

CHICAGO
Electric[®] Power Tools

**150 WATT PORTABLE
CLAMP LIGHT**

Model 35149

ASSEMBLY & OPERATING INSTRUCTIONS



3491 Mission Oaks Blvd., Camarillo, CA 93011
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For technical questions and replacement parts please call 1-800-444-3353.

THANK YOU for choosing a **HARBOR FREIGHT TOOLS** product. For future reference, please complete the owner's record below:

Model _____ Serial No. _____ Purchase Date _____

SAVE THE RECEIPT, WARRANTY AND THESE INSTRUCTIONS. It is important that you read the entire manual to become familiar with the unit BEFORE you begin assembly.

Technical Specifications

Power:	120 VAC, 60 Hz
Amps:	1
Watts:	150
Bulb Type:	Quartz Halogen, 3 inch (78mm) length, (replacement item #47475)
Includes:	Clamp stand, hanging hook and handle
Weatherproof:	Yes
Electrical Cord:	6' Length, UL® Listed, 18 AWG
Weight:	2.7 lb.



! IMPORTANT SAFETY INSTRUCTIONS! !

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT!

Safety Warnings and Precautions

WARNING: When using product, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this product!

GENERAL SAFETY RULES

WARNING!

READ AND UNDERSTAND ALL INSTRUCTIONS
Failure to follow all instructions listed below may result in
electric shock, fire, and/or serious injury.
SAVE THESE INSTRUCTIONS

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate the Clamp Light in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating the Clamp Light.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

4. **Grounded lights must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
5. **Double insulated lights are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
6. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
7. **Do not expose the Clamp Light to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
8. **Do not abuse the Power Cord. Never use the Power Cord to carry the light or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.
9. **When operating a light outside, use an outdoor extension cord marked “W-A” or “W”.** These extension cords are rated for outdoor use, and reduce the risk of electric shock.

PERSONAL SAFETY

10. **Stay alert. Watch what you are doing, and use common sense when operating the Clamp Light. Do not use the Clamp Light while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating the light may result in serious personal injury.
11. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
12. **Avoid accidental starting. Be sure the Power Switch is off before plugging in.** Carrying the Clamp Light with your finger on the Power Switch, or plugging in the light with the Power Switch on, invites accidents.
13. **Remove adjusting keys or wrenches before turning the Clamp Light on.** A wrench or a key that is left attached to a rotating part of the light may result in personal injury.
14. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the Clamp Light in unexpected situations.

15. **Use safety equipment. Always wear eye protection.**

TOOL USE AND CARE

16. **Do not force the Clamp Light. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
17. **Do not use the light if the On/Off Switch does not turn it on or off.**
18. **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
19. **Store the Clamp Light out of reach of children and other untrained persons.** The Clamp Light is dangerous in the hands of untrained users.
20. **Maintain the Light with care.** Do not use a damaged light. Tag damaged light "Do not use" until repaired.
21. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the light's operation. If damaged, have the light serviced before using.** Many accidents are caused by poorly maintained lights.
22. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another light.

SERVICE

23. **Light service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
24. **When servicing a light, use only identical replacement parts. Follow instructions in the "Inspection, Maintenance, And Cleaning" section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

GROUNDING

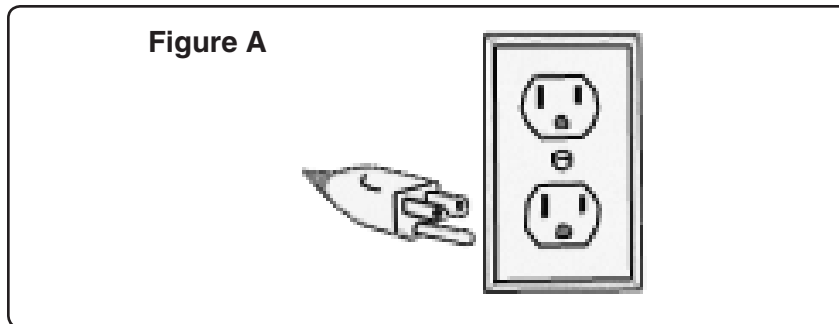
WARNING!

Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the Stapler. Never remove the grounding prong from the plug. Do not use the Stapler if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

GROUNDING TOOLS: TOOLS WITH THREE PRONG PLUGS

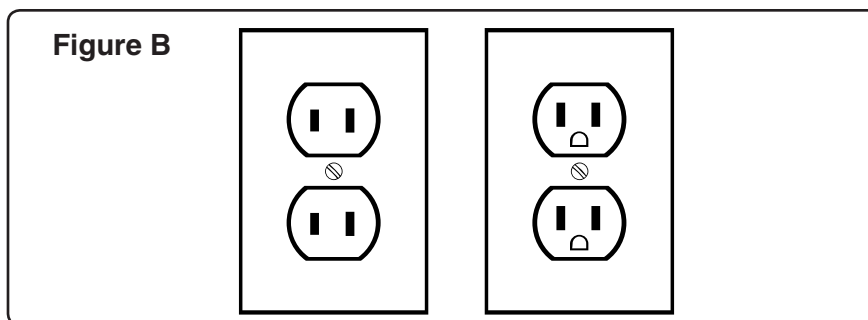
Note: The Clamp Light has a Three Prong Plug.

1. Tools marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the Stapler should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See Figure A.)**
2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the Stapler's grounding system and must never be attached to an electrically "live" terminal. **(See Figure A.)**
3. A grounded appliance must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration. **(See Figure A.)**



DOUBLE INSULATED APPLIANCES: APPLIANCES WITH TWO PRONG PLUGS

1. Appliances 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. **(See Figure B.)**
2. Double insulated tools may be used in either of the 120 volt outlets shown in the following illustration. **(See Figure B.)**



EXTENSION CORDS

1. ***Grounded*** appliances require a three wire extension cord. ***Double Insulated*** products can use either a two or three wire extension cord.
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 tool damage. **(See Figure C, next page.)**
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. **(See Figure C.)**
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. **(See Figure C.)**
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Figure C.)**
6. If you are using an extension cord outdoors, make sure it is marked with the suffix “W-A” (“W” in Canada) to indicate it is acceptable for outdoor use.
7. Make sure your 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 your extension cords from sharp objects, excessive heat, and damp or wet areas.

Figure C




RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120 VOLT)					
NAMEPLATE AMPERES (At Full Load)	EXTENSION CORD LENGTH				
	25 Feet	50 Feet	75 Feet	100 Feet	150 Feet
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	14	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.**

SPECIFIC SAFETY RULES

1. **WARNING!** Do not mount the Clamp Light on or in any *residential* structure. **Mounting in such a location creates a fire hazard that can result in property damage, severe personal injury, and/or death.**
2. **ALWAYS point the Light away from the wall, whether the unit is in use or not.** If the light is accidentally pointed at the wall while it is on or while it is still hot when turned off, a fire may result.
3. **Keep all flammable materials and wall hangings at least 10 feet from the mounting location.**
4. **Make sure to turn off the Clamp Light and unplug the unit from its electrical outlet when unattended.**
5. **Immediately upon turning on the Clamp Light, the Halogen Bulbs become VERY hot.** While operating the unit, do not touch the Halogen Bulbs, or grid.
6. **Avoid excessive UV radiation.** Should your skin begin to feel hot while operating the Halogen Lamps, immediately remove yourself from the unit's light rays.
7. **Avoid serious eye injury.** Do not look directly into the Halogen Bulbs when operating this product. Always wear ANSI approved safety goggles when working with tools and equipment.
8. **Do not touch the Halogen Bulb at any time.** Oil from skin will drastically shorten the bulb's life-span if not cleaned (with rubbing alcohol) before use. Handle with a soft, clean cloth instead.
9. **Do not operate the Clamp Light with a missing or damaged Lens or Grid.**
10. **Do not operate the Clamp Light with the Grid open.**
11. **Turn off the Clamp Light, unplug its Power Cord from its 120 volt, grounded, electrical outlet, and allow it to completely cool down prior to performing any inspection, maintenance, or cleaning on the unit.**
12. **After its use, make sure to allow the Light to completely cool down before storing the unit.**
13. **Be careful when hanging or clamping the Light in place. Make certain that the area used to hang the Light is clear of debris and obstructions which may bump the Light.**
14. **Do not obstruct walkways or common areas with the cord.**
15. **The Clamp Light is weatherproof but not waterproof. Do not submerge the Light in water.**

SYMBOLOLOGY

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
V ~	Volts Alternating Current
A	Amperes
n_o xxxx/min.	No Load Revolutions Per Minute (RPM)

WARNING! The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

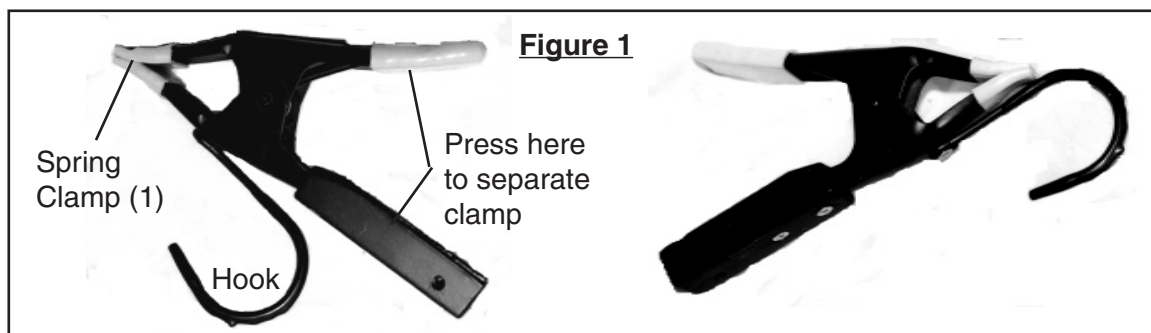
Unpacking

When unpacking the 150 Watt Portable Clamp Light, check to make sure parts on page are included. If any parts are missing or broken, please call **HARBOR FREIGHT TOOLS** at **1-800-444-3353**.

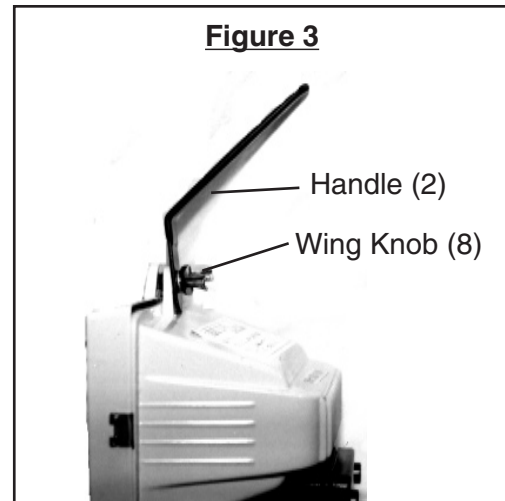
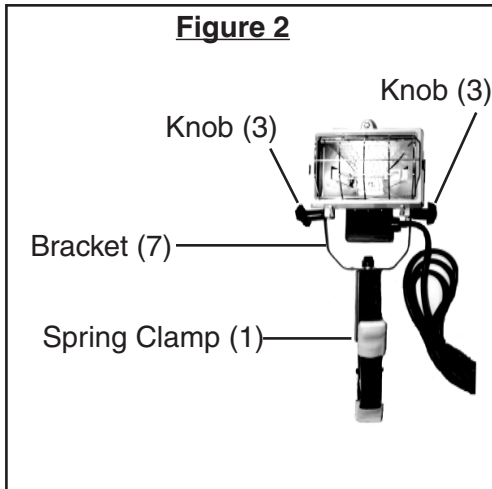
Assembly

Your Portable Clamp Light will require some minor assembly. The Light requires special conditions for set up and operation. It is important that you read the entire manual to become familiar with the product **BEFORE** you use the Portable Clamp Light. Before operating the Portable Clamp Light be sure that you have all parts described in the Parts List and Assembly Diagram located on page 10 of this manual.

1. The Light comes with a Spring Clamp (1) and a hook, either of which can be used to hang the Clamp Light. The hook can be turned to face up or down on the Spring Clamp as shown in Figure 1.



- The Spring Clamp (1) can be mounted to the Bracket (7) at any of the three holes located at the end of the Spring Clamp (1). Decide on the angle to attach the Spring Clamp (1) to the Bracket (7) - see Figure 2. Thread in Phillips Head Bolt (5) through the Bracket (7) and into the Spring Clamp (1). If the Phillips Head Bolt (5) does not thread in tightly, you may have to add several washers (not included) to obtain a tight fit.
- The Clamp Light has a Handle (2), which should be mounted to the grommet in the top of the Clamp Light by using a Knob (3) - see Figure 3.



- The Bracket (7) is held in place by two Knobs (3). To rotate the Clamp Light in place, loosen the Knobs (3) and move the Clamp Light to the desired position. Tighten Knobs (3).

Bulb Replacement

- Make certain that the product is OFF and unplugged. With leather gloves on, squeeze and remove the Grid from the front of the Clamp Light.
- Remove the Bolt from the top of the Clamp Light-see Figure 3.
- Pull out the Lens from the front of the Clamp Light.
- Make certain that the Halogen Bulb has had sufficient time to cool. Gently pull out the Halogen Bulb.
- Making certain NOT TO TOUCH the new Halogen Bulb**, insert it into the Clamp Light left side first. Oil from your skin will drastically shorten the bulb's life-span if not cleaned (with rubbing alcohol) before use. Handle with a soft, clean cloth instead.
- Insert the Phillips Head Bolt (3) and replace the Grid.

Operation

1. To turn on the Clamp Light, plug the Power Cord into the nearest 120 volt, grounded, electrical outlet. Then, press the On/Off Switch located on the back of the Clamp Light.

WARNING! Always point the light away from the wall, whether the unit is in use or not. If the unit is accidentally pointed at the wall while turned on or still hot after turned off, a fire may result.

2. To turn off the Halogen Light, press the On/Off Switch located on the back of the Light. Then, unplug the Power Cord/Plug from its electrical outlet.

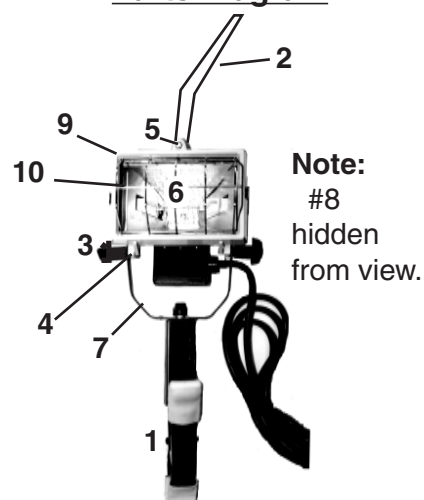
Inspection, Maintenance and Cleaning

1. Always unplug the Halogen Lamp from its electrical outlet and allow the unit to completely cool down before performing any inspection, maintenance, or cleaning.
2. Before each use: Inspect the general condition of the Halogen Lamp. Check for misalignment or binding of moving parts, cracked or broken parts, damaged Power Cord, damaged Grid, Lens and any other condition that may affect its safe operation. If a problem occurs with the Clamp Light, have the problem corrected before further use. Do not use damaged equipment.

Parts List

Part	Description	Q'ty
1	6" Spring Clamp	1
2	Handle	1
3	Knob	2
4	Flat Washer	2
5	Phillips Head Bolt	3
6	Halogen Bulb	1
7	Bracket	1
8	Wing Knob	1
9	Light Housing w/Cord	1
10	Grid	1

Parts Diagram



Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.



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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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