

Crouse-Hinds T-29

CROUSE HINDS T29 Conduit Body User Manual

Model: T-29

INTRODUCTION

This manual provides essential information for the proper installation, use, and maintenance of the Crouse-Hinds T29 3/4 inch Threaded Rigid Conduit Outlet Body. This Type T conduit body is designed to facilitate changes in direction and provide access to conductors for pulling, splicing, and maintenance in rigid conduit systems.

SAFETY INFORMATION

Always adhere to local electrical codes and regulations when installing electrical components. Installation should only be performed by qualified personnel. Disconnect power before installing or servicing this product. Failure to follow these instructions may result in electrical shock, fire, or serious injury.

- Ensure power is OFF before beginning installation.
- Use appropriate personal protective equipment (PPE).
- Verify compatibility with existing conduit and wiring.
- Do not overtighten connections, as this may damage threads.
- Keep the conduit body free from debris and moisture during installation.

PRODUCT OVERVIEW AND COMPONENTS

The Crouse-Hinds T29 conduit body is a durable fitting used in electrical conduit systems. It features a T-shaped configuration, allowing for a 90-degree branch from a straight conduit run, and provides access for wire pulling and splicing.



Figure 1: Front view of the Crouse-Hinds T29 conduit body, showing the main body, threaded openings, and the removable cover secured by two screws. This view highlights the T-shape design.



Figure 2: Top view of the Crouse-Hinds T29 conduit body, illustrating the three threaded openings for conduit connection and the flat top surface where the cover is attached.



Figure 3: Angled view of the Crouse-Hinds T29 conduit body, providing a clear look at the internal threading of the conduit entry points, essential for secure connections.

Key Components:

- **Body:** The main aluminum casting with three threaded hubs.
- **Cover:** A removable cover that provides access to the interior.
- **Screws:** Fasteners to secure the cover to the body.
- **Threaded Hubs:** Three 3/4 inch NPT threaded openings for connecting rigid conduit.

SETUP AND INSTALLATION

Follow these steps for proper installation of the Crouse-Hinds T29 conduit body:

1. **Preparation:** Ensure all necessary tools and materials are available, including the conduit body, rigid conduit, conduit threader (if needed), pipe wrenches, and appropriate wiring. Verify that the power supply to the area of installation is completely disconnected.
2. **Conduit Threading:** If not pre-threaded, thread the ends of the rigid conduit that will connect to the conduit body. Ensure threads are clean and free of burrs.
3. **Connection:** Screw the threaded ends of the rigid conduit into the appropriate hubs of the T29 conduit body. Tighten securely using pipe wrenches to ensure a rigid and electrically continuous connection. Do not overtighten.
4. **Wire Pulling:** Once the conduit body is securely installed in the conduit run, remove the cover by unscrewing the two retaining screws. Carefully pull the electrical conductors through the conduit system, utilizing the access provided by the conduit body.
5. **Splicing (if applicable):** If splices or taps are required within the conduit body, perform them according to electrical code, ensuring proper insulation and secure connections.
6. **Cover Replacement:** After all wiring and splicing are complete, carefully replace the cover onto the conduit body. Secure the cover firmly with the retaining screws. Ensure the cover gasket (if present) is properly seated to maintain environmental integrity.
7. **Final Check:** Visually inspect all connections for tightness and proper alignment. Restore power only after all

installation steps are complete and verified.

OPERATING PRINCIPLES

The Crouse-Hinds T29 conduit body is a passive component within an electrical conduit system. Its primary function is to provide a junction point for rigid conduit runs, allowing for changes in direction (specifically a T-junction) and providing accessible points for pulling wires, making splices, or performing maintenance without having to dismantle long sections of conduit. It does not consume power or have moving parts.

MAINTENANCE

The Crouse-Hinds T29 conduit body requires minimal maintenance due to its robust construction and passive role. However, periodic inspection is recommended to ensure continued performance and safety.

- **Visual Inspection:** Periodically inspect the conduit body for signs of physical damage, corrosion, or loose connections. Ensure the cover is securely fastened.
- **Environmental Integrity:** Check for any signs of moisture ingress, especially in outdoor or damp locations. Ensure the cover gasket (if applicable) is intact and providing a proper seal.
- **Cleaning:** If necessary, clean the exterior of the conduit body with a damp cloth. Avoid using abrasive cleaners or solvents that could damage the finish.
- **Tightness Check:** If accessible and safe to do so (with power disconnected), periodically check the tightness of the conduit connections to the body.

TROUBLESHOOTING

Most issues related to a conduit body stem from improper installation or external factors. Here are some common scenarios and their resolutions:

Problem	Possible Cause	Solution
Loose Conduit Connection	Insufficient tightening during installation; vibration.	Disconnect power. Re-tighten conduit connections using appropriate tools.
Water/Moisture Inside	Damaged or missing cover gasket; improper sealing of conduit.	Disconnect power. Inspect and replace cover gasket if damaged. Ensure conduit connections are properly sealed.
Difficulty Pulling Wires	Conduit bends too sharp; burrs inside conduit or body; too many wires.	Ensure conduit runs are smooth. Check for and remove any burrs. Reduce the number of wires if exceeding capacity. Use wire lubricant.
Corrosion on Exterior	Exposure to harsh environmental conditions.	Clean with a non-abrasive cleaner. Consider protective coatings or relocating if environment is excessively corrosive.

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

SPECIFICATIONS

Attribute	Detail
Model Number	T-29

Attribute	Detail
Conduit Size	3/4 inch NPT
Type	T-Style Conduit Outlet Body
Material	Copper-free aluminum
Product Dimensions	8 x 8 x 7 inches
Item Weight	5.6 ounces
Manufacturer	Cooper Crouse-Hinds
ASIN	B018WCVRG8
Date First Available	July 28, 2014

WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact Crouse-Hinds directly. For technical support or inquiries regarding the T29 conduit body, please visit the official Crouse-Hinds website or contact their customer service department.

Note: This manual is for informational purposes only and does not supersede local electrical codes or professional installation requirements.