



SOLAR SECURITY LED LIGHT

Model	94747
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SET UP AND OPERATING INSTRUCTIONS



Visit our website at: <http://www.harborfreight.com>



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

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For technical questions or replacement parts, please call 1-800-444-3353.

Save This Manual

You will need the manual for the safety warnings and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep the manual and invoice in a safe and dry place for future reference.

SAFETY WARNINGS AND PRECAUTIONS

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

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose Control Unit to rain. Keep work area well lit. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right product for the job.** Do not attempt to force a small light or attachment to do the work of a larger industrial light. There are certain applications for which this product was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this item and do not use this product for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
8. **Maintain tools with care.** Keep tools maintained and clean for better and safer performance. Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician.
9. **Disconnect power.** Disconnect solar panel when security light is disconnected or turned off.
10. **Avoid unintentional starting.** Disconnect the solar panels from the control unit before doing any maintenance to the light.
11. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
12. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for any broken parts or mounting fixtures; and any other condition that may affect proper

operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.

13. **Guard against electric shock.** Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerator enclosures.
14. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
15. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
16. **Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.
17. **The warnings, cautions, 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.**

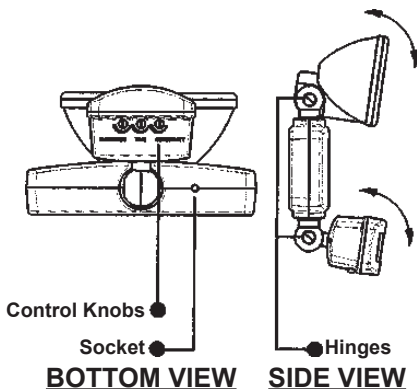
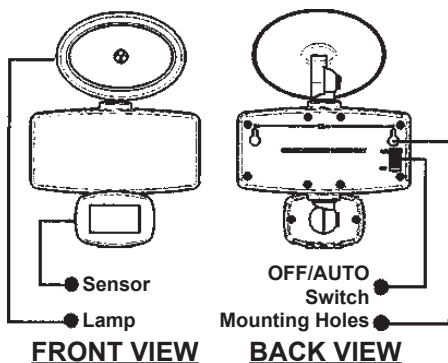
SPECIFICATIONS

Battery	600 mAh, 6V NiCd (5x'AA' Pack)
Sensor Range	Detects motion up to 25 feet away
Construction	Amorphous solar cells with LED light and battery in plastic case
Delay Time	3 – 45 seconds
Light Sensitivity	0 – 10000 Lux

UNPACKING

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353.

COMPONENTS



MOUNTING

The solar panel produces electricity in the presence of sunlight. The amount of electricity produced increases as the sunlight becomes stronger. Less power is produced in less sunlight, but the panel will generate electricity even on cloudy days.

This product includes a NiCd 6V rechargeable battery to store energy created during the day for use in the light at other times.

The security light uses a bright, energy efficient LED light which operates when the motion detector observes motion up to 25 feet away.

The range and direction of the motion detector may be adjusted to cover a small area, such as an entryway or a large area, such as a yard.

Mounting the Solar Panel:

1. Select a location for the solar panel that will allow sufficient sunlight to charge the battery.
2. The Solar Panel (1) is attached to the Panel Base (2). Using the screws provided attach the Panel Base to an appropriate location.

NOTE: The location selected must be able to support the weight of the solar panel, and any additional stress that may be placed on it by wind, etc. Installation may damage roofing material.

CAUTION: Whenever drilling holes or mounting screws check to be sure that no wires, pipes or other utilities are in the path of the holes or screws.

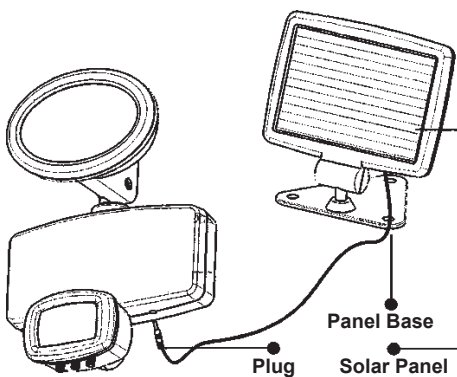
CAUTION: This is a rigid solar panel which may be damaged by bending or twisting. Be sure to locate this solar

panel in a way that it is protected from damage.

3. The Solar Panel can rotate on the Panel Base. Adjust the solar panel to maximize its exposure to sunlight.

Mounting the Sensor/Lamp Base:

1. Measure the distance between the mounting holes on the back of the Sensor/Lamp Base. Mark this distance on the surface where the lamp will be mounted. The Sensor/Lamp Base uses “keyhole” slots for the mounting screws. Install provided screws at the marked locations and mount the Sensor/Lamp Base on the screws.
2. Run the Cord from the Solar Panel to the Sensor/Lamp Base. Secure the Cord so it will not be pulled loose or damaged.



3. Insert the Plug from the Solar Panel into the Socket at the bottom of the Sensor/Lamp Base.
4. Adjust the Lamp (6) to shine where desired.
5. Adjust the Sensor (4) to detect movement in the desired area.

OPERATION

This device captures electrical energy from sunlight and stores it in a rechargeable battery. The motion sensor will detect motion, and will cause the security light to come ON. You have several adjustments available to suit this device to your particular needs.

1. On the back of the Sensor/Lamp Base there is a function switch. Select between OFF or AUTO. When in the OFF position, the security light will stay off. In the AUTO position, the light will come on only if the darkness level is less than the selected level and the motion sensor detects motion.
2. There are three knobs on the underside of the Sensor.
The “Darkness” knob sets the level of darkness required for the unit to operate, as long as the function switch is in the AUTO position. The range is from 0 Lux (total darkness) to 10,000 Lux (moderate indoor daylight).
The “Time” knob lets you set the duration of time the light will remain on after being triggered. The range is from 3 seconds minimum to 45 seconds maximum.
The “Sensitivity” knob lets you adjust the distance that is covered by the motion detector. You can also adjust the position of the Sensor to control its area of coverage.
3. Both the Sensor and the Lamp may be adjusted. Loosen the mounting screws on each, adjust the position, and retighten the mounting screws.

NOTE: It is recommended that the battery be charged for at least 14 hours of daylight before first use of the light.

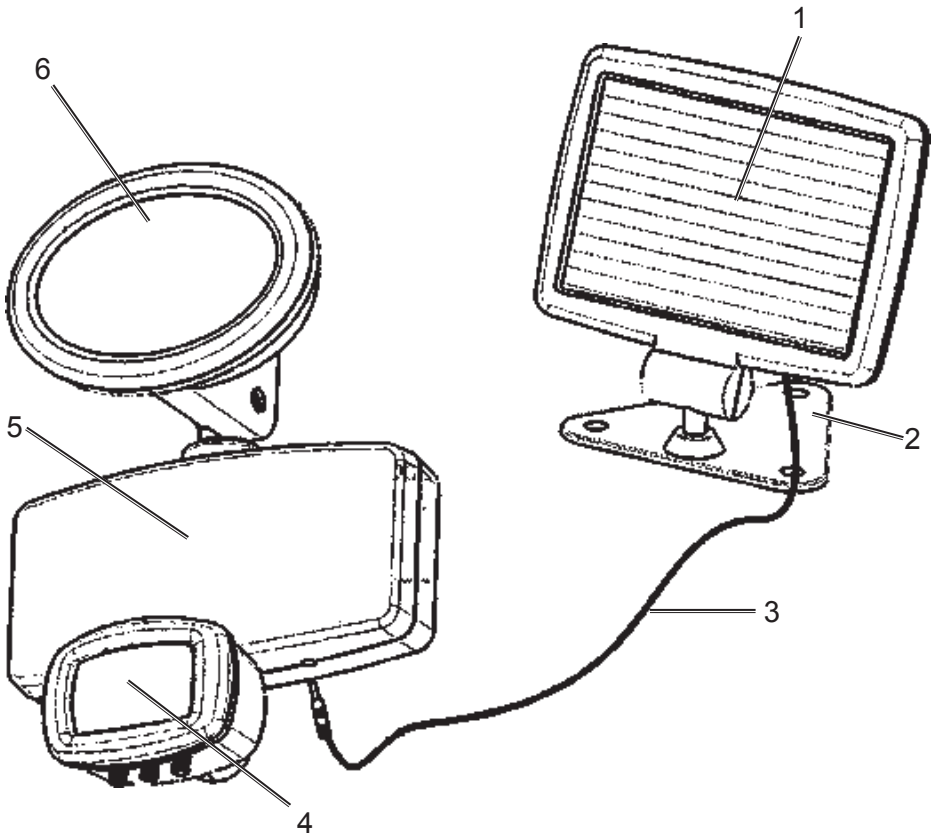
NOTE: As the ambient temperature rises above 98° F. the effective range of the motion detector will be reduced.

MAINTENANCE

1. Protect this device from damage or excess exposure to rain, sun and wind.
2. Occasionally clean the solar panel surface, Lamp and Sensor with a clean soft cloth. Do not use detergents or solvents for cleaning.
3. Occasionally check the Socket and Plug to be sure there is a good connection.
4. When the lamp no longer illuminates, even after receiving sufficient sunlight, the battery needs to be replaced.
NiCd batteries must be recycled or disposed of properly. To remove the battery, remove all screws at back of the Sensor/Lamp Base (same side where the OFF/AUTO switch is), open the cover, and replace the battery. Reassemble in the reverse order of assembly.

PARTS LIST AND DIAGRAM

Part	Description	Q'ty
1	Solar Panel	1
2	Panel Base	1
3	8' Cord	1
4	Sensor	1
5	Sensor/Lamp Base	1
6	Lamp	1
7	Mounting Screws m4 x 20 (not shown)	5



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.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR 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.