TRJZWA TRJZWA-SDS01

TRJZWA Solar Automatic Drip Irrigation Kit System User Manual

Model: TRJZWA-SDS01

Introduction

The TRJZWA Solar Automatic Drip Irrigation Kit System is designed to provide efficient and automated watering for your plants, whether indoors or outdoors. This system features a split dual-pump design, solar charging, and intelligent water level monitoring to ensure your plants receive optimal hydration with minimal effort. It is ideal for gardens, balconies, lawns, greenhouses, and potted plants, offering convenience for busy individuals or during vacations.

Safety Information

- Ensure the system is installed in a location with adequate sunlight for optimal performance and to prevent damage to the system.
- Keep electrical connections dry and away from direct water exposure.
- Do not submerge the main control unit in water.
- Regularly check tubing for kinks or blockages to ensure proper water flow.
- Keep out of reach of children and pets.

Package Contents

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

- Timer controller (Water pump) x 1
- Solar panel x 1 (including solar panel bracket, nut x 2, screw x 2)
- Water level detection line x 1
- Small water pipe 15 meters x 2
- Drip head x 30
- Tee x 30
- Anti-siphon x 2
- Filter x 2
- Internal hexagonal screwdriver x 1
- Screw x 2
- Instruction manual x 1

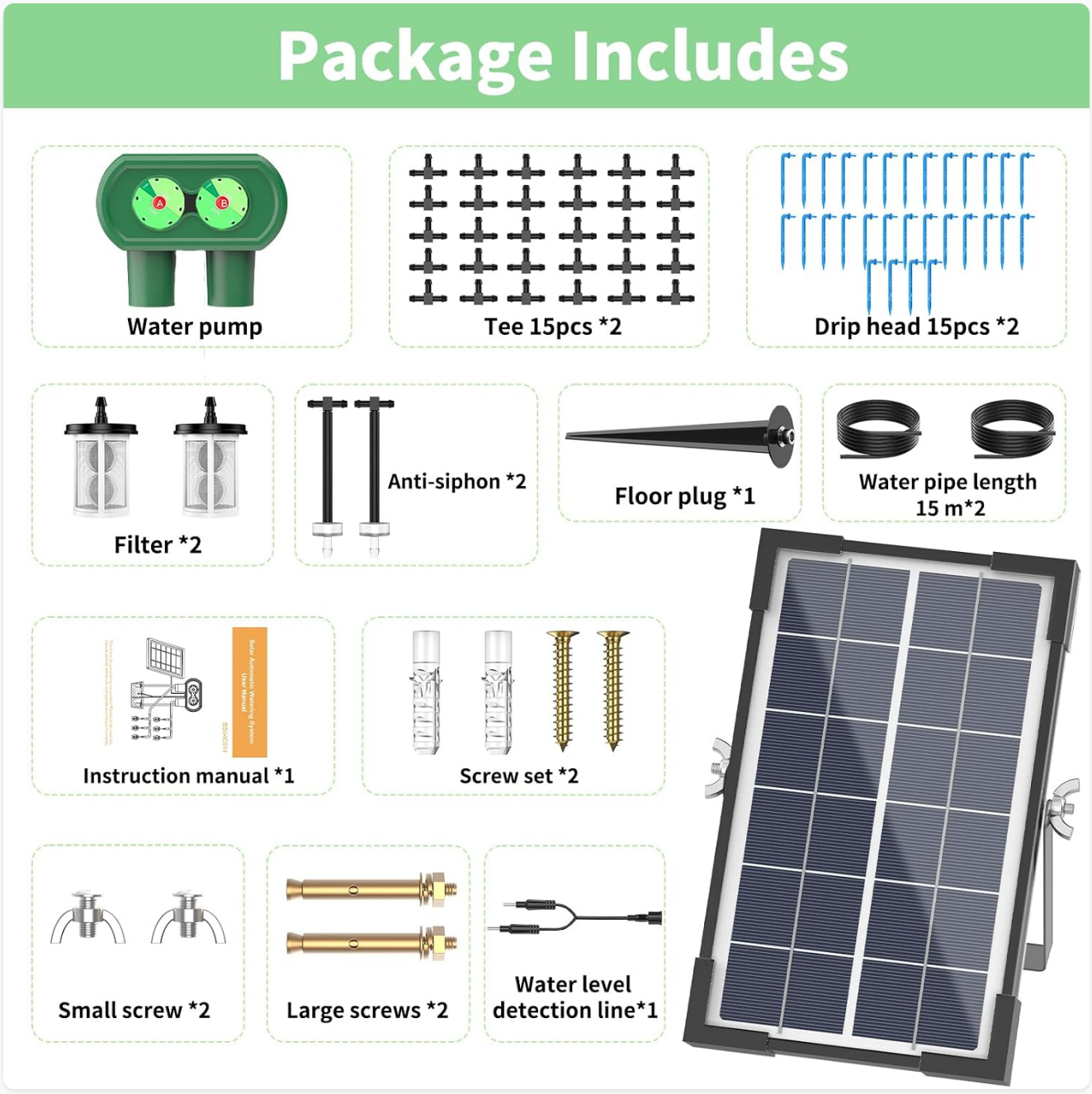


Image: Overview of all components included in the package, such as the main control unit, solar panel, tubing, drip emitters, and various connectors.

Setup Instructions

Component Identification

Familiarize yourself with the main components before beginning installation:

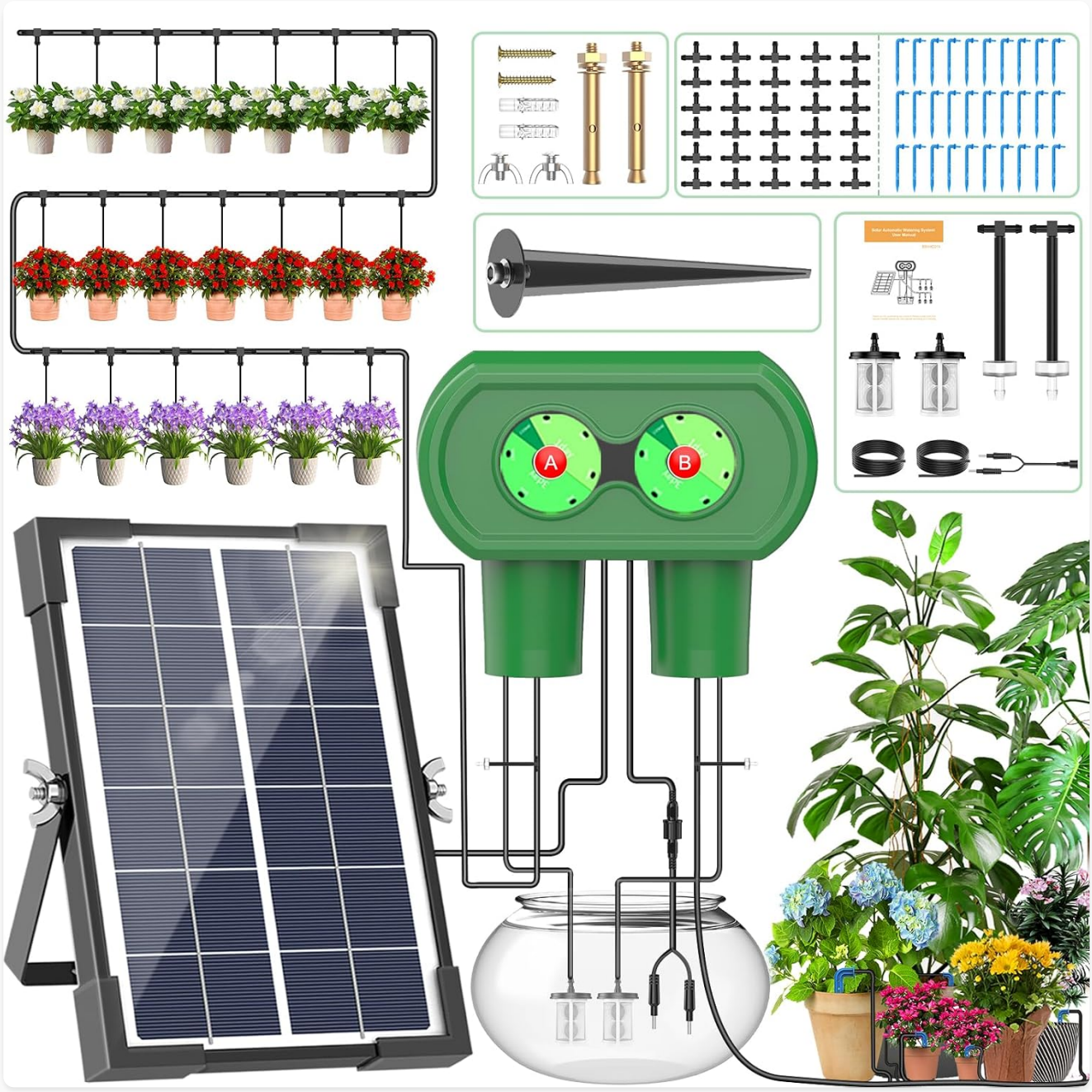


Image: A comprehensive diagram illustrating the main control unit, solar panel, water source, tubing, and drip emitters, showing how they connect.

Installation Steps

Follow these steps to set up your irrigation system:

1. **Install Solar Panel:** Connect the solar panel to the main control unit.
2. **Connect Water Level Line:** Attach the water level detection line to the designated port on the control unit.

3. **Cut Water Pipe:** Measure and cut the small water pipe to the desired lengths for your plant layout.
4. **Connect Water Pipe to Filter:** Attach one end of a water pipe to a filter.
5. **Install New Water Hose to Water Inlet:** Connect the filtered water pipe to the water inlet on the control unit.
6. **Connect Water Pipe to Anti-siphon:** Install the anti-siphon device in line with the water pipe to prevent backflow.
7. **Water Pipe Connected to Water Outlet:** Connect the main distribution pipes from the water outlets of the control unit.
8. **Connect Water Pipe to Tee:** Use the Tee connectors to branch off the main water pipe to individual plant locations.
9. **Connect Water Pipe to Drip Tip:** Attach the drip heads to the end of each branch pipe, positioning them near the base of each plant.
10. **Put Water Level Line and Filter into Water:** Place the water level detection line and the filters into your water reservoir (e.g., a bucket or tank).



Image: A visual step-by-step guide demonstrating the assembly process, from connecting the solar panel to placing the water level sensor.

The system can be set up for both indoor and outdoor use, ensuring your plants are watered consistently.



Image: Demonstrates the versatility of the system, showing it installed with indoor potted plants and also in an outdoor garden setting.

Operating Instructions

Powering On and Initial Charge

Once assembled, ensure the solar panel is exposed to sufficient sunlight to charge the internal battery. The system will automatically begin charging.

Setting Watering Modes (Dual Pump Operation)

The TRJZWA system features a split dual-pump design, allowing independent control of two watering zones (Pump A and Pump B). Each pump has 6 timing modes.



Image: A detailed view of the control unit, highlighting the separate dials for Pump A and Pump B, which are used to set the watering schedule.

- **Independent Control:** Use the 'A' button and 'B' button to control the watering time for Pump A and Pump B respectively.
- **Timing Modes:** Each pump offers 6 watering working settings. Refer to the dial markings for specific intervals (e.g., 1 minute, 5 minutes, 10 minutes for 24H cycle; 1 minute, 5 minutes, 15 minutes for 72H cycle).
- **Manual Watering:** Each time the MODE button is pressed, the system waters once and restarts the timer.
- **Capacity:** The system can water up to 30 plants simultaneously.

Set the desired watering frequency and duration for each pump according to your plants' needs. The system will then automatically water based on your settings.



Image: The system in operation, illustrating its benefit for automated plant care, allowing users to travel without concern for watering.

Maintenance

Water Level Monitoring

The solar irrigation system is equipped with a water level sensor. If the water level in your reservoir is too low, the system will emit a beeping sound to alert you.



Image: A visual representation of the water shortage alert, showing the control unit and a flashing red light to indicate the need for water refill.

- When the alarm sounds, immediately check your water reservoir.
- Refill the water to ensure continuous operation.

Cleaning Filters and Pumps

The system's filters prevent debris from entering the pumps and tubing. Over time, these filters may become clogged, affecting water flow.

- If the water pump or filter is clogged, the system may also beep.
- Regularly inspect and clean the filters to maintain optimal performance.
- Disconnect the filters and rinse them thoroughly under clean water.
- Ensure the pump inlets are clear of any obstructions.

Troubleshooting

Problem	Possible Cause	Solution
System not watering / No water flow	Low water level in reservoir; Clogged filter or pump; Kinked or blocked tubing; Insufficient battery charge.	Refill water reservoir; Clean filters and pump inlets; Check all tubing for obstructions; Ensure solar panel receives adequate sunlight.
Alarm (beeping sound)	Low water level; Clogged filter or pump.	Refill water reservoir; Clean filters and pump inlets.
One pump not working (e.g., Pump A or Pump B)	Pump specific blockage; Faulty pump.	Check the filter and tubing specifically connected to the non-working pump for blockages. If problem persists, contact customer support.
LED indicator stuck at solid red	System malfunction; Sensor issue.	Ensure water level is adequate and filters are clean. If the issue persists despite normal operation, monitor system performance closely. If it affects functionality, contact customer support.

Product Specifications

Feature	Specification
Product Dimensions	6.89 x 4.13 x 8.86 inches; 3.28 Pounds
Item Model Number	TRJZWA-SDS01
Manufacturer	TRJZWA
Brand	TRJZWA
Style	Modern
Material	Rubber, Plastic
Model Name	BSV-IC014

Warranty and Support

For warranty information and customer support, please refer to the documentation included with your product or visit

the official TRJZWA website. Specific warranty terms and conditions may vary.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question