Hampton Bay 4330212614

Hampton Bay Low-Voltage 45-Watt Landscape Transformer Instruction Manual

Model: 4330212614

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Hampton Bay Low-Voltage 45-Watt Landscape Transformer. This unit is designed to power low-voltage landscape lighting systems, offering convenient features and robust safety mechanisms. Its potted toroidal core design ensures quiet operation and high efficiency. The transformer includes a photocell and digital timer for automated control, along with dual voltage output terminals (12-Volt and 15-Volt) to optimize performance for various lighting setups and wire lengths.

2. Safety Information

Please read and understand all safety instructions before installing or operating this transformer. Failure to follow these instructions may result in electric shock, fire, or property damage.

- **Electrical Safety:** Always disconnect power at the circuit breaker before performing any installation or maintenance. Ensure all connections are secure and properly insulated.
- **UL-Approved Housing:** The transformer features UL-approved 5VA durable plastic housing, designed for outdoor use and resistance to weather and corrosion.
- **Ground Shield:** Equipped with a ground shield, this transformer is safe for use with submersible lights.
- **Protection Features:** Built-in and resettable short circuit, overload, and surge protection mechanisms are integrated to detect and react to system faults, enhancing safety and product longevity.
- **Placement:** Install the transformer in a location that allows for proper ventilation and is protected from direct water spray.

3. Package Contents

Verify that all components are present before beginning installation:

- Hampton Bay Low-Voltage 45-Watt Landscape Transformer Unit

- Remote Photocell with Cable
- Mounting Screws (various sizes)
- Wall Anchors
- Wire Nuts/Caps



Figure 3.1: Included accessories for the Hampton Bay Low-Voltage Landscape Transformer. This image displays the remote photocell with its cable, various mounting screws, and wall anchors, which are essential for installation.

4. Product Features

The Hampton Bay Low-Voltage 45-Watt Landscape Transformer offers the following key features:

- Outdoor plug-in unit with weather-durable and corrosion-resistant UL-approved 5VA plastic housing.
- Remote photocell for automatic dusk-to-dawn operation.
- Easy-to-use digital display with preset functions: clock display, photocell dusk to dawn, timer On/Off, photocell On/timer Off, and manual On/Off.
- Suitable for use with submersible fixtures due to its ground shield.
- Meets the Department of Energy (DOE) mandatory efficiency rating of VI.
- Built-in and resettable short circuit, overload, and surge protection for enhanced safety.
- Dual voltage output terminals (12-Volt and 15-Volt) to compensate for voltage drops in high-wattage or longer wire runs, and to reduce cable loss with 15-Volt LED fixtures.

5. Installation

5.1 Mounting the Transformer

1. Select a suitable outdoor location near a GFCI-protected electrical outlet. The transformer is designed for wall mounting.
2. Using the transformer as a template, mark the desired screw locations on the mounting surface.
3. Drill pilot holes and insert wall anchors if mounting into drywall or masonry.
4. Secure the transformer to the wall using the provided mounting screws. Ensure it is firmly attached.

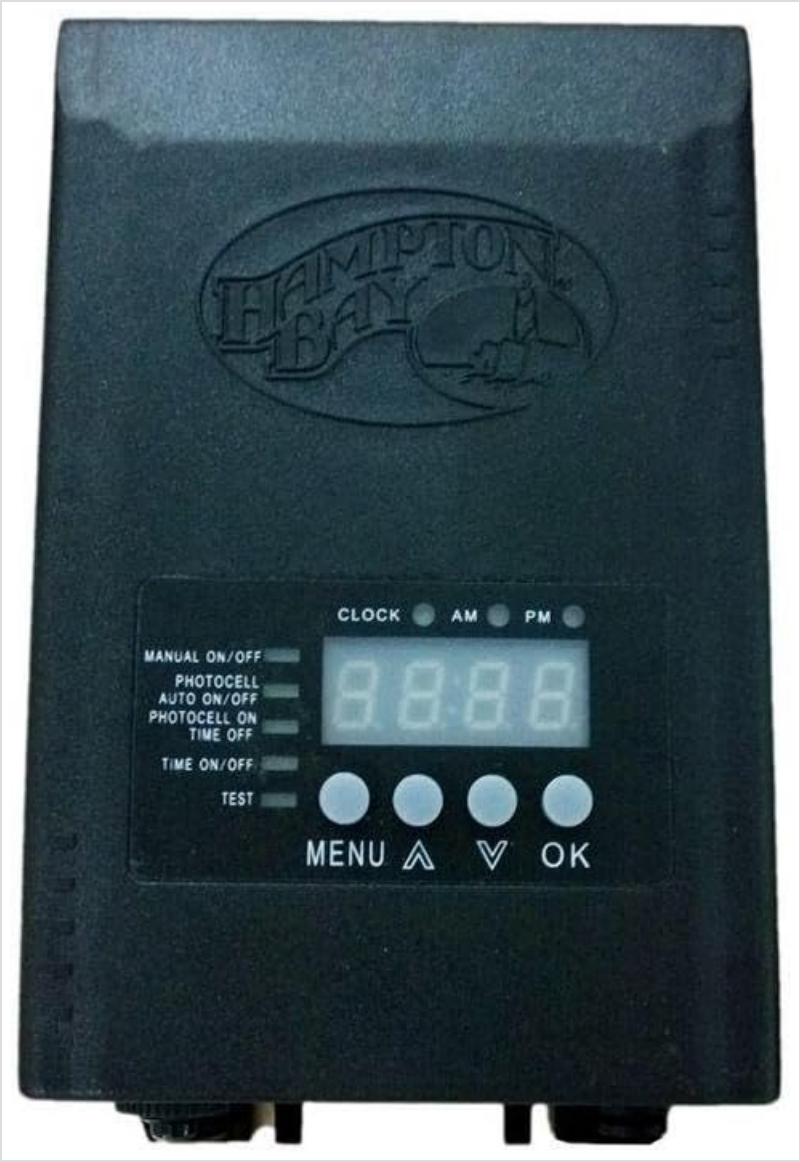


Figure 5.1: The Hampton Bay Low-Voltage 45-Watt Landscape Transformer. This image shows the main unit, which is designed for wall mounting and houses the control panel and wiring terminals.

5.2 Connecting Low-Voltage Wiring

1. Route your low-voltage landscape lighting cables from your fixtures to the transformer.
2. Strip approximately 1/2 inch of insulation from the ends of the low-voltage cables.
3. Connect the cables to the appropriate output terminals (12-Volt or 15-Volt) on the transformer. The 15-Volt terminals are recommended for longer wire runs or when using 15-Volt LED fixtures to minimize voltage drop.
4. Ensure all connections are tight and secure.

5.3 Installing the Remote Photocell

1. Connect the remote photocell cable to the designated photocell input port on the transformer.
2. Mount the photocell in a location where it will receive natural daylight and is not obstructed by shadows or artificial light sources (e.g., porch lights) that could interfere with its operation.
3. Ensure the photocell is facing upwards or towards the sky for optimal light detection.

6. Operation

6.1 Control Panel Overview

The transformer features an intuitive control panel with a digital display and four buttons: MENU, UP (▲), DOWN

(▼), and OK.

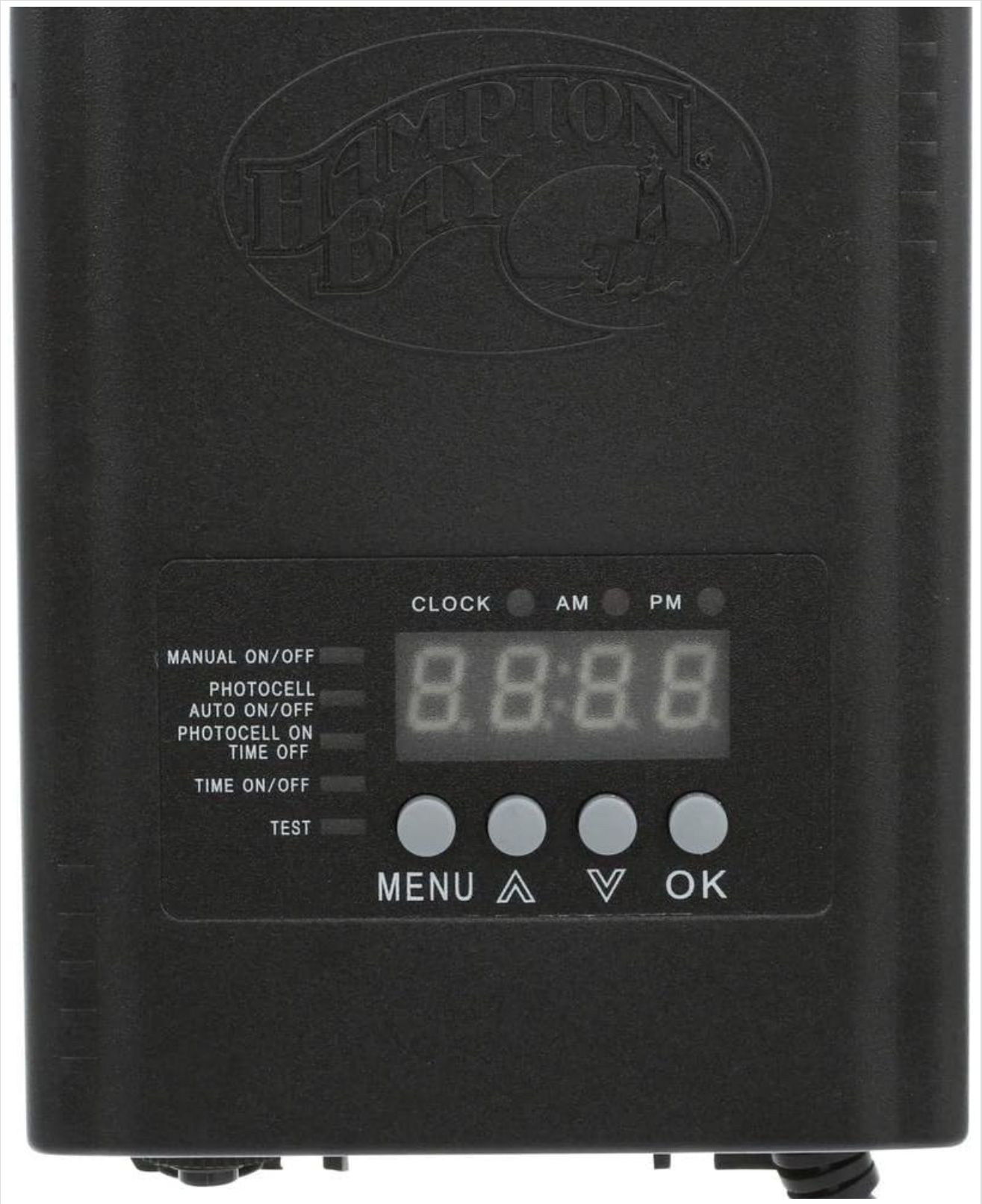


Figure 6.1: Detailed view of the Hampton Bay Low-Voltage Landscape Transformer's control panel. This image highlights the digital clock display, AM/PM indicators, and the MENU, UP, DOWN, and OK buttons used for setting and selecting operating modes.

6.2 Setting the Clock

1. Press the **MENU** button until the 'CLOCK' indicator is lit.
2. Use the **UP** (▲) and **DOWN** (▼) buttons to set the current hour. Press **OK** to confirm.
3. Use the **UP** (▲) and **DOWN** (▼) buttons to set the current minute. Press **OK** to confirm.
4. Ensure the AM/PM indicator is correct.

6.3 Operating Modes

Press the **MENU** button repeatedly to cycle through the available operating modes:

- **MANUAL ON/OFF:** Allows you to manually turn the lights on or off. Press **OK** to toggle.
- **PHOTOCELL AUTO ON/OFF (Dusk to Dawn):** The lights will automatically turn on at dusk and turn off at dawn, based on the remote photocell's detection.
- **PHOTOCELL ON / TIMER OFF:** Lights turn on at dusk via the photocell and turn off after a set duration (e.g., 4, 6, 8 hours). Use **UP** (▲) and **DOWN** (▼) to set the duration.
- **TIMER ON/OFF:** Lights turn on and off at specific times you program. Use **UP** (▲) and **DOWN** (▼) to set the ON time, then press **OK**. Repeat for the OFF time.

6.4 Test Function

The 'TEST' function allows you to quickly check if your connected lights are working. When in 'TEST' mode, the transformer will temporarily activate the lights for a short period, regardless of the current time or photocell status. Press **OK** to initiate the test.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your transformer.

- **Cleaning:** Periodically wipe the exterior of the transformer with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Annually inspect all low-voltage wire connections to ensure they are tight and free from corrosion.
- **Photocell:** Keep the photocell lens clean and free from dirt, debris, or obstructions that could affect its light sensing capabilities.
- **Ventilation:** Ensure the area around the transformer remains clear to allow for proper airflow and prevent overheating.

8. Troubleshooting

If you encounter issues with your transformer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights not turning on.	No power to transformer, faulty wiring, incorrect operating mode, tripped protection.	Check GFCI outlet and circuit breaker. Verify all low-voltage connections. Ensure correct operating mode is selected. Reset the transformer by unplugging and replugging.
Lights flickering or dim.	Voltage drop due to long wire runs or too many fixtures, loose connections.	Ensure connections are tight. Consider using the 15-Volt output terminals for longer runs. Reduce the number of fixtures or use thicker gauge wire.
Photocell not working correctly.	Photocell obstructed, exposed to artificial light, or faulty.	Clean the photocell lens. Relocate the photocell to an area free from obstructions and artificial light. Test the photocell function.
Timer not activating lights.	Incorrect clock setting, incorrect timer program.	Verify the current time and AM/PM setting. Re-program the timer settings carefully.

9. Specifications

Specification	Detail
Brand	Hampton Bay
Item Model Number	4330212614
ASIN	B01LXUQ799
UPC	841384100012
Power Source	AC Mains
Wattage	45-Watt
Output Voltage	12-Volt and 15-Volt (Dual Output)
Mounting Type	Wall Mount
Efficiency Rating	DOE VI
Product Depth	7.48 inches (19 cm)
Product Length	4.72 inches (12 cm)
Product Height	2.36 inches (6 cm)
Product Width	4.72 inches (12 cm)
Date First Available	June 23, 2016

10. Warranty and Support

For technical assistance, warranty inquiries, or to report any issues with your Hampton Bay Low-Voltage 45-Watt Landscape Transformer, please contact Hampton Bay customer support. Refer to your purchase documentation or the Hampton Bay official website for current contact information.

Ask a question about this manual

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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