

KXKKIAXHA-WHITE-1SET

Generic Solar Powered Automatic Garden Irrigation Kit (Model: KXKKIAXHA-WHITE-1SET) User Manual

Comprehensive instructions for installation, operation, and maintenance.

1. INTRODUCTION

This manual provides detailed instructions for the Generic Solar Powered Automatic Garden Irrigation Kit, Model KXKKIAXHA-WHITE-1SET. This system is designed to provide automated watering for potted plants, balconies, and small gardens, utilizing solar power for energy efficiency. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of the product.

2. SAFETY INFORMATION

- Ensure all connections are secure to prevent water leakage.
- Do not submerge the control unit in water. It is designed to be weather-resistant, not submersible.
- Keep the solar panel clean and free from obstructions to ensure optimal charging.
- Use only clean water in the reservoir to prevent clogging of emitters.
- Keep out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- Solar Powered Control Unit with Integrated Pump
- Water Pipe (15m)
- Adjustable Drip Emitters
- T-Connectors
- End Caps
- Filter for Water Reservoir
- Mounting Accessories (screws, wall plugs)
- User Manual



Figure 3.1: Overview of the Solar Powered Automatic Garden Irrigation Kit components. This image displays the main control unit, a roll of irrigation tubing, various drip emitters, T-connectors, and other small accessories required for assembly.

4. PRODUCT OVERVIEW

The Generic Solar Powered Automatic Garden Irrigation Kit is designed for efficient and automated plant watering. Key features include:

- **Solar Power:** Operates without external electricity, charging via an integrated solar panel.
- **Automatic Watering:** Programmable schedules for daily plant care, ideal for vacation watering.
- **Adjustable Drip Emitters:** Customize water flow for different plant types and needs.
- **Water Efficiency:** Drip irrigation delivers water directly to roots, minimizing waste.
- **Easy Installation:** Simple setup for potted plants, flower pots, and small gardens.



Figure 4.1: Example applications of the irrigation kit. This image shows the control unit and tubing system watering multiple potted plants, demonstrating its versatility for both indoor and outdoor use, such as on a balcony or with a plant stand.

5. SETUP

5.1. Choosing a Location

Select a location for the control unit where the solar panel receives direct sunlight for several hours daily. The unit should be placed near your water source (e.g., a bucket or reservoir) and within reach of the plants to be watered.

5.2. Mounting the Control Unit

1. Using the provided screws and wall plugs, mount the control unit securely on a wall or sturdy surface. Ensure the solar panel faces upwards towards the sun.
2. Alternatively, the unit can be placed on a flat surface if stable and exposed to sunlight.

5.3. Connecting the Water Source

1. Place a water reservoir (e.g., a bucket) filled with clean water near the control unit.
2. Insert the filter end of the intake hose into the water reservoir, ensuring it reaches the bottom.
3. Connect the other end of the intake hose to the designated inlet port on the control unit.

5.4. Installing the Drip System

1. Connect the main irrigation tubing to the outlet port of the control unit.
2. Route the tubing to your plants. Use T-connectors to branch off the main line to individual plants.
3. Cut the tubing to appropriate lengths for each plant.
4. Insert an adjustable drip emitter into the end of each branch tube, positioning it near the base of the plant.
5. Secure the tubing and emitters using the provided stakes or clips to prevent displacement.
6. Cap any unused tubing ends with end caps to maintain pressure.

6. OPERATION

6.1. Initial Charge

Before first use, allow the control unit to charge in direct sunlight for at least 8 hours to ensure the internal battery is sufficiently powered.

6.2. Programming Watering Schedule

Refer to the specific instructions on the control unit's display and buttons for programming. Typically, you will set:

- **Watering Frequency:** How often the system waters (e.g., every 12 hours, daily, every 2 days).
- **Watering Duration:** How long the pump runs during each watering cycle (e.g., 30 seconds, 1 minute, 5 minutes).

Tip: Start with shorter durations and observe your plants' moisture levels. Adjust as needed. Different plants have different water requirements.

6.3. Adjusting Drip Emitters

The drip emitters are adjustable. Rotate the cap on each emitter to increase or decrease the water flow rate to suit individual plant needs. Ensure water is delivered directly to the root zone.

6.4. Manual Watering

Most control units include a manual watering button. Press this button to initiate a watering cycle outside of the programmed schedule. The duration of manual watering may be preset or adjustable.

7. MAINTENANCE

- **Clean Solar Panel:** Regularly wipe the solar panel with a soft, damp cloth to remove dust and debris, ensuring efficient charging.
- **Check Water Reservoir:** Ensure the water reservoir is always filled. Do not let the pump run dry for extended periods.
- **Clean Filter:** Periodically remove and clean the intake filter in the water reservoir to prevent clogging.
- **Inspect Tubing and Emitters:** Check for any blockages, kinks, or leaks in the tubing and emitters. Clean or replace as necessary.
- **Winter Storage:** In freezing conditions, drain all water from the system and store the control unit and tubing indoors to prevent damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
System not watering.	Low battery charge. Empty water reservoir. Clogged intake filter. Incorrect schedule setting.	Ensure solar panel receives direct sunlight. Refill water reservoir. Clean the intake filter. Verify programming.
Uneven water distribution.	Clogged emitters. Kinked tubing. Emitters not adjusted correctly.	Clean or replace emitters. Straighten tubing. Adjust emitter caps for desired flow.
Water leakage.	Loose connections. Damaged tubing/emitters.	Tighten all connections. Inspect and replace damaged components.
Solar panel not charging.	Panel is dirty or obstructed. Insufficient sunlight.	Clean the solar panel. Relocate the unit to a sunnier spot.

9. SPECIFICATIONS

- **Model:** KXKKIAXHA-WHITE-1SET
- **Material:** PVC/ABS
- **Water Pipe Length:** 15 meters
- **Power Source:** Solar Powered
- **Application:** Home gardening, agricultural production, public green ground, gardening and gardening production.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer where the product was purchased or contact Generic customer service through their official channels. Keep your purchase receipt as proof of purchase.