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› Abrams 7-inch Round White LED Bus Tail Light Instruction Manual, Model BTL-R47-W

Abrams BTL-R47-W

Abrams 7-inch Round White LED Bus Tail Light Instruction Manual

Model: BTL-R47-W

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Abrams 7-inch Round White LED Bus Tail Light, Model BTL-R47-W. Please read these instructions thoroughly before installation and use to ensure optimal performance and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Verify that the light is compatible with your vehicle's electrical system (12V).
- Mount the light securely to prevent detachment during vehicle operation.
- Adhere to all local and national regulations regarding vehicle lighting. This product is DOT Approved.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x Abrams 7-inch Round White LED Bus Tail Light (Model BTL-R47-W)
- 1 x 7-inch Round Foam Gasket
- 1 x 12-inch Wire Lead

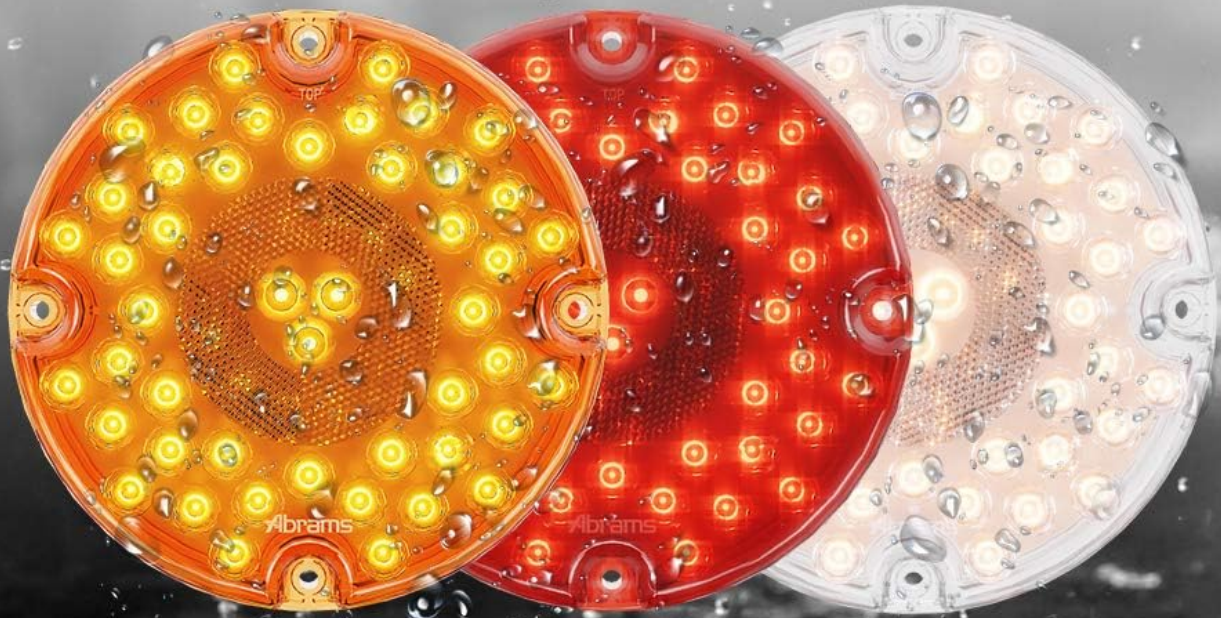
4. PRODUCT FEATURES

The Abrams 7-inch Round White LED Bus Tail Light is designed for durability and high visibility:

- **DOT Approved:** Meets Department of Transportation standards for vehicle lighting.
- **High Visibility:** Equipped with 47 super-bright LEDs for enhanced illumination.
- **Durable Construction:** IP67 waterproof, dustproof, shockproof, and submersible, suitable for various environmental conditions.
- **Integrated Reflex Lens:** Features a built-in reflex lens for added safety and visibility.
- **Energy Efficient:** Utilizes LED technology for low power consumption (2.4 watts, 0.25 Amps).
- **Material:** Polycarbonate lens for impact resistance.



Image 4.1: The Abrams 7-inch Round White LED Bus Tail Light highlighting its key features including SAE Class 1 certification, standard industry size, IP68-rated waterproof, dustproof & shockproof, energy-efficient LEDs, and built-in reflex lens.



IP68 RATED

Image 4.2: Abrams LED lights demonstrating their IP68 waterproof rating with water droplets on the lenses.



47

**BRIGHT
LED'S**
WITH COLORED LENS



Image 4.3: A close-up view of the Abrams LED lights, emphasizing the 47 bright LEDs and the availability of different colored lenses (white, red, amber).



Image 4.4: Abrams LED lights shown with a school bus, illustrating the built-in reflex feature for enhanced safety.

5. SETUP AND INSTALLATION

The Abrams 7-inch Round White LED Bus Tail Light is designed for straightforward installation. Follow these general steps:

1. **Prepare Mounting Location:** Select a flat, secure surface on your vehicle for mounting. Ensure there is sufficient space for the 7-inch round light.
2. **Drill Mounting Holes:** Use the provided dimensions as a guide to drill necessary mounting holes. Refer to Image 5.1 for precise measurements.
3. **Install Foam Gasket:** Place the 7-inch round foam gasket around the light's housing. This gasket helps create a seal against moisture and vibrations.
4. **Wiring Connections:** Connect the 12-inch wire lead to your vehicle's electrical system. Typically, one wire is for power (positive) and the other for ground (negative). Consult your vehicle's wiring diagram for specific connections for reverse

lights. Ensure connections are secure and insulated.

5. **Mount the Light:** Secure the light into the prepared opening, ensuring the gasket is properly seated. Fasten with appropriate hardware (not included, typically).
6. **Test Functionality:** Reconnect the vehicle's battery and test the light to ensure it functions correctly as a reverse light.

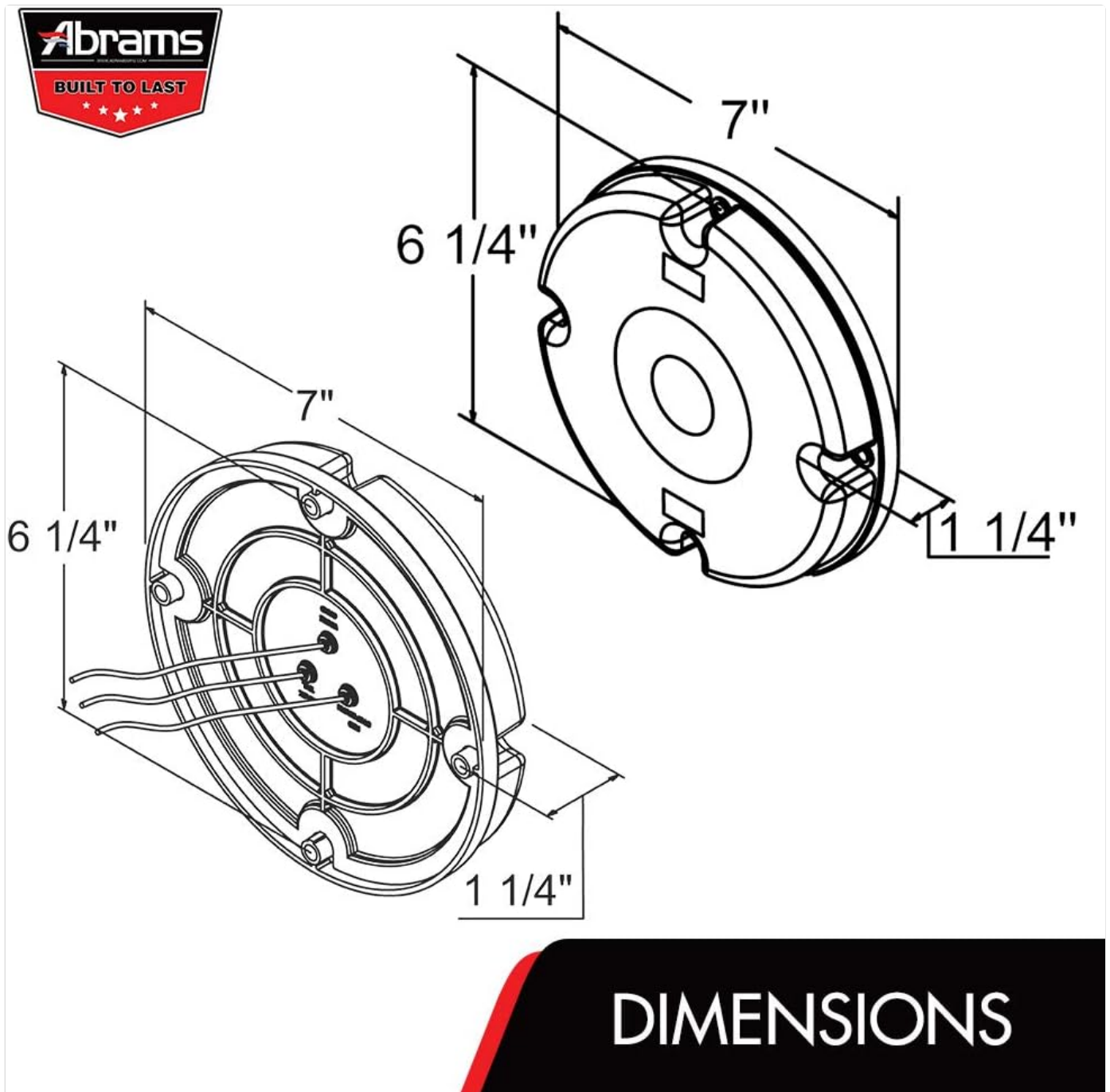


Image 5.1: Dimensional drawing of the 7-inch round LED light, indicating a 7-inch diameter and 1 1/4-inch depth for mounting reference.



Image 5.2: The Abrams 7-inch Round White LED Bus Tail Light, showing its clear lens and internal LED arrangement.



Image 5.3: An internal view of the Abrams 7-inch Round LED light, showcasing the circuit board and individual LED components.

6. OPERATING INSTRUCTIONS

This Abrams LED light functions as a reverse (backup) light. Once properly installed and wired to your vehicle's electrical system, it will activate when the vehicle is shifted into reverse gear.

The light is suitable for a wide range of 12V vehicles, including:

- Trucks
- Flatbeds
- Tractors
- Vans
- Buses (e.g., School Buses)
- ATVs and UTVs

- Pickup Trucks
- Jeeps
- Agricultural Machinery
- Boats



Image 6.1: A school bus equipped with Abrams LED tail lights, demonstrating their application in enhancing vehicle visibility.

7. MAINTENANCE

The Abrams LED light requires minimal maintenance due to its durable design.

- **Cleaning:** Periodically clean the lens with a soft cloth and mild soap and water to ensure maximum light output. Avoid abrasive cleaners that could scratch the polycarbonate lens.
- **Inspection:** Regularly inspect the light for any physical damage, loose wiring, or corrosion. Ensure the mounting remains secure.

- **Seal Integrity:** Check the foam gasket for any signs of wear or damage that could compromise its waterproof seal.

8. TROUBLESHOOTING

If you encounter issues with your Abrams LED light, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not illuminate	No power, faulty wiring, blown fuse, incorrect connection.	Check power supply to the light. Verify all wiring connections are secure and correct (positive to positive, negative to negative). Inspect vehicle's fuse box for a blown fuse.
Light is dim or flickers	Poor electrical connection, insufficient voltage, damaged wiring.	Ensure all connections are tight and free of corrosion. Verify vehicle's voltage output is stable (12V). Inspect wiring for any cuts or damage.
Moisture inside the lens	Compromised seal, improper installation of gasket.	Inspect the foam gasket and mounting area for gaps. Re-seat or replace the gasket if damaged. Ensure mounting screws are tightened appropriately.

If the problem persists after following these steps, contact Abrams customer support for further assistance.

9. SPECIFICATIONS

Specification	Detail
Brand	Abrams
Model Number	BTL-R47-W
Light Type	LED Tail Light (Reverse/Backup)
Light Color	White
Lens Color	Clear
Number of LEDs	47
Voltage	12V (compatible with 12V systems)
Wattage	2.4 watts
Amperage	0.25 Amps
Waterproof Rating	IP67 (Submersible)
Lens Material	Polycarbonate
Auto Part Position	Rear
Dimensions	7.28 x 7.24 x 2.32 inches (approximate package dimensions)

Specification	Detail
Item Weight	1.01 pounds

10. WARRANTY AND SUPPORT

Abrams stands behind the quality of its products. The Abrams 7-inch Round White LED Bus Tail Light (Model BTL-R47-W) is backed by a **2-Year Warranty**. For warranty claims, technical support, or any questions not covered in this manual, please refer to the Abrams official website or contact their customer service department directly. Keep your purchase receipt as proof of purchase for warranty purposes.

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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.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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