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Orbit RN-50-300

Instruction Manual

Orbit RN-50-300 Rigid Nipple 1/2" X 3"

1. PRODUCT OVERVIEW

The Orbit RN-50-300 is a rigid nipple designed for use in electrical conduit systems. It provides a secure and durable connection between two threaded conduit components, ensuring proper grounding and protection of electrical wiring. This specific model features a 1/2-inch trade size and a 3-inch length, making it suitable for various standard installations.



Figure 1: Assortment of rigid nipples, similar to the Orbit RN-50-300. The product is a metallic, cylindrical pipe segment with external threads on both ends, used for connecting electrical conduits.

Key Features:

- **Model:** RN-50-300
- **Size:** 1/2 inch x 3 inches
- **Material:** Typically galvanized steel or other corrosion-resistant metal.
- **Application:** Electrical conduit systems, providing rigid connections.

- **Compliance:** Designed to meet industry standards for electrical fittings.

2. SAFETY INFORMATION

Always follow local electrical codes and safety regulations when installing electrical components. Failure to do so may result in electrical shock, fire, or property damage.

- Ensure power is disconnected before beginning any installation.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Use only tools designed for electrical work.
- Consult a qualified electrician if you are unsure about any part of the installation process.

3. INSTALLATION (SETUP)

The RN-50-300 rigid nipple is designed for straightforward installation in threaded conduit systems.

1. **Prepare Components:** Ensure both conduit sections or fittings you intend to connect have clean, properly threaded openings. Remove any burrs or debris.
2. **Apply Thread Sealant (Optional):** For applications requiring a watertight or airtight seal, apply a suitable thread sealant or PTFE tape to the threads of the rigid nipple.
3. **Thread Nipple:** Carefully thread one end of the RN-50-300 rigid nipple into the first conduit component. Hand-tighten initially to ensure proper alignment and prevent cross-threading.
4. **Connect Second Component:** Thread the second conduit component onto the other end of the rigid nipple.
5. **Tighten Connections:** Use a pipe wrench or appropriate tool to securely tighten both connections. Do not overtighten, as this can damage the threads or components. Ensure the connection is firm and stable.
6. **Verify Connection:** Visually inspect the connection to ensure the nipple is fully engaged and the conduit components are aligned correctly.

4. OPERATION

The Orbit RN-50-300 rigid nipple is a passive component and does not have operational controls. Its function is to provide a fixed, rigid connection within an electrical conduit system, facilitating the safe routing and protection of electrical conductors.

Once installed, ensure the conduit system remains intact and free from physical damage or excessive strain that could compromise the integrity of the connections.

5. MAINTENANCE

The RN-50-300 rigid nipple requires minimal maintenance once properly installed. Regular inspections of the conduit system are recommended to ensure long-term performance and safety.

- **Visual Inspection:** Periodically inspect the nipple and surrounding conduit for signs of corrosion, physical damage, or loosening.
- **Cleanliness:** Keep the area around the conduit connections clean and free of excessive dust, dirt, or moisture, which could contribute to corrosion.
- **Tightness Check:** If accessible and safe to do so (with power disconnected), occasionally check the tightness of the connections to ensure they have not vibrated loose over time.

- **Replacement:** If the nipple shows signs of significant corrosion, cracking, or other damage, it should be replaced immediately by a qualified professional.

6. TROUBLESHOOTING

As a passive component, troubleshooting for the rigid nipple primarily involves identifying issues related to its installation or integrity within the conduit system.

Problem	Possible Cause	Solution
Loose Connection	Insufficient tightening during installation; vibration over time.	Disconnect power, then re-tighten the nipple connections using appropriate tools.
Corrosion/Rust	Exposure to moisture or harsh environments; damaged protective coating.	Replace the nipple if corrosion is severe. Consider using corrosion-resistant fittings or protective coatings in corrosive environments.
Damaged Threads	Cross-threading during installation; overtightening; physical impact.	The nipple must be replaced. Ensure proper alignment and avoid overtightening during new installation.
Water Ingress	Improperly sealed connections; lack of thread sealant in wet locations.	Disconnect power, disassemble, apply appropriate thread sealant (e.g., PTFE tape or pipe dope), and reassemble. Ensure proper drainage if applicable.

Note: Always ensure power is disconnected before attempting any troubleshooting or maintenance on electrical conduit systems.

7. SPECIFICATIONS

Attribute	Detail
Model Number	RN-50-300
Brand	Orbit
Connector Type	Nipple
Thread Size	0.5 inch (1/2")
Length	3 inches
Material	Galvanized Steel (Typical for rigid nipples)
Application	Electrical Conduit Systems

8. WARRANTY AND SUPPORT

For specific warranty information and technical support regarding the Orbit RN-50-300 Rigid Nipple, please refer to the official Orbit Industries website or contact their customer service directly.

Orbit Industries Contact Information:

- **Website:** www.orbitindustries.com (Note: This is a placeholder URL as specific support links were not provided)






- **Customer Service:** Please check the official website for the most current contact details, including phone numbers and email addresses.

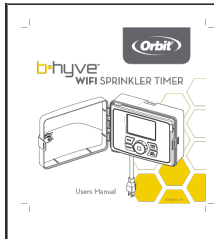
Always retain your purchase receipt for warranty claims.



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Related Documents - RN-50-300

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User manual for the Orbit B-hyve WiFi Sprinkler Timer, detailing installation, setup, features, and operation.