

Orbit BHT-1

Orbit BHT-1 Electric Box 24-inch T-Bar Bracket

INSTRUCTION MANUAL

1. Introduction

This manual provides essential instructions for the proper installation and use of the Orbit BHT-1 Electric Box 24-inch T-Bar Bracket. This bracket is designed to securely mount electrical boxes to standard T-bar ceiling grids.

The Orbit BHT-1 is specifically engineered for use with electrical boxes that are 1-1/2 inches or 2-1/8 inches deep. Adherence to these instructions ensures safe and effective installation.

2. Safety Information

WARNING: Always disconnect power at the circuit breaker or fuse box before installing or servicing electrical components. Failure to do so may result in serious injury or death.

- Installation should be performed by a qualified electrician or a knowledgeable individual familiar with electrical wiring and building codes.
- Ensure all local and national electrical codes are followed during installation.
- The Orbit BHT-1 bracket conforms to UL514A and is acceptable for use in 2-hour fire-rated walls.
- Do not exceed the maximum load capacity of the T-bar ceiling grid or the bracket.

3. Product Overview

The Orbit BHT-1 is a 24-inch T-Bar bracket designed for robust support of electrical boxes in suspended ceiling applications. It features a durable construction suitable for various electrical installations.

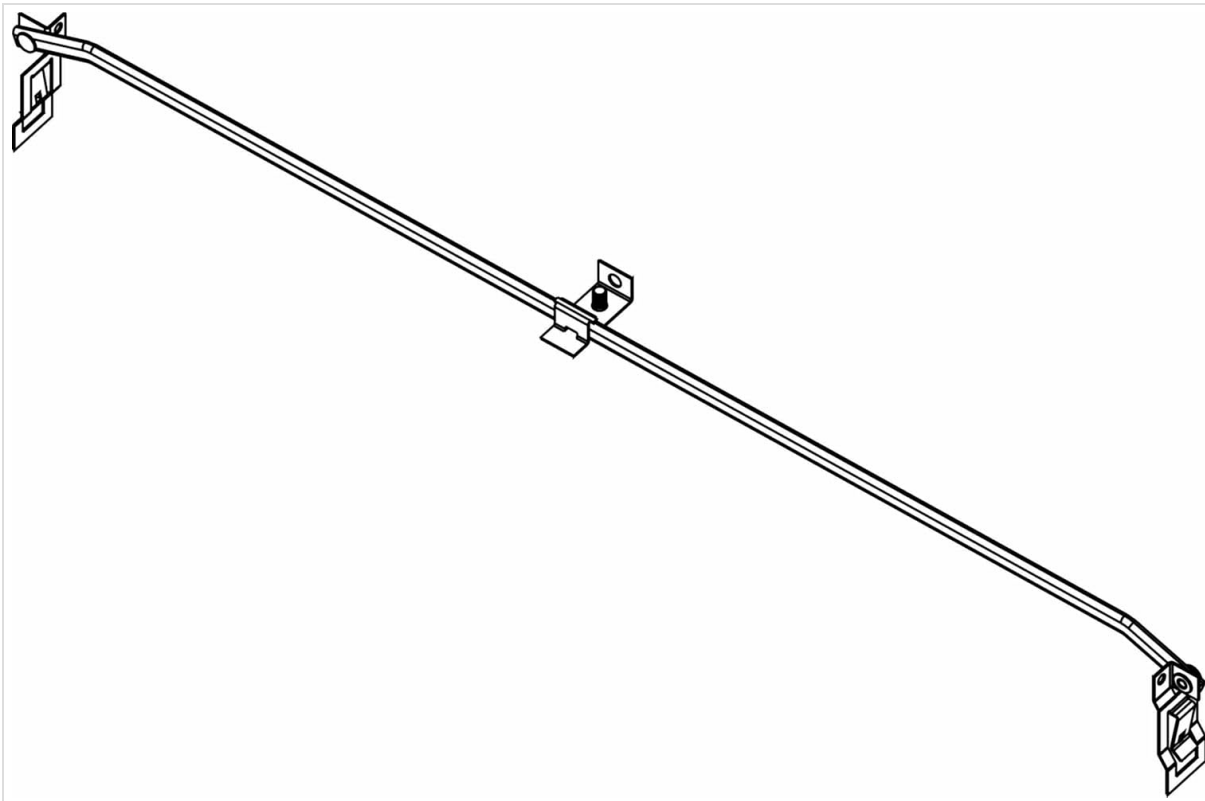


Figure 1: Orbit BHT-1 24-inch T-Bar Bracket. This image displays a line drawing of the Orbit BHT-1 24-inch T-Bar bracket. It shows a long, slender bar with mounting clips at each end and a central mounting point, designed for securing electrical boxes to a T-bar ceiling grid.

Key Features:

- 24-inch length for standard T-bar spacing.
- Compatible with 1-1/2" or 2-1/8" deep electrical boxes.
- UL file E227970, conforms to UL514A.
- Acceptable for use in 2-hour fire-rated walls.

4. Specifications

Attribute	Value
Brand	Orbit
Model Number	BHT-1
Product Dimensions	1.5"D x 24"W x 24"H
Material	Copper
Finish Type	Unfinished or Zinc Plated
Installation Type	Ceiling-mounted
Item Weight	2.88 ounces
Specification Met	UL E227970, UL514A
UPC	835243001305

5. Setup and Installation

Follow these steps to properly install the Orbit BHT-1 T-Bar bracket:

1. **Prepare the Area:** Ensure the power to the installation area is turned off at the main circuit breaker. Clear any obstructions in the ceiling grid where the electrical box will be mounted.
2. **Identify T-Bar Location:** Locate the T-bar members in the suspended ceiling grid where the electrical box needs to be positioned. The bracket is designed for standard 24-inch spacing.
3. **Attach to T-Bar:** Position the Orbit BHT-1 bracket across the T-bar members. The clips at each end of the bracket are designed to securely grip the T-bar. Ensure the bracket is centered and level.
4. **Mount Electrical Box:** Attach the electrical box (1-1/2" or 2-1/8" deep) to the central mounting point of the BHT-1 bracket. Use appropriate screws or fasteners to secure the box firmly to the bracket. Ensure the box is oriented correctly for wiring access.
5. **Verify Security:** After installation, gently tug on the electrical box and bracket to ensure they are securely fastened to the T-bar grid and that there is no excessive movement.
6. **Restore Power:** Once the electrical box is securely mounted and all wiring is complete and inspected, restore power to the circuit.

Note: This bracket is suitable for installations in 2-hour fire-rated walls, provided all other components and installation methods comply with relevant fire safety codes.

6. Functionality and Usage

The Orbit BHT-1 T-Bar bracket serves as a stable and compliant support for electrical boxes in suspended ceiling environments. Once installed, its primary function is to hold the electrical box securely in place, allowing for safe and organized electrical wiring within the ceiling plenum.

Proper installation ensures the electrical box remains stationary, preventing movement that could damage wiring or compromise the integrity of the electrical system. The bracket's design facilitates easy integration into existing T-bar ceiling structures.

7. Maintenance

The Orbit BHT-1 T-Bar bracket requires minimal maintenance. Periodic inspection is recommended to ensure continued structural integrity and secure attachment.

- **Visual Inspection:** Annually, or as part of routine building maintenance, visually inspect the bracket and its connection to the T-bar and electrical box for any signs of corrosion, damage, or loosening.
- **Tightness Check:** If accessible and safe to do so, verify that the electrical box remains tightly secured to the bracket.
- **Cleaning:** If necessary, gently wipe the bracket with a dry cloth to remove dust or debris. Do not use harsh chemicals.

If any damage or instability is observed, consult a qualified professional for assessment and repair or replacement.

8. Troubleshooting

This section addresses common issues that may arise during or after the installation of the Orbit BHT-1 T-Bar bracket.

• **Issue: Bracket does not fit T-bar securely.**

Solution: Ensure the T-bar is a standard size compatible with the bracket's clips. Verify that the bracket is correctly aligned and fully engaged with the T-bar flanges. If the T-bar is non-standard or damaged, it may require modification or replacement by a qualified professional.

• **Issue: Electrical box feels loose after installation.**

Solution: Check that the screws or fasteners used to attach the electrical box to the bracket are appropriate for the box material and are tightened securely. Ensure the electrical box depth (1-1/2" or 2-1/8") matches the bracket's compatibility. Re-tighten all connections, ensuring not to overtighten and strip threads.

• **Issue: Bracket appears corroded or damaged.**

Solution: If the bracket shows significant signs of corrosion or physical damage, it should be replaced immediately to maintain structural integrity and safety. Do not attempt to repair a damaged bracket.




For issues not covered here, or if you are unsure about any aspect of installation or safety, contact a qualified electrician or the manufacturer for assistance.




9. Warranty and Support

Specific warranty information for the Orbit BHT-1 Electric Box 24-inch T-Bar Bracket should be obtained directly from the manufacturer, Orbit. Please refer to the product packaging or the official Orbit website for detailed warranty terms and conditions.

For technical support, product inquiries, or to report any issues, please visit the official Orbit website or contact their customer service department. You can find more information about Orbit products at their [Amazon Store](#).

Related Documents - BHT-1

	<p>Orbit Weather Resistant Timer Box Installation Instructions</p> <p>Comprehensive installation guide for the Orbit Weather Resistant Timer Box, providing step-by-step instructions in English, French, and Spanish for mounting and wiring the timer box.</p>
	<p>Orbit 1 Dial 1 Outlet Hose Faucet Timer User Guide</p> <p>User manual for the Orbit 1 Dial 1 Outlet Hose Faucet Timer, detailing programming, features like Rain Delay and Manual Watering, and troubleshooting.</p>
	<p>Orbit Glasses FMN User Manual - Bluetooth Tracker</p> <p>User manual for the Orbit Glasses FMN, a small Bluetooth tracker that attaches to glasses and works with Apple Find My. Learn about its features, specifications, and FCC compliance.</p>

	<p>Orbit 1 Outlet Simple Watering Timer: User Guide and Programming Instructions</p> <p>A comprehensive guide to programming and using the Orbit 1 Outlet Simple Watering Timer, including features, installation, troubleshooting, and important warnings.</p>
	<p>Orbit 27752-24 Automatic Watering System Owner's Manual</p> <p>This manual provides instructions for the Orbit 27752-24 Automatic Watering System, covering installation, programming, manual watering, and troubleshooting.</p>
	<p>Orbit 1 Outlet Hose Faucet Timer: Quick Start and Programming Guide</p> <p>User guide for the Orbit 1 Outlet Hose Faucet Timer. Learn how to install batteries, program watering schedules, use features like Rain Delay and Manual Watering, and troubleshoot common issues.</p>