15015	1	Pin, clevis - .500 dia X 1.250
13	12763B	1	Weldment, outer mast - MPL 2000
14	60687	3	Screw, .312-18X.750 hx hd SS
15	60701	3	Washer, split lock .312 SS
16	60340	3	Washer, flat .312 SS
17	16224	1	Winch handle & nut - 11.00 handle
18	12771	1	Winch, manual - 600 lb. no handle
19	12770	1	Winch, manual - 600 lb. (w/11 in. handle)
20	Pages 28 - 29	1	Assy, control box - complete - MPL2000
21	60062	4	Screw, 10-32X.750 pan hd phil
22	61045	4	Nut, 10-32 hx ser flg
23	60794	4	Screw, .375-16X3.000 hx hd
24	60698	8	Washer, flat .375 SS
25	60703	4	Washer, split lock .375 SS
26	60679	4	Nut, .375-16 hx hd SS
27	12772	2	Wheel, 8 in.
28	60321	2	Pin, cotter - .156X1.75
29	60782	4	Screw, .312-18X2.500 hx hd SS
30	60271	4	Washer, split lock .312
31	12758B	1	Weldment, base -portable light
32	Pages 24 - 25	2	Assy, ballast box - 1000W MH
33	61047	4	Nut, U clip - .312-18 long type
34	12813R	2	Heat shield - MPL
35	12791	1	Assy, winch cable - MPL2000
36	12822	2	Drape cord - MPL2000 (quick disconnect)
37	12984	2	Coupling, adapter - min series 1

LIGHT ASSEMBLY



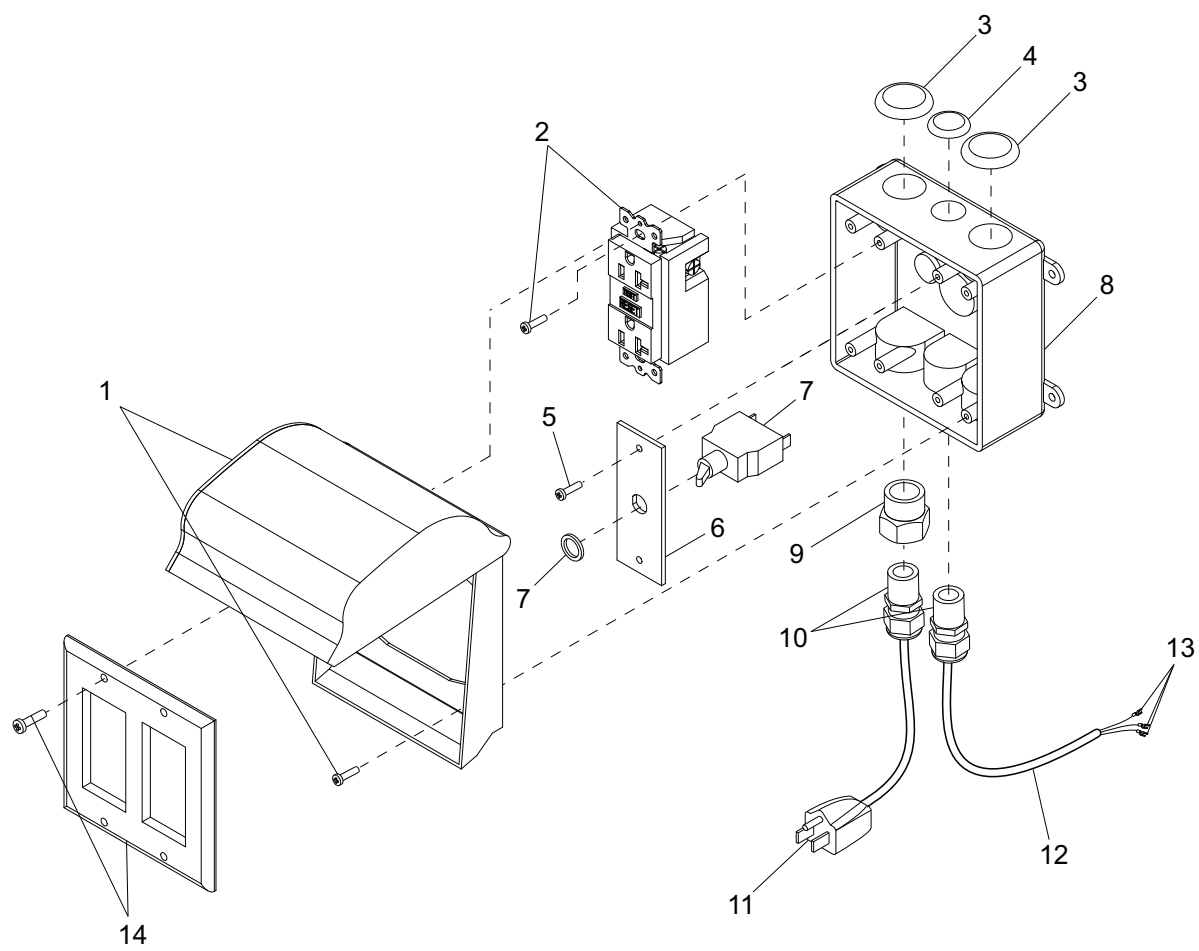
ITEM NO.	PART NO.	QTY	DESCRIPTION
1	60304	1	Screw, M5 x 25 pan hd phillips
2	60447	1	Nut, M5 nylock
3	13367	1	Assembly, aluminum ring
4	13369	1	Lens, glass oval
5	13373	1	Gasket, lens oval
6	11391	1	Bulb, 1000W MH short length
7	13399	2	Screw, M4 x 18 pan hd phillips
8	60067	4	Washer, #10 flat .435/.060 SS
9	13370	1	Assembly, tether
10	13372	2	Washer, #4 nylon
11	60051	2	Nut, M4 nylock
12	13376	1	Bracket, socket end plate
13	13388	10	Screw, M5 x 12 slotted hex w/flange
14	13377	1	Bracket, end plate
15	13366	1	Housing
16	60307	2	Nut, 500-13 nylok G5 ZC
17	60309	2	Washer, .500 flat 1.060/.090 ZC SAE
18	13392	2	Stud, trunnion
19	13390	4	Washer, nylon (for part number 13392)
20	13374	1	Support, housing/trunnion
21	13378	2	Gasket, silicone
22	13393	2	Screw, M5 x 12 phillips green
23	13381	1	Socket, bulb
24	13375	1	Support, housing/trunnion
25	15861	1	Nut, special, .500 NPT lock (LN101SC)
26	13386	1	Fitting, nipple
27	13387	1	Connector, weather tight
28	15864	1	Strain relief, .50 NPT watertight .270/.464 ID
29	13892	1	Support, bulb - oval light
30	12993Z	4	Weldment, wing nut
31	13383	1	Cord, power quick disconnect
32	13438	1	Cord, power hard wired
33	13368	1	Trunnion, oval light
--	13311	4	Assembly, light fixture - 1000W MH hard wired oval (items 1-30, 32)
--	13312	1	Assy, light fixture - 1000W MH quick disc.oval (items 1-31)

METAL HALIDE BALLAST BOX ASSEMBLY



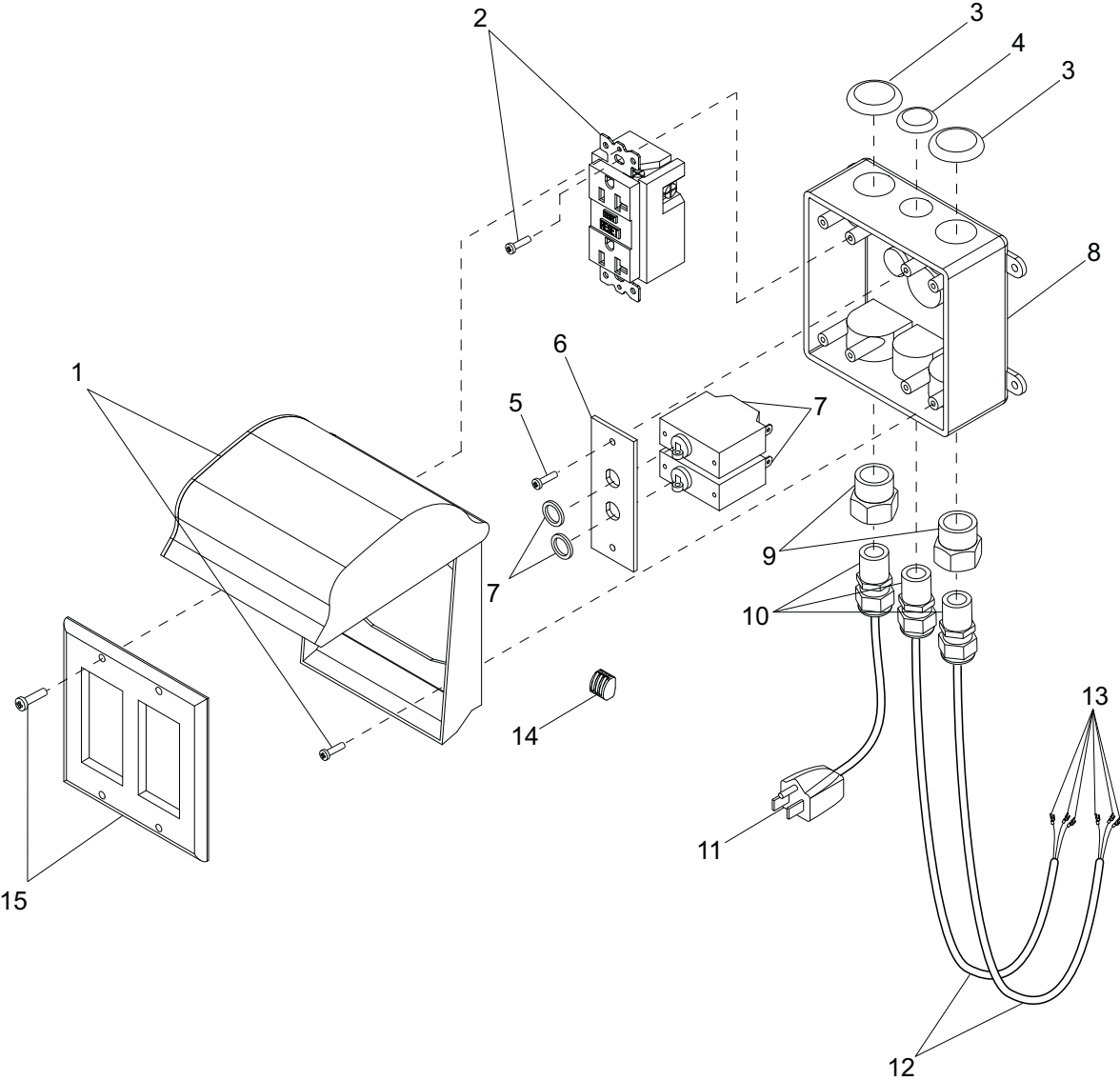
ITEM NO.	PART NO.	QTY	DESCRIPTION
1	11079	1	Cover, ballast box
2	60419	4	Screw, 6-32x.500 hx hd slot self tapping
3	10227	1	Transformer and capacitor set 1000W
4	60391	2	Screw, .250-20x.625 hx hd
5	60696	2	Washer, flat .250 SS
6	60704	2	Washer, split lock .250 SS
7	60284	2	Nut, .250-20 hx hd
8	11078	1	Ballast box
9	14244	1	Hanger, perforated
10	60062	2	Screw, 10-32x.750 pan hd phil
11	60252	2	Washer, split lock #10
12	14231	2	Nut, 10-32 hx
13	14158	1	Block, terminal - 3 pos
14	60244	2	Screw, 8-32x.750
15	60236	2	Washer, split lock #8
16	60318	2	Nut, 8-32, hx
17	14202	1	Strain relief - .375 romex w/nut
-	11144	-	Assembly, ballast box - 3000 1000W MH

CONTROL BOX ASSEMBLY - MPL1000



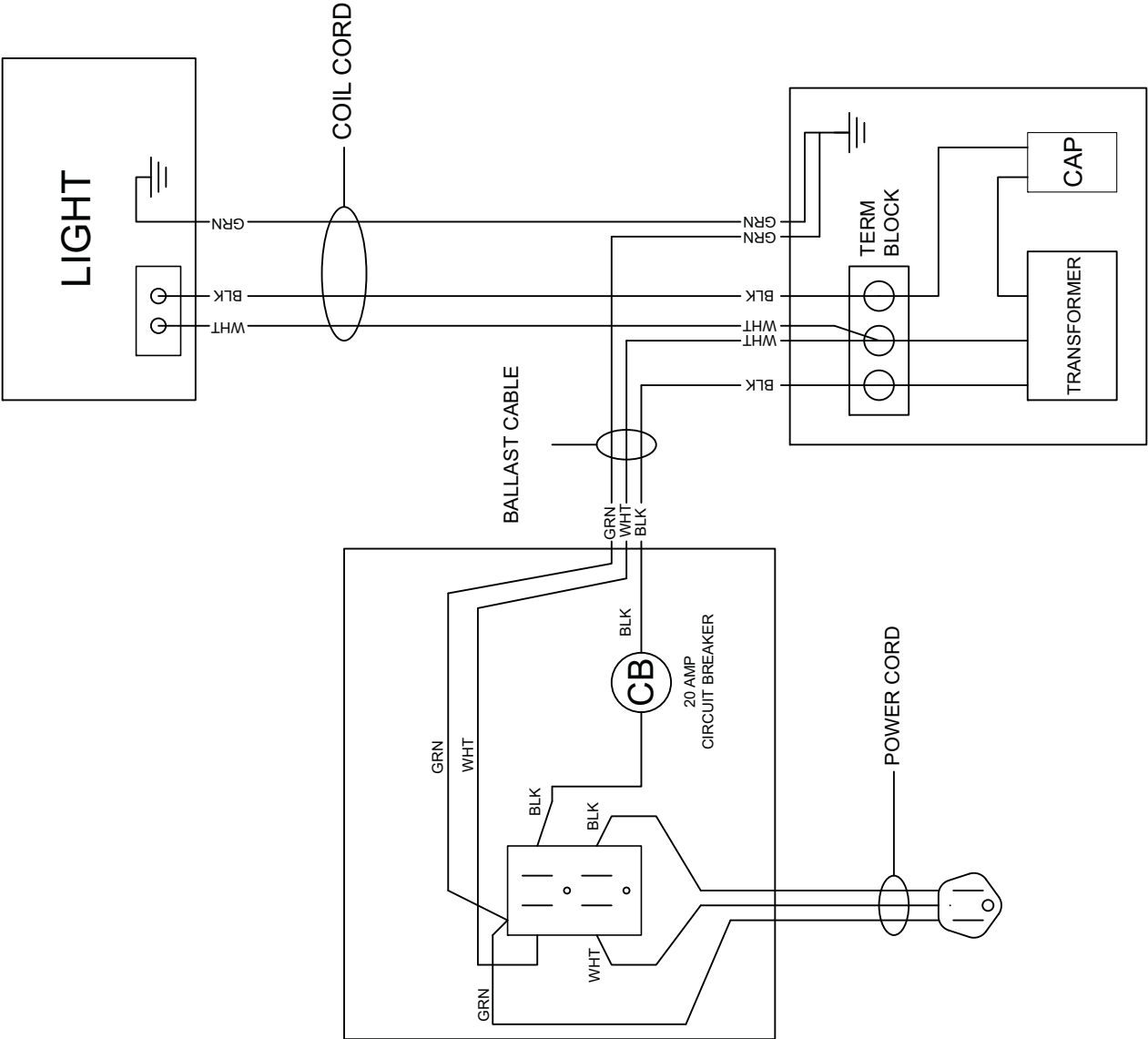
ITEM NO.	PART NO.	QTY	DESCRIPTION
1	65678	1	Cover, receptacle - weatherproof 20A GFCI
2	14130	1	Receptacle, 120V/20A GFI
3	65806	2	Plug, finishing - 1.000" black
4	65805	1	Plug, finishing - 0.750" black
5	60424	2	Screw, 6-32X.750 pan hd self threading
6	12904B	1	Bracket, switch - MPL1000
7	65683	1	Breaker, 20A 250V 1 pole - mini
8	12094	1	Box, junction
9	60755	1	Fitting, .750NPT male X .500NPT female
10	15864	2	Strain relief - .50 NPT watertight .270/.464 ID
11	11300	1	Pigtail, 3 prong male-12 X 16/3 blk vinyl
12	65680	1	Assy, ballast cable - MPL1000
13	65005	6	Terminal, fork up turn 14-16AWG #8 screw
14	65679	1	Cover, receptacle - dual GFCI
-	12792	-	Assy, control box - complete - MPL1000

CONTROL BOX ASSEMBLY - MPL2000

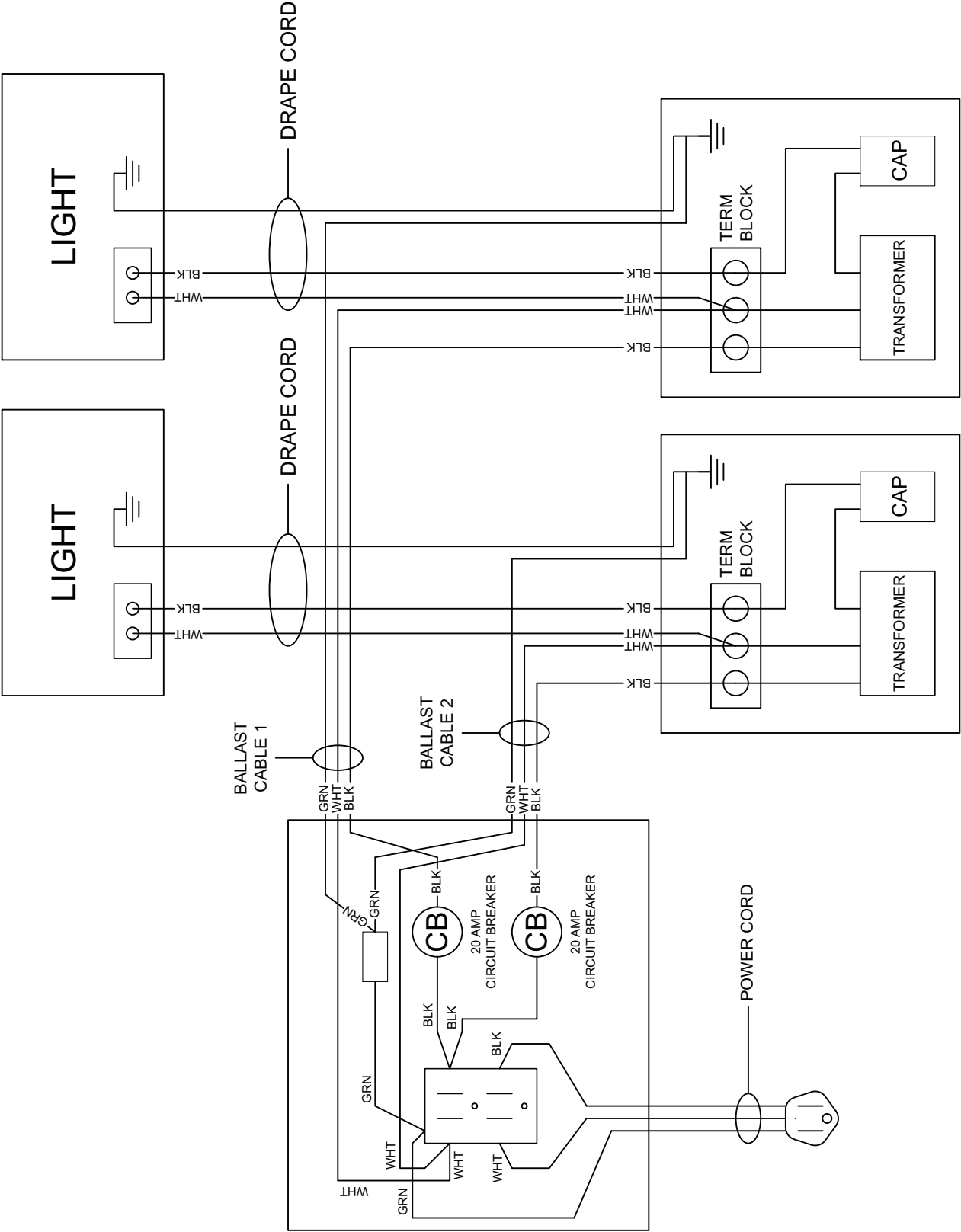


ITEM NO.	PART NO.	QTY	DESCRIPTION
1	65678	1	Cover, receptacle - weatherproof 20A GFCI
2	14130	1	Receptacle, 120V/20A GFI
3	65806	2	Plug, finishing - 1.000" black
4	65805	1	Plug, finishing - 0.750" black
5	60424	2	Screw, 6-32X.750 pan hd self threading
6	12826B	1	Bracket, switch - MPL2000
7	65683	2	Breaker, 20A 250V 1 pole - mini
8	12094	1	Box, junction
9	60755	2	Fitting, .750NPT male X .500NPT female
10	15864	3	Strain relief - .50 NPT watertight .270/.464 ID
11	11300	1	Pigtail, 3 prong male-12 X 16/3 blk vinyl
12	65682	2	Assy, ballast cable - MPL2000
13	65005	6	Terminal, fork up turn 14-16AWG #8 screw
14	66101	1	Connector, 3 pos wago
15	65679	1	Cover, receptacle - dual GFCI
-	12790	-	Assy, control box - complete - MPL2000

WIRING DIAGRAM - MPL1000



WIRING DIAGRAM - MPL2000



REV: G
PART NO: 13038
03.04.11