

# Owner's Manual & Safety Instructions

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

23k

## OUTDOOR BUG ZAPPER



Visit our website at: <http://www.harborfreight.com>  
Email our technical support at: [productsupport@harborfreight.com](mailto:productsupport@harborfreight.com)

**59709**

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.





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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

### **⚠ WARNING**

Read this material before using this product. Failure to do so can result in serious injury. **SAVE THIS MANUAL.**

## WARNING SYMBOLS AND DEFINITIONS

	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.
 <b>DANGER</b>	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
<b>NOTICE</b>	Addresses practices not related to personal injury.

## IMPORTANT SAFETY INSTRUCTIONS

### **DANGER**

#### TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS:

1. Skin or eye damage may result from directly viewing the light produced by the lamp in this apparatus. Always disconnect power before relamping or servicing.
2. Install product at minimum 20ft distance from spaces with continuous, 8-hour human activities so that people are not continuously exposed to UV.
3. Use extension cord marked SJW-A, SJEW-A, or SJTW-A only.
4. Use only extension cords which have plugs and receptacles which accept the product's plug. Replace or repair damaged cords.
5. The electrical rating of the extension cord must be as great as the electrical rating of the product.
6. Product should only be connected to a circuit that is protected by a ground-fault circuit-interrupter (GFCI).
7. Don't Abuse Cord - Never carry product by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
8. Disconnect the product from the power supply when not in use, before servicing, when changing bulbs, cleaning, and similar actions.
9. Do not insert foreign objects into this product.
10. Do not mount the unit on house, other buildings, on decks or near heat, gas, oil or other flammable materials.
11. Maintain labels and nameplates on the product. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
12. This product is not a toy. Keep it out of reach of children.
13. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



**SAVE THESE INSTRUCTIONS.**

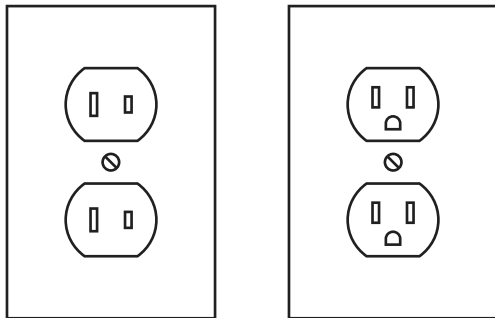
## GROUNDING INSTRUCTIONS



### TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

The product is equipped with an appropriate 2-conductor cord and 2-prong grounding type plug to fit the proper grounding-type receptacle. To reduce the risk of an electric shock, the plug must be plugged into an appropriate outlet that is properly installed and grounded. Consult a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether proper grounding exists.

## Double Insulated Tools: Tools with Two Prong Plugs



Outlets for 2-Prong Plug

1. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code.
2. Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. (See Outlets for 2-Prong Plug.)

## Extension Cords


1. Use only 3-wire extension cords which have 3-prong grounding-type plugs and 3-pole receptacles which accept the product's plug. Replace or repair damaged cords.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible damage to product. (See Table A.)
3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord.
4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required.
5. If you are using one extension cord for more than one product, add the nameplate amperes and use the sum to determine the required minimum cord size.
6. Outdoor extension cords must be used with outdoor use products and are surface marked with suffix letters "W-A" and with a tag stating "Suitable for Use with Outdoor Appliances".
7. Make sure the extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.
9. Keep the connection to an extension cord dry and off the ground.
10. Devices for retaining a connection between an extension cord and a power supply cord are available.




**TABLE A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS\* (120 VOLT)**

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	16	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-

\* Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

## Symbology

	Double Insulated
<b>V</b>	Volts
~	Alternating Current
≡	Direct Current
<b>A</b>	Amperes

	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Fire. Do not cover ventilation ducts. Keep flammable objects away.
	WARNING marking concerning Risk of Electric Shock. Properly connect power cord to appropriate outlet.

## Specifications

Electrical Rating	120VAC / 60Hz / 12W
Grid Voltage	3000VDC
Replacement Bulb	H-Type 18W UV

## Set-Up and Operation



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

## Installation

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**WARNING! TO PREVENT SERIOUS INJURY:**

Install product at minimum 20ft distance from spaces with continuous, 8-hour human activities so that people are not continuously exposed to UV.

**Note:** If a water source is present, place the unit between the water source and the area to be protected.

Determine a suitable location and hang the unit approximately 5-7ft off of the ground by the metal ring on the top of the unit.

## General Operation

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1. Plug unit into a grounded 120VAC, GFCI protected outlet. The unit will turn on. Allow 3-4 minutes for the Bulb to light completely.
2. To prevent accidents, unplug after use. Clean, then store the product indoors when not in use - out of reach of children.

## Maintenance



Procedures not specifically explained in this manual must be performed only by a qualified technician.

### **⚠ WARNING**

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**

Unplug the product from its electrical outlet before performing any procedure in this section.

**TO PREVENT SERIOUS INJURY FROM PRODUCT FAILURE:**

Do not use damaged equipment. If damage is noted, have the problem corrected before further use.

1. **BEFORE EACH USE**, inspect the general condition of the product. Check for:
  - loose hardware
  - misalignment or binding of moving parts
  - damaged cord/electrical wiring
  - cracked or broken parts
  - any other condition that may affect its safe operation.
2. **PERIODICALLY**, clean the exterior of product with nonabrasive glass cleaner and a clean cloth. **Do not clean this product with a water spray or similar method.**
3. **WARNING! To reduce the risk of fire and serious injury: remove insects frequently.** Use compressed air to remove insect remains from Grid.

## Relamping

1. Rotate the Cover to remove.



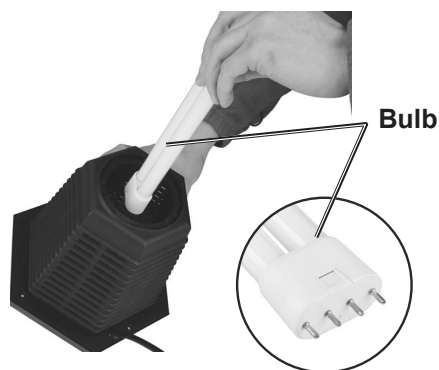
2. Remove the three screws retaining the Grill to the unit.



3. Remove the Bulb by gently pulling it out.




4. Install the new Bulb making sure the four pins are properly aligned.



5. Replace Grill and Cover.

## Troubleshooting

Problem	Possible Causes	Likely Solutions
No grid voltage, bulb does not light.	Unit not plugged in.	Plug in unit.
Grid has voltage, bulb does not light.	1. Bad bulb. 2. Bulb not inserted into socket correctly.	3. Replace Bulb. 4. Properly seat the bulb with its four pins into the bulb socket.
Constant zapping from the grid.	Debris in grid allowing shorting of grid.	Clean the grid as described in "Troubleshooting" on page 7.
Low or weak zapping.	Low insect population density.	Confirm low insect population density by examining area for insect remains. Move unit to new location as needed.
 <b>Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.</b>		

**Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Reference UPC 193175479211.

## Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



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