

Partsam 4332989291

Partsam 12V Submersible Square LED Trailer Light Instruction Manual

Model: 4332989291 | Brand: Partsam

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Partsam 12V Submersible Square LED Trailer Lights. These lights are designed for universal application on trailers under 80 inches wide, including boat trailers, utility trailers, trucks, semi-trailers, dump trucks, buses, campers, RVs, and snowmobiles. Featuring a completely sealed and waterproof design with an IP68 rating, these lights ensure maximum visibility and safety in various weather conditions.

2. PRODUCT FEATURES

- **Universal Application:** Suitable for trucks, trailers under 80 inches, tractors, semi-trailers, dump trucks, buses, boats, special vehicles, campers, RVs, and snowmobiles.
- **Passenger Side Light (Curb Side):** Features 15 Diodes (12 Red + 3 Red) LED combination stop, turn, tail, side marker light with reflector. Serves 6 functions: Stop light, Turn signal light, Tail light, Rear reflex reflector, Side marker light, Side reflex reflector.
- **Driver Side Light (Street Side):** Features 19 Diodes (12 Red + 3 Red + 4 White) LED combination stop, turn, tail, side marker light with reflector and license plate illuminator. Serves 7 functions: Stop light, Turn signal light, Tail light, Rear reflex reflector, Side marker light, Side reflex reflector, License plate illuminator.
- **Durability:** Completely sealed and waterproof (IP68 rated) with acrylic lenses engineered to block water and protect circuits.
- **High Visibility:** Super bright LED lights provide maximum visibility and safety.
- **DOT Compliant:** Meets Department of Transportation standards for safety.



Figure 2.1: Overview of Partsam 12V Submersible Square LED Trailer Lights, highlighting their DOT compliance and waterproof design.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- 2x Square Trailer Tail Lights (one passenger side, one driver side)
- 2x Gaskets
- 4x Screws

Note: Wire harness is NOT included.

4. SPECIFICATIONS

Attribute	Value
Brand	Partsam
Model Number	4332989291
Color	Red Lens
Light Source Type	LED
Voltage	12 volts
Wattage	12 watts
Special Feature	DOT Compliant, Submersible, IP68
Lens Material	Plastic
Item Weight	16 ounces
Unit Count	2 Count

5. INSTALLATION INSTRUCTIONS

5.1 Mounting

The lights are designed for easy mounting with two 2-inch mounting studs. Ensure the mounting surface is clean and secure. Use the provided gaskets and screws to firmly attach the lights to your trailer.

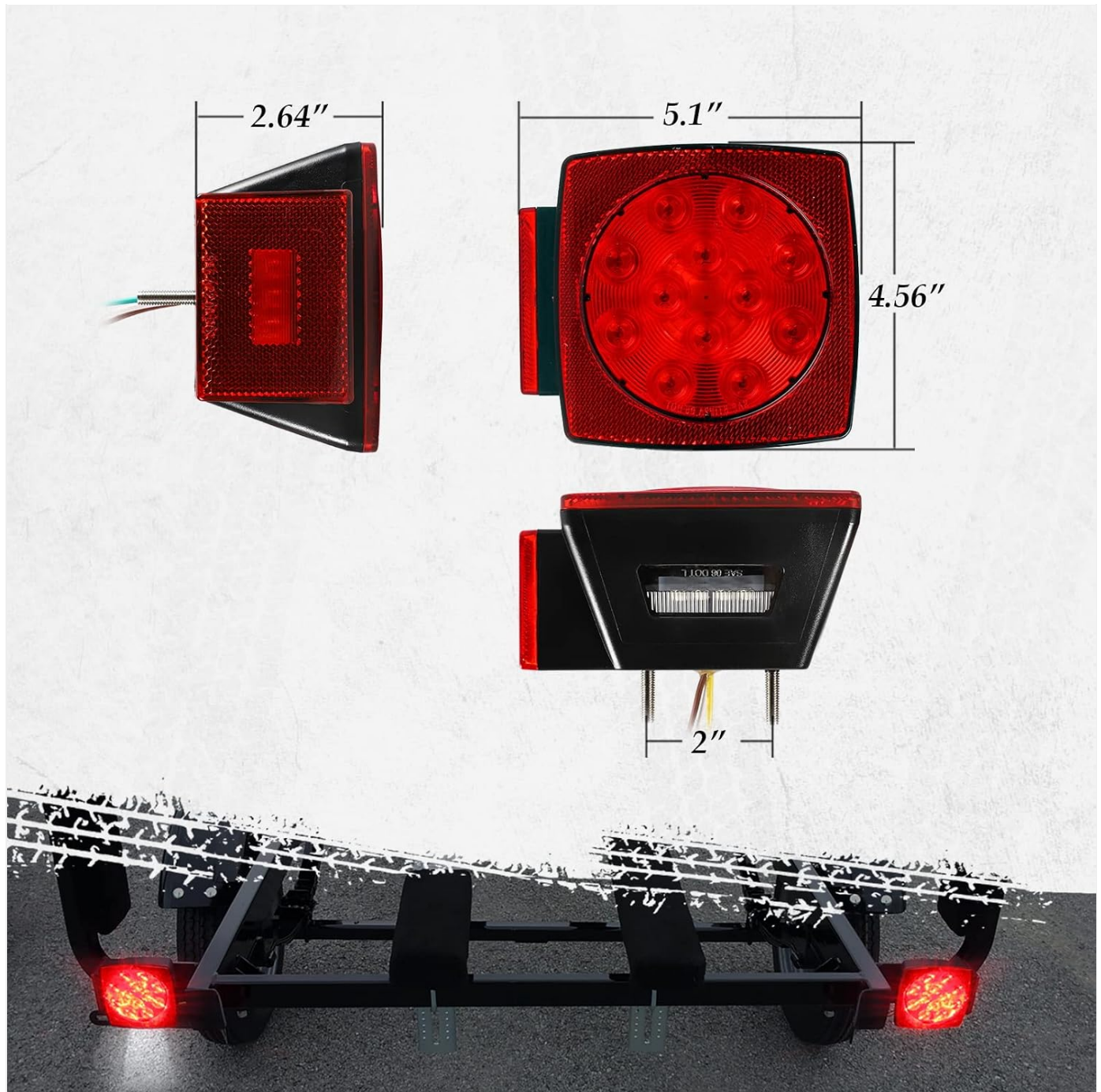


Figure 5.1: Dimensions of the trailer lights, showing the 2-inch mounting studs for installation.

5.2 Wiring Connection

Proper wiring is crucial for correct light function. The lights come with pre-wired pigtails. Connect them according to the following color code:

- **White Wire:** Ground
- **Left Side (Driver Side):**
 - White + Yellow: Front side works with high brightness (Turn Signal/Brake).
 - White + Brown: Three sides work, front side is low brightness (Running Light).
- **Right Side (Passenger Side):**
 - White + Green: Front side works with high brightness (Turn Signal/Brake).

- White + Brown: Two sides work, front side is low brightness (Running Light).

Ensure all connections are secure and insulated to prevent short circuits and corrosion. Test all light functions (running, brake, turn signals, license plate light) before operating your trailer.

Wire connection Tips:

Left side

White Wire - Ground

White+ Yellow, front side works with high brightness

White+ Brown, Three sides work, front side is low brightness

Right side

White Wire - Ground

White+Green, front side works with high brightness

White+Brown, Two sides work, front side is low brightness.



High brightness



Low brightness



Figure 5.2: Detailed wiring connection tips for both left and right trailer lights, illustrating high and low brightness modes.



Figure 5.3: Visual representation of the left (driver) and right (passenger) side trailer lights, showing the integrated license plate illuminator on the driver's side.

6. OPERATION

Once properly installed and wired, the Partsam LED trailer lights will operate in conjunction with your towing vehicle's electrical system. They provide the following functions:

- **Running Lights:** Illuminate when your vehicle's headlights are on, providing continuous rear and side visibility.
- **Brake Lights:** Activate with increased brightness when the brake pedal is pressed.
- **Turn Signal Lights:** Flash to indicate turns, with distinct left and right signals.
- **License Plate Illuminator:** The driver's side light includes a white LED to illuminate the license plate.
- **Reflectors:** Integrated reflectors provide passive visibility even when lights are off.

Square Stop Turn Tail Light

Universal for Under 80" Inch width towing vehicle, like truck, trailer, tractor, semi-trailer, Dump Truck, boat, bus, Lorry, Van, caravan, snowmobile, Camper, RV.etc



Figure 6.1: Examples of various vehicles and trailers compatible with the Partsam Square LED Trailer Lights.

7. MAINTENANCE

These LED trailer lights are designed for minimal maintenance due to their sealed, waterproof construction and durable materials.

- **Cleaning:** Periodically clean the lenses with mild soap and water to ensure maximum light output. Avoid abrasive cleaners that could scratch the acrylic.
- **Inspection:** Regularly inspect wiring connections for any signs of corrosion or damage. Ensure mounting hardware remains tight.
- **Waterproof Integrity:** The IP68 rating ensures protection against dust and prolonged immersion in water. No special sealing maintenance is required for the light unit itself.



Waterproof

Sealed & waterproof assemblies, exquisite looking and to withstand any sand, water, dirt, snow or dust.



Figure 7.1: The trailer light submerged in water, demonstrating its IP68 waterproof capability.

8. TROUBLESHOOTING

If your trailer lights are not functioning correctly, consider the following common issues:

Problem	Possible Cause	Solution
Lights not illuminating	No power from towing vehicle, faulty ground connection, damaged wiring, blown fuse in vehicle.	Check vehicle's trailer light fuse. Verify all wiring connections are secure and free of corrosion. Ensure a solid ground connection to the trailer frame.
One function not working (e.g., turn signal but no brake light)	Incorrect wiring connection for that specific function, damaged wire.	Review wiring diagram (Section 5.2) and ensure correct wire connections for each function. Inspect the specific wire for damage.

Problem	Possible Cause	Solution
Lights are dim or flickering	Poor ground connection, insufficient voltage, loose wiring.	Ensure a clean and secure ground connection. Check vehicle's electrical system for proper voltage output to the trailer connector. Tighten all wiring connections.
Water inside the light housing	Damage to the sealed housing or lens.	While the lights are IP68 rated, extreme impact can compromise the seal. If water ingress occurs, the light may need replacement.

9. WARRANTY AND SUPPORT

Partsam provides a **1-year warranty** for quality issues from the date of purchase. For warranty claims, technical support, or any questions regarding your product, please contact Partsam customer service through the retailer where the product was purchased or visit the official Partsam website for contact information.

ASK A QUESTION ABOUT THIS MANUAL

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

Anonymous

Email

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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