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Dorman 90908

Dorman 90908 Uninsulated Ring Spade Terminal Instruction Manual

Model: 90908 | Wire Gauge: 14-16GA | Ring Size: 5/16 In.

INTRODUCTION

This manual provides detailed instructions for the proper use and installation of the Dorman 90908 Uninsulated Ring Spade Terminal. This component is designed for creating secure electrical connections in automotive and other low-voltage applications, accommodating 14-16 gauge wires with a 5/16 inch stud connection.



Figure 1: Dorman 90908 Uninsulated Ring Spade Terminal and accompanying black heat shrink tubing. The terminal is silver-colored with a blue band.

SAFETY INFORMATION

Always observe the following safety precautions when working with electrical components:

- Disconnect power before installing or servicing electrical connections.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the wire gauge matches the terminal's specifications (14-16GA).
- Use proper crimping tools to ensure a secure and reliable connection.
- Avoid over-tightening connections, which can damage the terminal or stud.

SETUP AND INSTALLATION

Follow these steps for proper installation of the Dorman 90908 ring spade terminal:

1. **Prepare the Wire:**

Carefully strip approximately 1/4 to 3/8 inch (6-10 mm) of insulation from the end of the 14-16 gauge wire. Ensure the wire strands are not damaged during stripping.

2. Insert Wire into Terminal:

Insert the stripped end of the wire fully into the barrel of the ring spade terminal. Ensure no stray wire strands are outside the terminal barrel.



Figure 2: A close-up view of the Dorman 90908 terminal, showing the barrel where the wire is inserted and the ring for connection.

3. Crimp the Terminal:

Using a suitable crimping tool for uninsulated terminals, crimp the barrel of the terminal securely onto the wire. A proper crimp should be tight and hold the wire firmly without damaging the terminal or wire strands.

4. **Apply Heat Shrink (Optional):**

If using the included heat shrink tubing for added insulation and strain relief, slide it over the crimped connection. Apply heat evenly with a heat gun until the tubing shrinks tightly around the terminal and wire insulation.



Figure 3: Side view of the Dorman 90908 terminal and heat shrink, illustrating how the components fit together.

5. **Connect to Stud:**

Place the ring of the terminal over a 5/16 inch stud or post. Secure it with a nut or other appropriate fastener, ensuring a snug but not overly tight connection.

OPERATING PRINCIPLES

The Dorman 90908 Uninsulated Ring Spade Terminal functions as a robust electrical connector. Once properly installed, it provides a low-resistance pathway for electrical current between the connected wire and the stud/post. Its uninsulated design allows for maximum conductivity and can be used in applications where external insulation is provided by other means or is not required.

MAINTENANCE

To ensure long-term reliability and performance of your electrical connections:

- **Periodic Inspection:** Regularly inspect all connections for signs of corrosion, looseness, or damage.
- **Cleanliness:** Keep the connection points clean and free from dirt, moisture, and corrosive substances.
- **Security:** Verify that the crimp on the wire and the connection to the stud remain secure. Re-tighten fasteners if necessary, but avoid over-tightening.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Poor electrical connection / Intermittent power	Loose crimp, incorrect wire gauge, corrosion, loose stud connection.	Re-crimp the terminal, ensure correct wire gauge (14-16GA), clean contact surfaces, tighten stud connection.
Terminal overheating	High resistance due to poor crimp or undersized wire for current load.	Verify wire gauge is appropriate for the circuit's current, ensure a solid crimp, replace if damaged.
Terminal corrosion	Exposure to moisture or corrosive agents.	Clean with a wire brush and electrical contact cleaner. Consider using dielectric grease or a protective coating for future prevention. Replace if severely corroded.

SPECIFICATIONS

- Model:** Dorman 90908
- Type:** Uninsulated Ring Spade Terminal
- Wire Gauge Compatibility:** 14-16 AWG (American Wire Gauge)
- Ring/Stud Size:** 5/16 Inch
- Material:** Metal alloy (typically tin-plated copper or brass for conductivity and corrosion resistance)
- Included:** Ring spade terminal, heat shrink tubing

WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Dorman 90908 Uninsulated Ring Spade Terminal, please refer to the official Dorman website or contact Dorman customer service directly. Contact details can typically be found on the product packaging or the manufacturer's official website.

Dorman Products: www.dormanproducts.com

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