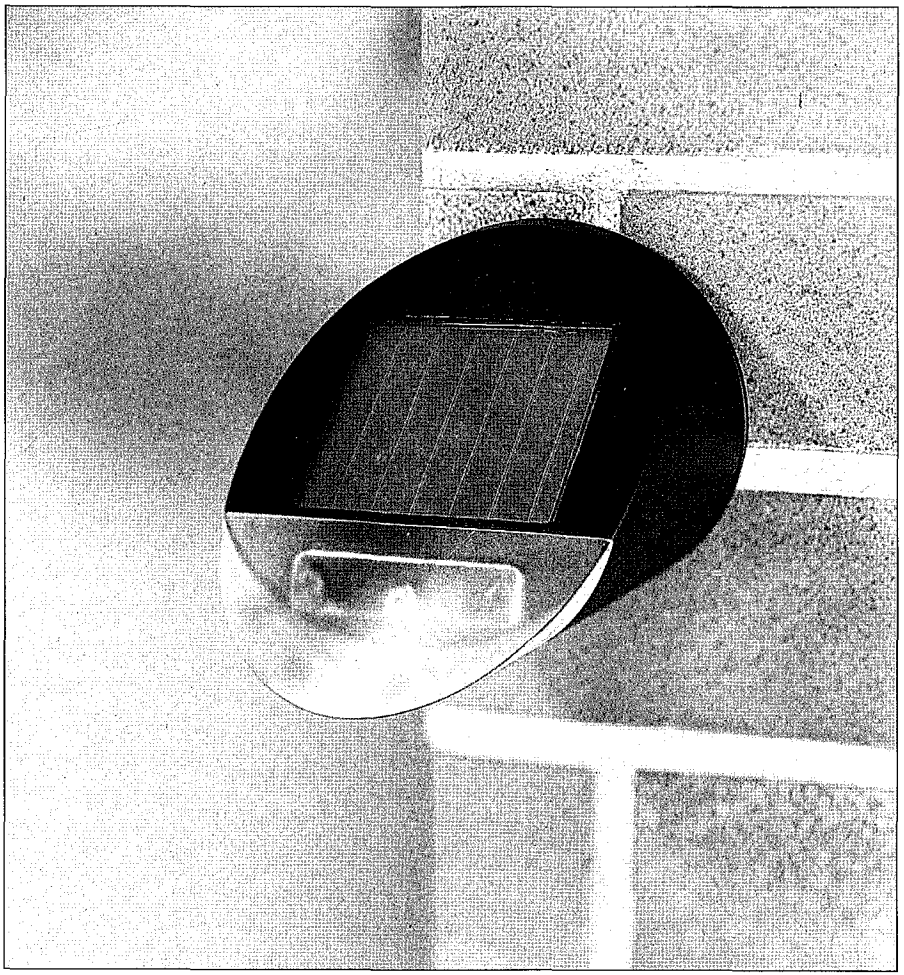
FORM NO. 3319-373

TORO®

MODEL 52500 | OPERATOR'S MANUAL

SOLAR MARKER LIGHT



OPERATOR'S MANUAL

- PLEASE READ THIS GUIDE COMPLETELY BEFORE USING THIS PRODUCT.
- KEEP THIS GUIDE FOR FUTURE REFERENCE.

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⚠ IMPORTANT

The **SOLAR MARKER LIGHT** is a Solar-Powered light. It is weather-proof, and intended to operate in **direct sun light**. Please locate your **SOLAR MARKER LIGHT** in a position where the Solar Panel will collect maximum sun light as it will greatly improve its performance.

The **SOLAR MARKER LIGHT** contains a rechargeable Nickel-Cadmium (Ni-Cd) battery. This rechargeable battery is shipped without charge. **Please pre-charge it for two days in direct sun light prior to first use, to ensure full charge!**

When the Ni-Cd battery life is exhausted, the battery must be recycled or disposed of properly. For additional information regarding disposal, contact your local county solid waste authority. **DO NOT DISPOSE OF BATTERY IN FIRE.**

A) CONTENTS

Unpack carefully the **SOLAR MARKER LIGHT** from the box; the box contains:

- 2 **SOLAR MARKER LIGHT** main bodies
- 2 Mounting Stakes
- 4 wall mount screws

B) SET UP

1. Carefully remove the **SOLAR MARKER LIGHT** Mounting Stakes and Screws from the box.
2. Choose a brightly sun-lit location. Push the Mounting Stake into the ground approximately 4-6 inches (10-15cm). ***Do not hammer the stake.***

⚠ DANGER

Contact with buried utility lines could result in death or serious injury. Before digging any hole or placing stake in ground, contact your utility companies to make sure that there are NO buried lines!

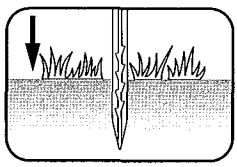


Fig. 1

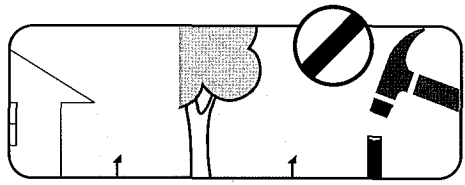


Fig. 2

3. Place the **SOLAR MARKER LIGHT** body over the stake, align the mounting hole and screw onto the stake. **Do not put pressure on the top of the unit.**

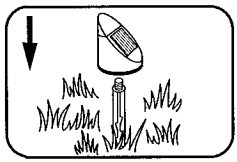


Fig. 3

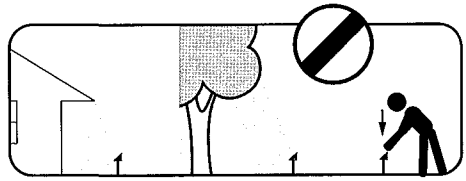


Fig. 4

4. Turn the unit so that the Solar Panel is facing to the South.

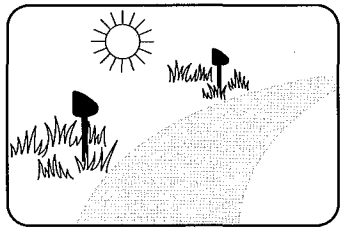


Fig. 5

5. The **SOLAR MARKER LIGHT** can be mounted on a wall as shown in figure 6. Mark the two mounting holes as in figure 7 through the template supplied. Pre-drill the holes, and screw in the two screws supplied. Slide the **SOLAR MARKER LIGHT** from top down onto the two mounting screws.

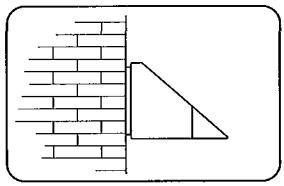


Fig. 6

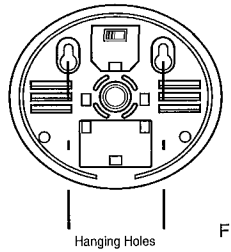


Fig. 7

Note: Adjust the **SOLAR MARKER LIGHT** body such that the Solar Panel is exposed to **direct sunlight** for as long as possible during the day. Any shading or shadows that may block sunlight during the day will reduce the light run time at night.

C) PERFORMANCE

During the day, the Solar Panel converts sunlight into electricity and recharges the battery. At night, the light turns on automatically using the electricity stored during that day.

The number of hours of light is determined by the number of hours that direct sunlight strikes the Solar Panel.

1. The number of hours the light will stay on is dependent on your geographical location, weather conditions and seasonal lighting availability.
2. Solar lights do not receive as much direct sunlight in winter months. Therefore, the number of hours the light will stay on will be reduced during winter.
3. If the weather has been cloudy or overcast during the day, the batteries will not be recharged for operation at night. The light must have direct sunlight every day to fully charge the batteries. If the light does not receive enough sunlight one day, it will recharge the next sunny day and resume normal operation.

D) LOCATION

1. Be sure to place the **SOLAR MARKER LIGHT** in direct sunlight. A southern exposure is best.
2. Be sure that the **SOLAR MARKER LIGHT** is placed such that it will not be in shade during the day. Shade will limit the amount of light you get from your **SOLAR MARKER LIGHT**.

E) OPERATION

1) INITIAL CHARGE:

Place the **SOLAR MARKER LIGHT** in full sun for two days to charge the battery before first use. Please move the Power Switch to the OFF position during this charge period. Repeat this procedure every three (3) months to fully recharge the battery.

2) DAILY / NORMAL OPERATION:

The Power Switch is located at the bottom of the **SOLAR MARKER LIGHT**. The Power Switch has 2 positions; OFF and AUTO.

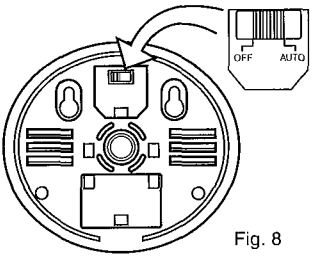


Fig. 8

Turn to AUTO:

- For normal operation of unit, the **SOLAR MARKER LIGHT** will automatically turn ON during night time, and OFF during the day.

Turn to OFF:

- For charging, shipping or extended periods of non-use (storage).
- The **SOLAR MARKER LIGHT** will not operate when the Power Switch is in the OFF position. However, charging can be made by the Solar Panel.
- Fully recharge the battery every three (3) months by following the INITIAL CHARGE instructions. Recharge the battery prior to storage of unit.
- Never store unit with Power Switch in the "AUTO" position. This will damage the batteries and they will not recharge.

F) TROUBLE-SHOOTING

If your **SOLAR MARKER LIGHT** does not function properly, make sure that you have read the above operation instructions, then take the following steps:

1. Examine the **SOLAR MARKER LIGHT** to make sure that the Solar Panel is not broken.
2. Move the switch back and forth between "AUTO" and "OFF" a few times.
3. Carefully clean the transparent lens with a dampened cloth to ensure clarity and efficient collection of sun energy by the Solar Panel. Take extreme care not to scratch the lens.
4. Make sure that the **SOLAR MARKER LIGHT** is located such that no other light is shining on it after dark. The **Solar Panel must be in darkness** at night or the **SOLAR MARKER LIGHT** will sense that it is still daytime and will not turn on.
5. If your **SOLAR MARKER LIGHT** is not functioning while the Power Switch is in AUTO position, turn the Power Switch to the "OFF" position and place the **SOLAR MARKER LIGHT** in **full sun** for **two days** to refresh and fully charge the battery.
6. Make sure that the **SOLAR MARKER LIGHT** is located where it will not be in shade at any time during the day, with the Solar Panel facing to South.

To order additional parts or for technical assistance: 1 (800) 321-8676.

G) REPLACING BATTERY:

⚠ IMPORTANT

To avoid damage to the product, the Power Switch must be in the OFF position when replacing the battery.

To replace the Battery: (Use 2.4V/280mAh, Ni-Cd Battery)

Remove the **SOLAR MARKER LIGHT** from the mounting stake or wall bracket.

Remove the two screws from the bottom cover. Take the battery out and disconnect the 2 battery wire leads gently. Before putting the new battery pack into place, attach the 2 wire leads to the battery contacts while carefully observing the placement of the red plus (+) sign sticker. See illustrations. Make sure to plug the red wire onto the battery terminal to which is affixed the red plus (+) sign sticker. Plug the black wire onto the remaining battery terminal (-). Seat the battery pack into place and re-attach the cover.

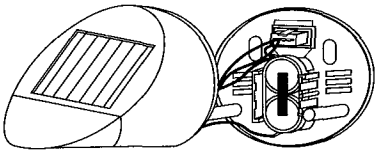


Fig. 9a

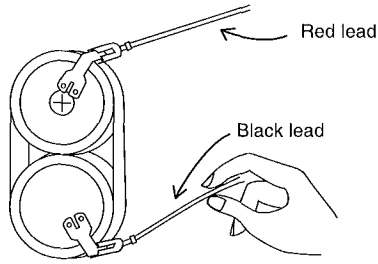


Fig. 9b

⚠ CAUTION

Short-circuiting battery terminals or wires generates heat which may damage equipment and cause burns. A short-circuit will occur if the battery terminals contact each other through frayed wires, metallic tools, or other conductive objects such as jewelry or keys. Do not short-circuit battery terminals or wires. The battery might rupture resulting in personal injury.

⚠ IMPORTANT

To avoid damage to product do not immerse product in water or any liquid. Do not pull, cut or pinch any wires when replacing battery.

♲ Nickel Cadmium batteries must be recycled or disposed of properly.

H) CLEANING

It is important that the Solar Panel is kept free of dirt and debris. A dirty Solar Panel will not allow the battery to fully charge. Clean the top surface of the unit regularly with a soft cloth dampened with water. Do not use solvents. Take extreme care not to scratch the clear cover.

Wintertime tip: Clean snow and debris off the top of the unit so that the battery can recharge.

The Toro Promise

A Full Warranty

The Toro Company warrants this TORO Product against defects in material or workmanship.
The following time periods apply from date of purchase.

- Standard Light Kits Two years

  (Pathway Light, Floodlight fixtures, and Solar Powered Lights)

- Premium Light Kits Five years

  (Traditional Pathway, Varifocus®, Colonial, Contemporary, and Wood Deck fixtures)

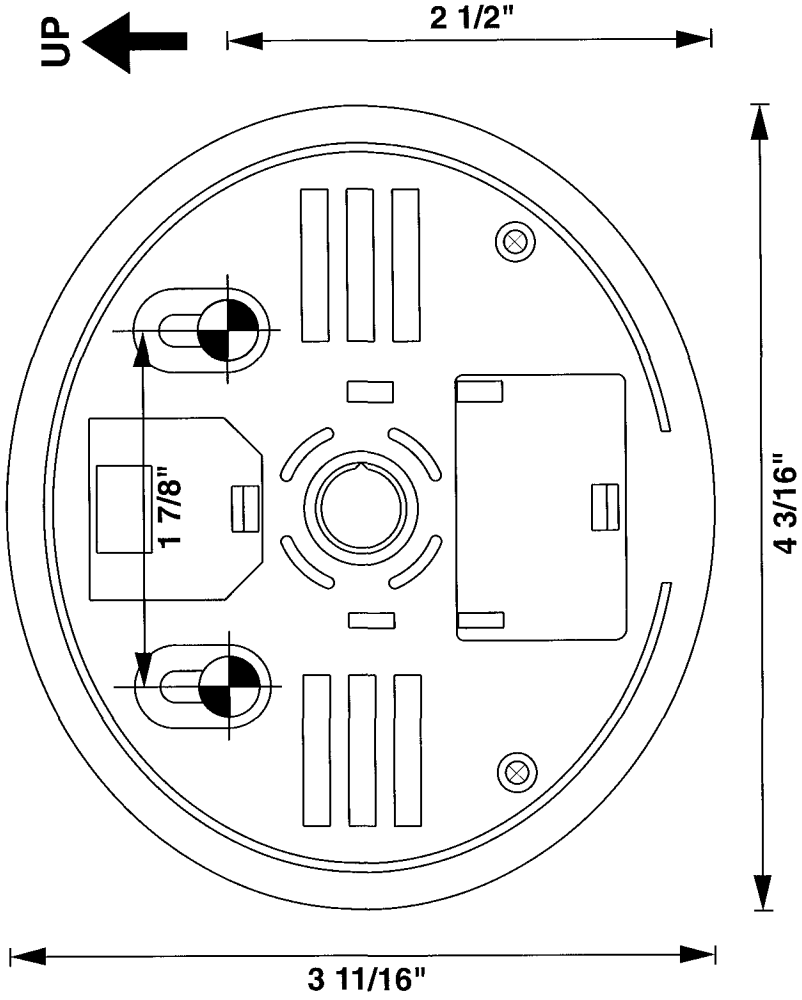
To receive a replacement or repair, at Toro's option, just return the defective component (light fixture, power pack or wire), postage prepaid, to the seller or the TORO Service Center, 5300 Shoreline Blvd., Mound, MN 55364 along with proof of purchase. This warranty covers product defects only. Warranty excludes bulbs.

The Toro Company is not liable for indirect, incidental or consequential damages in connection with the use of TORO products covered by this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

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

PROTOTYPE

PROTOTYPE



MARK THIS ⊕ LOCATION ON THE WALL