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Grote 45812

Grote 45812 2 1/2" Round Clearance Marker Light (Optic Lens)

USER MANUAL

1. PRODUCT OVERVIEW

The Grote 45812 is a durable 2 1/2-inch round clearance marker light featuring an optic lens. Designed for vehicle applications, this light serves as a crucial safety component, enhancing visibility. It is built with high-quality polycarbonate and acrylic materials to ensure longevity and compliance with FMVSS standards.

1.1 What's in the Box

- One (1) Grote 45812 2 1/2" Round Clearance Marker Light (Optic Lens)

1.2 Product Images

Front view of the Grote 45812 2 1/2 inch Round Clearance Marker Light, showcasing its red optic lens and compact design.

Rear view of the Grote 45812 2 1/2 inch Round Clearance Marker Light, detailing the electrical contacts for power connection and manufacturing information.

2. Technical Specifications

Model Number	45812
Material	Polycarbonate, Acrylic
Lens Finish	Red / Yellow (Optic Lens)
FMVSS Compliance	Optic - P2, P3, PC, PC2; Reflex - A, P2, P3
Bulb Type (12V)	2 CP, 12V / 0.33A
Bulb Type (24V)	3 CP, 24V / 0.17A
Dimensions	2.5" (L) x 2.5" (W) x 1.0" (H) (approximate)
Item Weight	0.01 ounces
Special Features	Waterproof

Compatible brackets and grommets include Grote models such as 43690, 91400, and various pigtail connectors like 67001. Refer to the product packaging or Grote's official documentation for a complete list of compatible accessories.

3. Setup and Installation

Proper installation is crucial for the optimal performance and safety of your Grote 45812 marker light. It is recommended that installation be performed by a qualified professional if you are unfamiliar with vehicle electrical systems.

3.1 Safety Precautions

- Always disconnect the vehicle's battery before beginning any electrical work to prevent short circuits or electrical shock.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Ensure the installation area is clean and free of debris.

3.2 Installation Steps

1. **Select Mounting Location:** Choose a flat, secure surface on the vehicle that complies with local regulations for marker light placement. Ensure there is sufficient space behind the mounting surface for wiring.
2. **Prepare Mounting Hole:** If using a grommet (e.g., Grote 91400), drill a hole of the appropriate diameter (typically 2.5 inches) in the chosen location. Ensure the hole is clean and free of burrs.
3. **Install Grommet (if applicable):** Insert the compatible rubber grommet into the drilled hole. Ensure it is seated firmly and evenly.
4. **Wire Connection:** Connect the light's pigtail (e.g., Grote 67001) to the vehicle's electrical system. The light typically has two terminals: one for power (positive) and one for ground (negative). Ensure correct polarity. Use appropriate crimp connectors or solder connections and insulate them with heat shrink tubing or electrical tape.
5. **Insert Light into Grommet/Bracket:** Carefully push the Grote 45812 light into the grommet or mount it using a compatible bracket (e.g., Grote 43690). Ensure it snaps securely into place and is flush with the mounting surface.
6. **Test Functionality:** Reconnect the vehicle's battery. Turn on the vehicle's lights to verify that the marker light illuminates correctly. Check for proper brightness and consistent operation.

4. Operating Instructions

The Grote 45812 Clearance Marker Light operates automatically with your vehicle's lighting system. Once properly installed and wired, it will illuminate when the vehicle's parking lights or headlights are activated.

- **Automatic Illumination:** The light is designed to turn on and off with the vehicle's main lighting controls.
- **Purpose:** Its primary function is to enhance the visibility of your vehicle, especially during low-light conditions, by clearly marking its dimensions to other road users.
- **Voltage Compatibility:** This light is compatible with both 12V and 24V vehicle electrical systems, depending on the bulb installed. Ensure the correct voltage bulb is used for your vehicle's system.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Grote 45812 marker light.

5.1 Cleaning

- Clean the lens periodically with a soft cloth and mild soap and water.
- Avoid abrasive cleaners or solvents, as these can damage the polycarbonate and acrylic materials.
- Rinse thoroughly with clean water and dry with a soft cloth to prevent water spots.

5.2 Inspection

- Regularly inspect the light for any signs of damage, such as cracks in the lens or housing.
- Check the wiring connections for corrosion or loose contacts. Ensure all connections are secure and insulated.
- Verify that the light is securely mounted and that the grommet or bracket is not deteriorated.

5.3 Bulb Replacement

If the light uses a replaceable bulb (as indicated by the technical specifications), follow these steps:

1. **Disconnect Power:** Always disconnect the vehicle's battery before attempting bulb replacement.
2. **Remove Light:** Carefully remove the light from its grommet or bracket.
3. **Access Bulb:** Depending on the design, the bulb may be accessible from the rear of the light by twisting or pulling the bulb holder.
4. **Replace Bulb:** Remove the old bulb and insert a new bulb of the correct type and voltage (e.g., 2 CP for 12V or 3 CP for 24V). Ensure the new bulb is clean and free of fingerprints.
5. **Reassemble and Test:** Reassemble the light, reinsert it into its mounting, and reconnect the battery. Test the light's functionality.

6. Troubleshooting

If your Grote 45812 marker light is not functioning as expected, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not illuminate	No power to the light Blown fuse Faulty bulb Poor ground connection Damaged wiring	Check vehicle's fuse box for a blown fuse related to lighting and replace if necessary. Verify power supply to the light using a multimeter. Inspect and replace the bulb if it is burnt out. Ensure the ground wire is securely connected to a clean, unpainted metal surface. Inspect wiring for cuts, pinches, or corrosion and repair as needed.
Light is dim or flickers	Low voltage Corroded connections Incorrect bulb type	Check vehicle's battery voltage and charging system. Clean all electrical connections (power and ground) to remove corrosion. Ensure the correct bulb type and voltage are installed for your vehicle's system.
Moisture inside lens	Improper seal Damaged housing	Ensure the light is fully seated in its grommet or bracket. Inspect the housing and lens for cracks or damage. If damaged, the light may need replacement.

7. Warranty and Support

Grote products are manufactured to high standards. For specific warranty information regarding the Grote 45812 Clearance Marker Light, please refer to the warranty documentation included with your purchase or visit the official Grote website. Warranty terms typically cover defects in materials and workmanship under normal use.

7.1 Customer Support

If you encounter issues not covered in this manual or require further assistance, please contact Grote customer support through their official website or the contact information provided on the product packaging. When contacting support, please have your product model number (45812) and purchase details ready.

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