



# 36 LED SOLAR SECURITY LIGHT

**Model 98085**

## ASSEMBLY AND OPERATION INSTRUCTIONS



Diagrams within this manual may not be drawn proportionally.

Due to continuing improvements, actual product may differ slightly from the product described herein.

**Distributed exclusively by Harbor Freight Tools®.**

3491 Mission Oaks Blvd., Camarillo, CA 93011

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.**

Copyright© 2008 by Harbor Freight Tools®. All rights reserved. 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.

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

---

## 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 near the assembly diagram (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.

---

## IMPORTANT SAFETY INSTRUCTIONS

---

In this manual, on the labeling, and all other information provided with this product:



**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.**

### **DANGER**

**DANGER indicates a hazardous**

**situation which, if not avoided, will result in death or serious injury.**

### **WARNING**

**WARNING indicates a**

**hazardous situation which, if not avoided, could result in death or serious injury.**

### **CAUTION**

**CAUTION, used with the safety**

**alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

### **NOTICE**

**NOTICE is used to address practices not related to personal injury.**

### **CAUTION**

**CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.**

#### READ AND UNDERSTAND ALL INSTRUCTIONS

When using the Solar Security Light, safety precautions should always be followed including the following:

#### Work Area Safety

1. Dress Properly - Wear ANSI-approved safety goggles and heavy-duty work gloves. Do not wear loose clothing or jewelry. Wear protective hair covering to contain long hair.
2. Stay Alert - Watch what you are doing. Use common sense. Do not set up the Solar Security Light when you are tired. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
3. Keep children and bystanders away while installing this product. Distractions can cause you to lose control.
4. Verify that the installation surface has no hidden utility lines before drilling or driving screws.

#### Electrical Safety

1. Stay alert, watch what you are doing and use common sense when operating the Solar Security Light. Do not use this product while you are tired or under the influence of **drugs, alcohol or medication**. A moment of

inattention while operating the Solar Security Light may result in serious personal injury.

2. Use the Solar Security Light only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
4. Ni-Cd batteries must be recycled or disposed of properly. Do not incinerate.
5. Install Ni-Cd batteries only.
6. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
7. This product is not a toy. Keep it out of reach of children.
8. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
  - Avoid operating alone.
  - Do not use with power switch locked on.
  - Properly maintain and inspect to avoid electrical shock.
  - Any power cord must be properly

grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.

### **General Safety**

1. Do not use Solar Security Light for other than intended use.
2. Inspect before use. Do not use if parts are loose or damaged. Maintain labels and nameplates on the Solar Security Light. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
3. 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.**

## SPECIFICATIONS

Charge Time	6-8 hours
Power Source	(5), 1.2V, 600 mAh/6V, Ni-Cd rechargeable battery pack
Range	Detects motion over a range of 120° at 16 feet.
Delay	5-60 seconds
Working Conditions	14° - 131° F <80% RH

## UNPACKING

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

## ASSEMBLY



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

1. Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.
2. The Security Light should be set up at a location where you desire to have extra lighting to detect persons or objects moving at night or in the dark.
3. Decide where you want to place the Lamp (1) and Solar Panel (2). The Light is equipped with a connecting wire, so the Lamp (1) and Solar

Panel (2) can be installed only as far apart as the connecting wire allows.

4. Choose a location that receives full, direct sunlight a minimum of eight hours a day. The location should not be near nighttime light sources such as porch lights or streetlights as this will cause the Light to remain off.
5. During the day, the Solar Panel converts sunlight into electricity which recharges the batteries. The amount of light the Solar Panel receives depends on placement of the Light, geographic location and weather. If the weather is cloudy and the panel did not receive a full charge, the Light may not achieve full operating time.
6. Mount the Lamp (1) on a solid surface capable of supporting the Lamp (1) and secure enough so that it will not move when exposed to vibration or wind.

Figure 1



7. To mount the Lamp (1), the Screws (5) can be inserted into either the rear mounting holes or to the inside mounting holes as shown in Fig. 1. If using the inside mounting holes,

remove the Covers (3) to allow for insertion of the Screws.

8. Set the Lamp (1) to the angle height Drill holes for the enclosed screws. Make certain that the drilling path is clear of obstacles such as cables, gas and water pipes and electrical lines. Insert anchors into the holes. Thread in the enclosed Screws (5) to secure the Lamp (1) in position.  
**NOTE:** No anchors are needed if unit is mounted on wall studs.
9. Before mounting the Panel, make certain that the connecting wire will reach both the Lamp (1) and Panel (2). Install the Solar Panel the same way that you installed the Lamp in step 8, using the mounting holes located on the base of the Panel. Insert Screws (4) through mounting holes in the base.
10. Adjust the Motion Detector Head below the light by moving it left or right so that it faces the area where movement will occur.

---

## OPERATION

---



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

Figure 2



1. Plug the Mounting Wire (8) into the Lamp as shown in Figure 2.
2. Before it can operate to its full capacity, the Security Light needs to be in sunlight for two to three days. Turn the On/Off Button (see Figure 2) to the "OFF" position and wait two to three days before use.
3. Turn the switch to the "ON" position and wait about a minute. The light will turn itself on and then shut off three times to calibrate itself.
4. Wait one minute after the self calibration. The use the adjustment knob on the back of the motion sensor head to adjust the time that the light will stay on when the motion sensor detects movement.
5. The light will turn on automatically at night when motion is detected by the Motion Detector Head.

---

## INSPECTION AND MAINTENANCE

---

### **⚠️ WARNING** TO PREVENT SERIOUS INJURY

**FROM ACCIDENTAL OPERATION OR ELECTRIC SHOCK:**

**Before appliance inspection or maintenance, make sure the appliance's switch is turned off, and the unit has cooled completely.**

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

**Do not use damaged products.**

**BEFORE EACH USE**, inspect the general condition of the Solar Security Light. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.

1. When storing your Light indoors for more than 2 or 3 days, turn the ON/OFF Power Switch to "OFF".
2. Store the Light in a dry location free of dust and debris. Make certain that the Light is out of reach of children. Storing the Light for prolonged periods may damage the light or decrease performance.
3. Keep the Solar Panel free from dirt and debris. A dirty Solar Panel will keep the batteries from charging. Clean regularly with a damp cloth.

---

## Replacing the Batteries

---

Figure 3



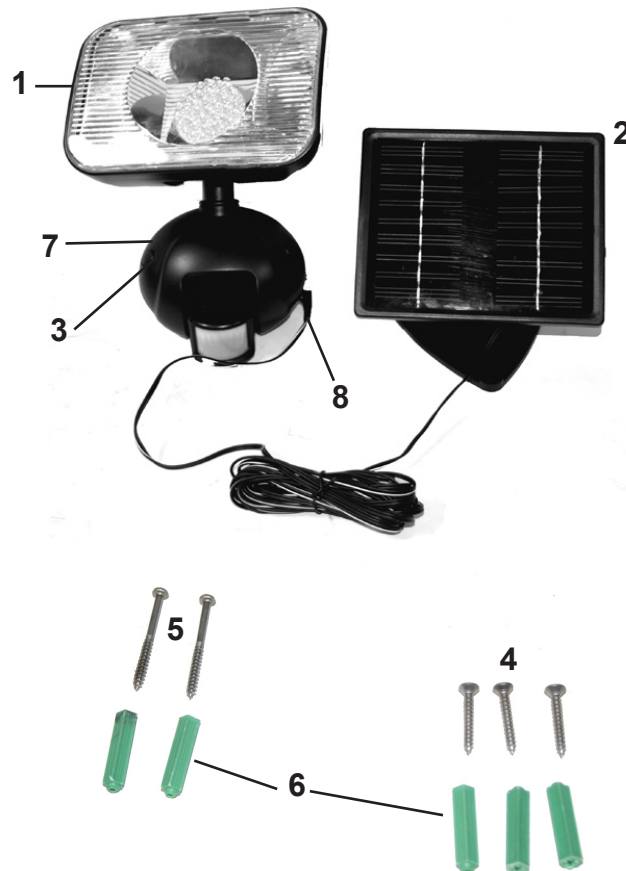
1. The Battery Pack is located in the Base of the Lamp (1). Remove the screws that connect the base together. Separate the base as shown in Figure 3.
2. Replace with a Ni-Cd battery pack of the same type.
3. Connect base back together and attach to Lamp, making certain that the Motion Detector Head (see Figure 3) is facing in the correct direction. Note: Be careful not to pinch wires when re-assembling.

**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.

<b>PARTS LIST</b>		
<b>Part</b>	<b>Description</b>	<b>Q'ty</b>
1	Lamp - 36 LED	1
2	Solar Panel	1
3	Cover	1
4	Screw #6 x 1"	3
5	Screw #6 x 1-9/16"	2
6	Anchor	5
7	Battery Pack	1
8	Connecting Wire	1

**ASSEMBLY DIAGRAM**



## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>