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› Grote 55992 LED Stop Tail Turn Light User Manual

Grote 55992

Grote 55992 LED Stop Tail Turn Light User Manual

Model: 55992

1. INTRODUCTION

Thank you for choosing the Grote 55992 7-inch LED Stop Tail Turn Light. This high-quality, durable LED light is designed to provide superior visibility and safety for your vehicle. Engineered with advanced LED technology and a robust polycarbonate lens, it offers reliable performance as a stop, tail, and turn signal light. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your Grote light.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the light. Failure to follow these instructions may result in property damage, injury, or death.

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or short circuits.
- Ensure all wiring connections are secure and properly insulated to prevent corrosion and electrical hazards.
- Do not modify the light or its components. Any modifications may void the warranty and compromise safety.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- If you are unsure about any part of the installation process, consult a qualified automotive electrician.
- Dispose of packaging materials responsibly.

3. PRODUCT OVERVIEW

The Grote 55992 is a round, 7-inch LED light featuring a vibrant red polycarbonate lens. It is designed for universal fit applications on various vehicles, providing bright and efficient illumination for stop, tail, and turn signals. Its waterproof design ensures durability in diverse weather conditions.



Figure 3.1: Front View

This image displays the front of the Grote 55992 LED light, featuring its durable red polycarbonate lens and the arrangement of the light-emitting diodes (LEDs) designed for optimal visibility.

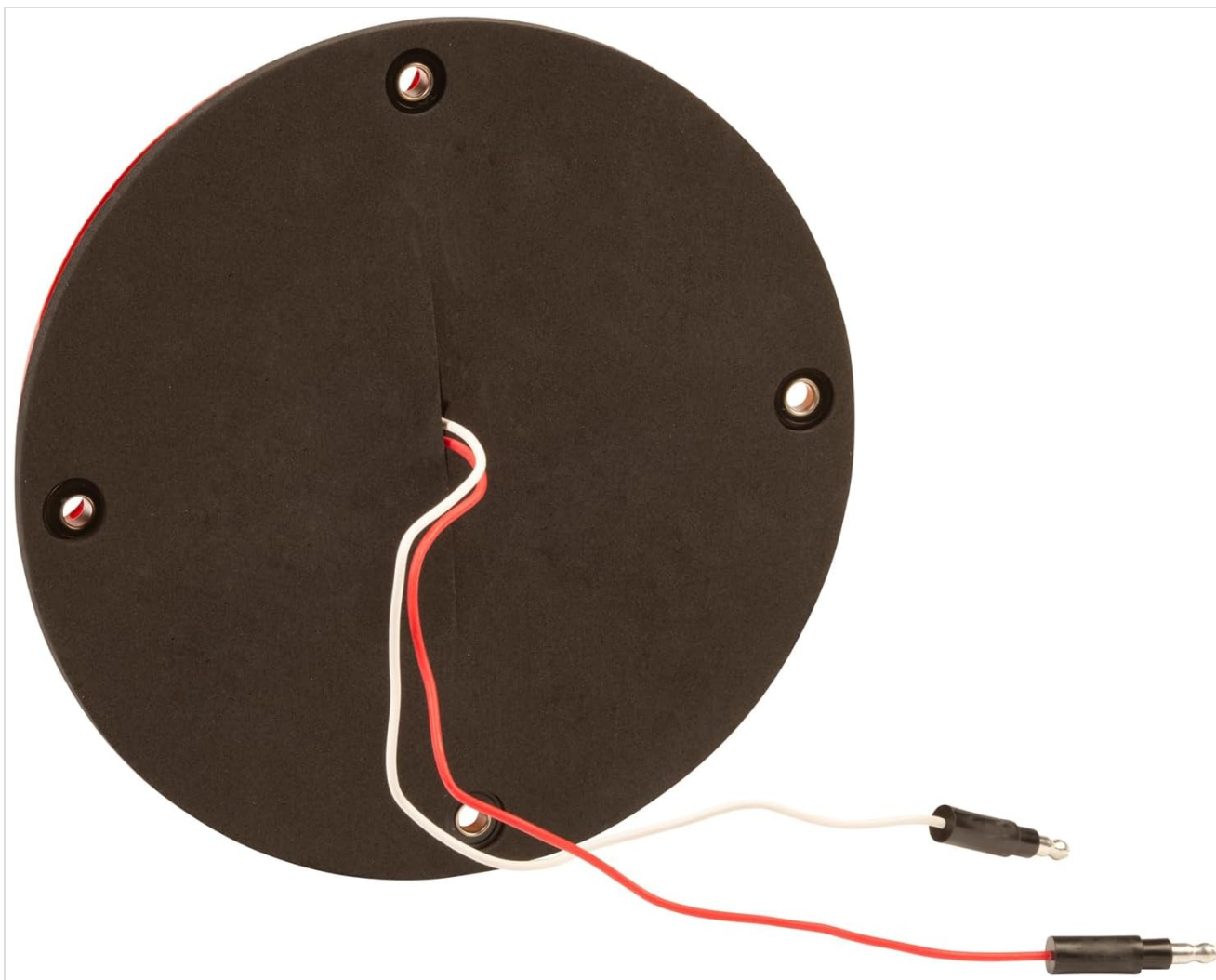


Figure 3.2: Rear View with Wiring

The rear view of the Grote 55992 LED light reveals its robust black housing and the integrated wiring for power and signal connections. The design ensures secure mounting and protection of internal components.

4. SETUP AND INSTALLATION

The Grote 55992 LED light is designed for straightforward installation. No assembly is required for the light unit itself.

4.1. Tools and Materials (Not Included)

- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Mounting hardware (screws, bolts, nuts - specific to your vehicle)
- Drill (if new mounting holes are required)
- Multimeter (for testing electrical connections)

4.2. Mounting

1. Choose a suitable mounting location on the rear of your vehicle, ensuring the light is visible and compliant with local regulations. The light has dimensions of approximately 7.25 x 7.25 x 1.5 inches.
2. Align the light and mark the positions for mounting holes.
3. Drill pilot holes if necessary, ensuring not to damage any existing wiring or components behind the mounting

surface.

4. Secure the light using appropriate mounting hardware. Ensure it is firmly attached to prevent vibration and detachment during vehicle operation.

4.3. Wiring

The Grote 55992 LED light typically uses a standard three-wire connection for stop, tail, and turn functions. The light is waterproof, ensuring reliable operation in wet conditions.

- **White Wire:** Connect to vehicle's chassis ground. Ensure a clean, secure connection to a metal surface for proper grounding.
- **Black Wire:** Connect to vehicle's tail light (running light) circuit. This provides continuous illumination when headlights are on.
- **Red Wire:** Connect to vehicle's stop light and turn signal circuit. This wire will activate the brighter stop and flashing turn signal functions.

Note: Wire colors may vary depending on your vehicle's manufacturer. Always verify the function of each wire using a multimeter or vehicle wiring diagram before making connections.

1. Strip approximately 0.5 inches of insulation from the ends of the light's wires and the corresponding vehicle wires.
2. Connect the wires according to the functions described above. Use crimp connectors or solder for secure and durable connections.
3. Insulate all connections with electrical tape or heat shrink tubing to protect against moisture and corrosion.
4. Once all connections are made, reconnect the vehicle's battery and test the light's functions (tail, stop, and turn signals) to ensure correct operation.

5. OPERATING INSTRUCTIONS

The Grote 55992 LED Stop Tail Turn Light operates automatically in conjunction with your vehicle's electrical system. Once properly installed and wired, it will function as follows:

- **Tail Light Function:** When your vehicle's headlights or parking lights are activated, the light will illuminate at a lower intensity, serving as a running light.
- **Stop Light Function:** When the brake pedal is pressed, the light will illuminate at a higher intensity, signaling deceleration or stopping.
- **Turn Signal Function:** When the turn signal lever is activated, the light will flash at a higher intensity, indicating a turn or lane change.

No user intervention is required for the light's operation beyond the standard use of your vehicle's controls.

6. MAINTENANCE

The Grote 55992 LED light is designed for minimal maintenance due to its durable LED construction. Unlike traditional incandescent bulbs, LEDs do not require replacement.

- **Cleaning:** Periodically clean the lens with a soft cloth, mild soap, and water. Avoid abrasive cleaners or solvents that could damage the polycarbonate lens.
- **Inspection:** Regularly inspect the light for any physical damage, such as cracks in the lens or housing. Check

wiring connections for corrosion or looseness. Ensure mounting hardware remains secure.

- **No Bulb Replacement:** As an LED unit, there are no bulbs to replace. If the light malfunctions, refer to the troubleshooting section or contact customer support.

7. TROUBLESHOOTING

If your Grote 55992 LED light is not functioning as expected, refer to the table below for common issues and solutions.

Problem	Possible Cause	Solution
Light does not illuminate	No power to the light; faulty ground connection; blown fuse in vehicle circuit; incorrect wiring.	Check vehicle's fuse box; verify power supply to the light's positive wire using a multimeter; ensure ground wire is securely connected to a clean metal surface; re-check all wiring connections.
Light is dim or flickers	Poor electrical connection; insufficient voltage; corrosion at terminals.	Inspect all wiring connections for looseness or corrosion and clean if necessary; ensure proper voltage (12V system) is supplied to the light.
Turn signal flashes too fast (hyper-flashing)	LED lights draw less current than incandescent bulbs, which can cause the vehicle's flasher relay to misinterpret the load.	Install an LED-compatible flasher relay or load resistors (sold separately) in parallel with the turn signal circuit.
Moisture inside the lens	Seal integrity compromised; extreme temperature changes causing condensation.	Ensure the light is properly sealed and mounted. If moisture persists, the seal may be damaged, and the unit may need replacement.

If the problem persists after attempting these solutions, please contact Grote customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Grote
Model Number	55992
Product Type	LED Stop Tail Turn Light
Color	Red
Lens Material	Polycarbonate
Dimensions (L x W x H)	7.25 x 7.25 x 1.5 inches
Item Weight	1 pound
Special Feature	Waterproof

Feature	Detail
Assembly Required	No (for the light unit)
Automotive Fit Type	Universal Fit
UPC	089373108667

9. WARRANTY INFORMATION

Grote products are manufactured to high standards and are backed by a manufacturer's warranty. For specific details regarding the warranty period and terms for your Grote 55992 LED Stop Tail Turn Light, please refer to the warranty documentation included with your purchase or visit the official Grote website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your Grote 55992 LED Stop Tail Turn Light, please contact Grote customer service. You can find contact information, including phone numbers and email addresses, on the official Grote website: www.grote.com.

Note: No official product videos from the seller were available for inclusion in this manual.

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