FORM NO. 3319-375

TORO®

MODEL 52502

OPERATOR'S MANUAL

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

The **SOLAR GARDEN 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

Carefully unpack the **SOLAR GARDEN LIGHT** from the box; the box contains 6 parts:

- **SOLAR GARDEN LIGHT** main body
- 2 Mounting Poles
- 1 Connector
- 1 Post Tip
- 1 Pre-assembled Swivel Head Plate

B) SET UP

1. Carefully remove the **SOLAR GARDEN LIGHT** and Mounting Poles from the box.
2. Remove the label from the Top Lens of the **SOLAR GARDEN LIGHT.**
3. Attach the Post Tip to one of the Mounting Poles.
4. If a taller mount is desired, attach the other Mounting Pole using the Connector.
5. Slide the Swivel Head Plate assembly into the open end of the Mounting Pole.
6. Assemble the Mounting Pole to the **SOLAR GARDEN LIGHT** by sliding the Head Plate into the recessed slot on the bottom of the unit.
7. Choose a brightly sun-lit location. Dig a narrow hole a minimum of 6" deep and set the **SOLAR GARDEN LIGHT** into the ground securely. Install the **SOLAR GARDEN LIGHT** with the Solar Panel facing South in order to obtain the most sunlight.

⚠ 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!

(Note: The angle of the Swivel Head Plate assembly can be adjusted up or down 15 degrees to compensate for the sun angle change in winter and summer. Adjust so that the Solar Panel faces most directly into the sun during the brightest part of the day).

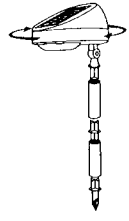

Fig. 1a

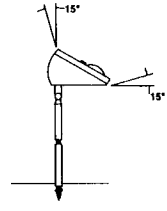

Fig. 1b

8. The head of the **SOLAR GARDEN LIGHT** can be rotated to make facing the Solar Panel to the South easier for your installation. It can also be rotated to maximize the collection of sunlight to compensate for the sun angle change during different times of the day in winter and summer.

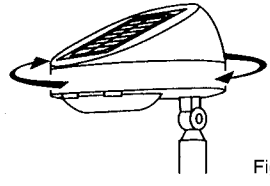

Fig. 2

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 GARDEN LIGHT in direct sunlight**. A southern exposure is best.
2. Be sure that the **SOLAR GARDEN 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 GARDEN LIGHT**.

E) OPERATION

1) INITIAL CHARGE:

- Place the **SOLAR GARDEN LIGHT** in full sun for two days to charge the battery before first use. Please move the Power Switch to the OFF position while charging.
- You may use the optional AC adapter **(TORO MODEL 52504)** to charge the battery for 24 to 36 hours (maximum) to ensure that it has a full charge prior to normal operation. The charge adapter is designed for INDOOR USE ONLY. Bring the **SOLAR GARDEN LIGHT** indoors when charging with the adapter. Do not leave the adapter connected for extended periods of time or the batteries will be damaged and they will not recharge.
- Repeat this procedure every three (3) months to fully recharge the battery.

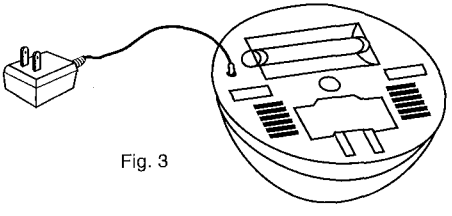

Fig. 3

2) DAILY / NORMAL OPERATION:

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

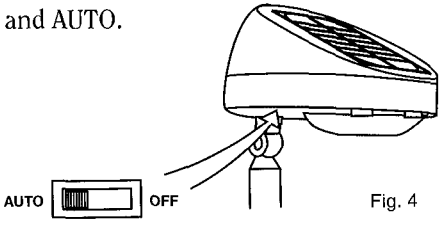

Fig. 4

Turn to AUTO:

- For normal operation of unit, the **SOLAR GARDEN 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 GARDEN LIGHT** will not operate when the Power Switch is in the OFF position. However, charging can be made by the Solar Panel or the optional adapter.
- 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 GUIDE

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

1. Examine the **SOLAR GARDEN 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. Make sure that the light sensor (Solar Panel) is located such that no other light is shining on it after dark. It must be in darkness at night or the **SOLAR GARDEN LIGHT** will sense that it is still daytime and it will not illuminate.
4. Make sure that the **SOLAR GARDEN LIGHT** is located where it will not be in shade at any time during the day.
5. If your **SOLAR GARDEN LIGHT** is not functioning, turn the switch to the "OFF" position and leave it off for a few days, allowing the battery to charge to full capacity. Then turn the switch to the "AUTO" position and watch it that night. Make sure that you follow the instructions above.

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

G) REPLACING THE BATTERY AND FLUORESCENT LAMP

⚠ IMPORTANT

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

⚠ CAUTION

Fluorescent lamp may shatter if dropped or damaged. Broken lamp with sharp glass fragments may result in personal injury. Wear clean gloves and eye protection when handling lamp. Be extremely careful when handling lamp; especially if it is broken, to avoid cuts.

1) To replace the Battery:

Remove the **SOLAR GARDEN LIGHT** from the Mounting Poles. Remove the four screws securing the battery cover from the bottom of the unit. Remove the cover. You can see the battery inside. Take the battery out and disconnect the 2 wire leads gently. Replace with new battery (use 6V, 600mAh, 'AA' Ni-Cad). Gently attach the 2 wire leads, Red to (+), Black to (-). Put the battery into the unit and reattach cover.

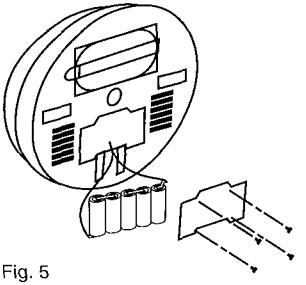

Fig. 5

2) To replace the fluorescent lamp

Remove the screw, slide out the clear lens. Rotate the fluorescent lamp 90°, then take it out. Replace with a new fluorescent lamp (4W).

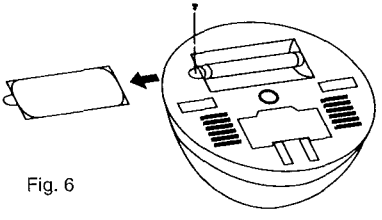

Fig. 6

⚠ 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.