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› [Orbit](#) /

› [Orbit MT-400 Threaded Conduit Body User Manual](#)

Orbit MT-400

Orbit MT-400 Threaded Conduit Body User Manual

Model: MT-400 | Brand: Orbit

1. INTRODUCTION

This manual provides essential information for the proper installation, use, and maintenance of the Orbit MT-400 Threaded Conduit Body. The MT-400 is a T-shaped conduit body made from malleable iron, designed for use in electrical conduit systems to facilitate changes in direction, provide access for wire pulling, and allow for splices and taps. It is crucial to read and understand all instructions before beginning any work with this product to ensure safety and compliance with local electrical codes.

2. SAFETY INFORMATION

WARNING: Electrical work can be hazardous. Always follow proper safety procedures and consult with a qualified electrician if you are unsure about any aspect of the installation.

- Always disconnect power at the circuit breaker or fuse box before installing or servicing electrical components.
- Ensure all installations comply with the National Electrical Code (NEC) and all local building and electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not use this product for purposes other than its intended use in electrical conduit systems.
- Inspect the conduit body for any damage before installation. Do not install damaged components.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- 1 x Orbit MT-400 Threaded Conduit Body, Malleable Iron, T, 4-inch
- 1 x Cover (if included with specific model variant)
- 1 x Gasket (if included with specific model variant)

Note: Covers and gaskets may be sold separately depending on the specific product variant or regional packaging.

4. SETUP AND INSTALLATION

The MT-400 conduit body is designed for easy integration into threaded rigid or IMC conduit systems. Follow these steps for proper installation:

- 1. Preparation:** Ensure the ends of the conduits to be connected are clean, free of burrs, and properly threaded.
- 2. Thread Engagement:** Thread the conduit ends into the openings of the conduit body. Ensure full thread engagement for a secure and watertight connection.
- 3. Tightening:** Use appropriate tools (e.g., pipe wrenches) to tighten the conduit into the body. Do not overtighten, as this can damage the threads or the conduit body. Ensure the conduit body is oriented correctly for the desired wire path.
- 4. Wire Pulling:** Once installed, the conduit body provides an accessible opening for pulling electrical wires through the conduit system. Ensure wires are pulled smoothly to avoid damage.
- 5. Cover Installation:** After wires are pulled and connections are made (if applicable), install the appropriate cover and gasket (if used) onto the conduit body opening. Secure the cover screws firmly to maintain the integrity of the enclosure.



Figure 1: The Orbit MT-400 Threaded Conduit Body, showing its T-shape and threaded openings for conduit connection. This component facilitates changes in conduit direction and provides access for electrical wiring.

5. OPERATING PRINCIPLES

The Orbit MT-400 Threaded Conduit Body is a passive component within an electrical conduit system. Its primary function is to:

- Change Direction:** Allow for a 90-degree turn in the conduit run, with an additional opening for a branch or access.
- Wire Pulling Access:** Provide an accessible opening to assist in pulling wires through long or complex conduit runs, reducing friction and potential wire damage.
- Splices and Taps:** Offer an enclosure for making electrical splices or taps within the conduit system, ensuring connections are protected and accessible.

Once installed and sealed, the conduit body requires no active operation. Its effectiveness relies on proper installation and selection for the specific electrical application.

6. MAINTENANCE

The Orbit MT-400 Threaded Conduit Body is designed for long-term, maintenance-free operation under normal conditions. However, periodic inspection is recommended:

- Visual Inspection:** Periodically inspect the conduit body and its connections for any signs of corrosion, physical damage, or loose connections.

- **Cover Integrity:** Ensure the cover (if applicable) remains securely fastened and the gasket (if present) is intact to maintain environmental protection.
- **Environmental Factors:** In harsh environments (e.g., high humidity, corrosive atmospheres), more frequent inspections may be necessary.

If any damage or degradation is observed, disconnect power to the affected circuit and replace the component as necessary.

7. TROUBLESHOOTING

As a passive component, the MT-400 conduit body typically does not "malfunction." Issues are usually related to improper installation or external factors.

Problem	Possible Cause	Solution
Difficulty threading conduit	Damaged conduit threads; burrs on conduit; incorrect conduit size.	Inspect conduit threads; re-thread or replace conduit; ensure correct 4-inch conduit is used.
Loose connection after tightening	Insufficient thread engagement; damaged conduit body threads; overtightening.	Ensure full thread engagement; replace conduit body if threads are stripped; avoid overtightening.
Water/debris ingress	Improperly installed cover/gasket; damaged gasket; missing cover.	Ensure cover is securely fastened; replace damaged gasket; install appropriate cover.

If problems persist or you are unsure about a solution, consult a qualified electrician.

8. SPECIFICATIONS

Attribute	Detail
Model Number	MT-400
Type	Threaded Conduit Body, T-shape
Material	Malleable Iron
Conduit Size	4 inches
Manufacturer	Orbit Industries
ASIN	B06Y25R1RN
Date First Available	March 20, 2017

9. WARRANTY INFORMATION

Specific warranty details for the Orbit MT-400 Threaded Conduit Body are typically provided by the manufacturer or the point of purchase. Please refer to the documentation included with your purchase or visit the official Orbit Industries website for the most current warranty policy.

Generally, products are warranted against defects in materials and workmanship for a specified period from the date of purchase. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support regarding the Orbit MT-400 Threaded Conduit Body, please contact Orbit Industries directly or the authorized distributor from whom you purchased the product.

You may find contact information on the manufacturer's official website:www.orbitindustries.com

When contacting support, please have your product model number (MT-400) and date of purchase readily available.

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