

RACO 3003

RACO 3003 Rigid/IMC Set Screw Conduit Connector User Manual

Model: 3003 | **Brand:** RACO



RACO is a leading manufacturer of steel electrical boxes, covers, and commercial fittings.

1. INTRODUCTION

This manual provides essential information for the proper installation and use of the RACO 3003 Rigid/IMC Set Screw Conduit Connector. This connector is designed for joining rigid or intermediate metallic conduit (IMC) to an electrical box or enclosure. It ensures a secure mechanical connection and reliable electrical continuity.

The RACO 3003 connector is constructed from steel and is zinc-electroplated for enhanced corrosion protection. It is non-insulated and UL Listed, ensuring compliance with safety standards.



Image 1.1: A close-up view of the RACO 3003 Rigid/IMC Set Screw Conduit Connector, showing its metallic construction and the set screw mechanism.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation must be performed by a licensed electrician in compliance with all national and local electrical codes.

- Always disconnect power at the circuit breaker or fuse box before installing or servicing electrical components.
- Ensure all connections are tight and secure to maintain proper grounding and prevent electrical hazards.
- Do not use this product in applications exceeding its specified ratings.
- Inspect the connector for any damage before installation. Do not use damaged components.

3. PRODUCT OVERVIEW

The RACO 3003 connector is designed for durability and ease of installation. Key features include:

- **Steel Construction:** Provides robust mechanical protection for conductors.
- **Zinc-Electroplated Finish:** Offers superior resistance to corrosion.
- **Set Screw Mechanism:** Ensures a firm grip on the conduit.
- **Non-Insulated:** Suitable for applications where insulation is not required at the connection point.
- **UL Listed:** Meets stringent safety and performance standards.

4. INSTALLATION INSTRUCTIONS

Follow these steps for proper installation of the RACO 3003 Rigid/IMC Set Screw Conduit Connector:

1. **Prepare Conduit and Enclosure:** Ensure the conduit end is cut cleanly and free of burrs. The electrical box or enclosure should have a properly sized knockout for the 3/4-inch trade size connector.
2. **Insert Connector into Enclosure:** Insert the threaded end of the conduit connector through the knockout hole in the electrical box or enclosure.
3. **Secure with Locknut:** Thread a locknut onto the connector from inside the electrical box. Tighten the locknut securely using appropriate tools to ensure a rigid connection to the box.
4. **Insert Conduit:** Insert the rigid or IMC conduit into the unthreaded end of the connector until it bottoms out.
5. **Tighten Set Screw:** Use a screwdriver to firmly tighten the set screw on the side of the connector. Ensure the set screw makes solid contact with the conduit, providing a secure mechanical connection and electrical continuity. Do not overtighten, as this can damage the conduit or the connector.
6. **Verify Connection:** After tightening, gently pull on the conduit to confirm it is securely held by the connector.

Note: For optimal performance and safety, ensure all connections are made according to local electrical codes and manufacturer guidelines.

5. MAINTENANCE

The RACO 3003 conduit connector is designed for long-term durability and typically requires minimal maintenance once installed correctly. Periodically inspect the installation for:

- **Corrosion:** While zinc-electroplated, extreme conditions may lead to corrosion. Address any signs of corrosion promptly.
- **Loose Connections:** Vibrations or environmental factors can sometimes loosen connections. Ensure set screws and locknuts remain tight.
- **Physical Damage:** Check for any physical damage to the connector or conduit that could compromise its integrity.

Any maintenance or repairs should be performed by qualified personnel with the power disconnected.

6. TROUBLESHOOTING

Most issues related to conduit connectors stem from improper installation. Refer to the installation instructions in Section 4 if you encounter any of the following:

- **Conduit is Loose:** Re-tighten the set screw firmly. Ensure the conduit is fully inserted into the connector.
- **Connector is Loose in Box:** Re-tighten the locknut from inside the electrical box.
- **Poor Electrical Continuity:** Ensure both the set screw and locknut are tightly secured to establish proper grounding. Check for paint or coatings on the conduit or box that might impede electrical contact.

If problems persist, consult a licensed electrician.

7. SPECIFICATIONS

Attribute	Detail
Model Number	3003
Trade Size	3/4 Inch
Material	Steel (Alloy Steel)
Finish	Zinc-Electroplated
Insulation	Non-Insulated
Connector Type	Set Screw
Compatibility	Rigid Conduit, IMC Conduit
Certifications	UL Listed
Item Weight	Approximately 4.6 pounds (for 25-pack)

8. WARRANTY AND SUPPORT

For specific warranty information and customer support, please refer to the official RACO website or contact their customer service department. Keep your purchase receipt for warranty claims.

Manufacturer: Hubbell

Brand: RACO

Website: [Visit the RACO Store on Amazon](#)

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.

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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