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Nilight TR-155

Nilight TR-155 LED Trailer Light Kit Instruction Manual

Model: TR-155

PRODUCT OVERVIEW

The Nilight TR-155 LED Trailer Light Kit provides comprehensive lighting solutions for various 12V DC vehicles, including trailers, boats, trucks, RVs, and more. This kit includes all necessary components for stop, turn, tail, side marker, and license plate lighting, ensuring compliance and safety on the road.



An overview of the complete Nilight TR-155 LED Trailer Light Kit, showing all included components.

PACKAGE CONTENTS

Verify that all components listed below are included in your package:

- 2 x Square LED Trailer Lights
- 1 x 16-inch Red LED Brake Light Bar
- 2 x Red Side Marker Lights
- 4 x Amber Side Marker Lights
- 1 x 25ft Trailer Wiring Harness
- 1 x License Plate Bracket
- 4 x Reflectors
- 1 x Hardware Pack (includes wire nuts, wire clips, self-tapping screws, ring connectors, splice connectors, screws)



Detailed view of all items included in the Nilight TR-155 LED Trailer Light Kit, such as square lights, light bar, side markers, wiring harness, and hardware.



Wire nut



Wire clip



Self-tapping screws



Ring connector



Splice connector



License plate bracket



Screws



Close-up of the various hardware components provided for installation, including connectors and fasteners.

INSTALLATION INSTRUCTIONS

Component Dimensions

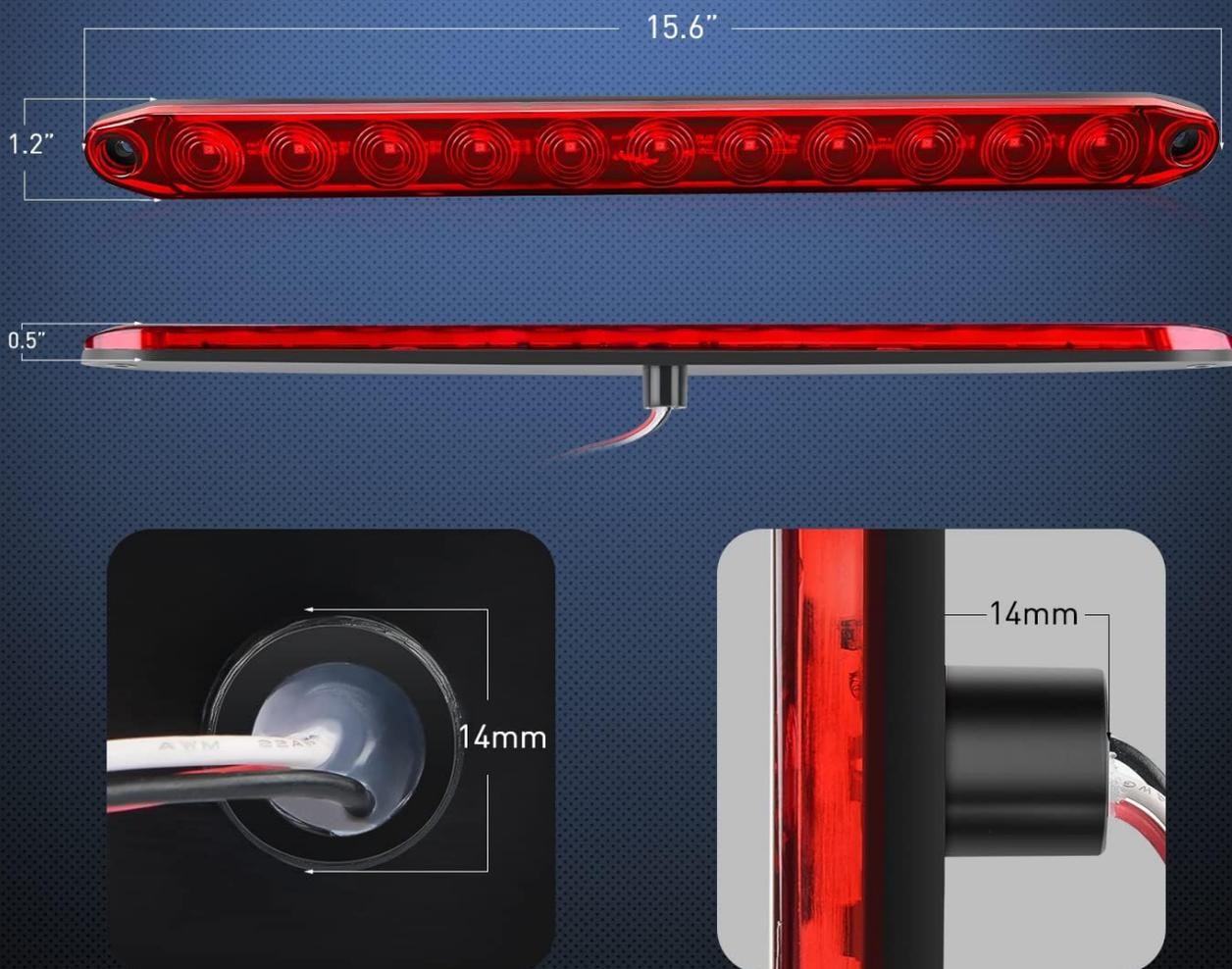
Refer to the following diagrams for component dimensions to ensure proper fitment:

PRODUCT DIMENSION



Diagram showing the dimensions of the square LED trailer lights, including height, width, and depth.

PRODUCT DIMENSION



Detailed dimensions for the 16-inch LED brake light bar and the amber/red side marker lights.

Mounting

The square lights are designed for stud mounting. Ensure a firm and durable installation by tightening the mounting nuts securely. The side marker lights and the 16-inch brake light bar are installed using screws.

PRODUCT DISPLAY

Others'



Slide-in bolt mounting design, easy to lose and break.

Ours



Stud mounting design, firm installation and durable

VS



No groove to run wire, affect the surface mounting of the light.



Special design groove to run wire for perfect surface mounting

VS

Comparison of stud mounting design for square lights versus slide-in bolt mounting, highlighting the secure stud mounting method.

Wiring Connections

Proper wiring is crucial for the correct function of the trailer lights. Refer to the diagram and instructions below. If an existing trailer harness is present, connect color-to-color. For new installations, use the provided two-wire bundle.

• Square Lights:

- White wire: Ground (Negative)
- Brown wire: Running Light (Positive)
- Yellow wire: Left Turn and Brake Light (Positive)
- Green wire: Right Turn and Brake Light (Positive)

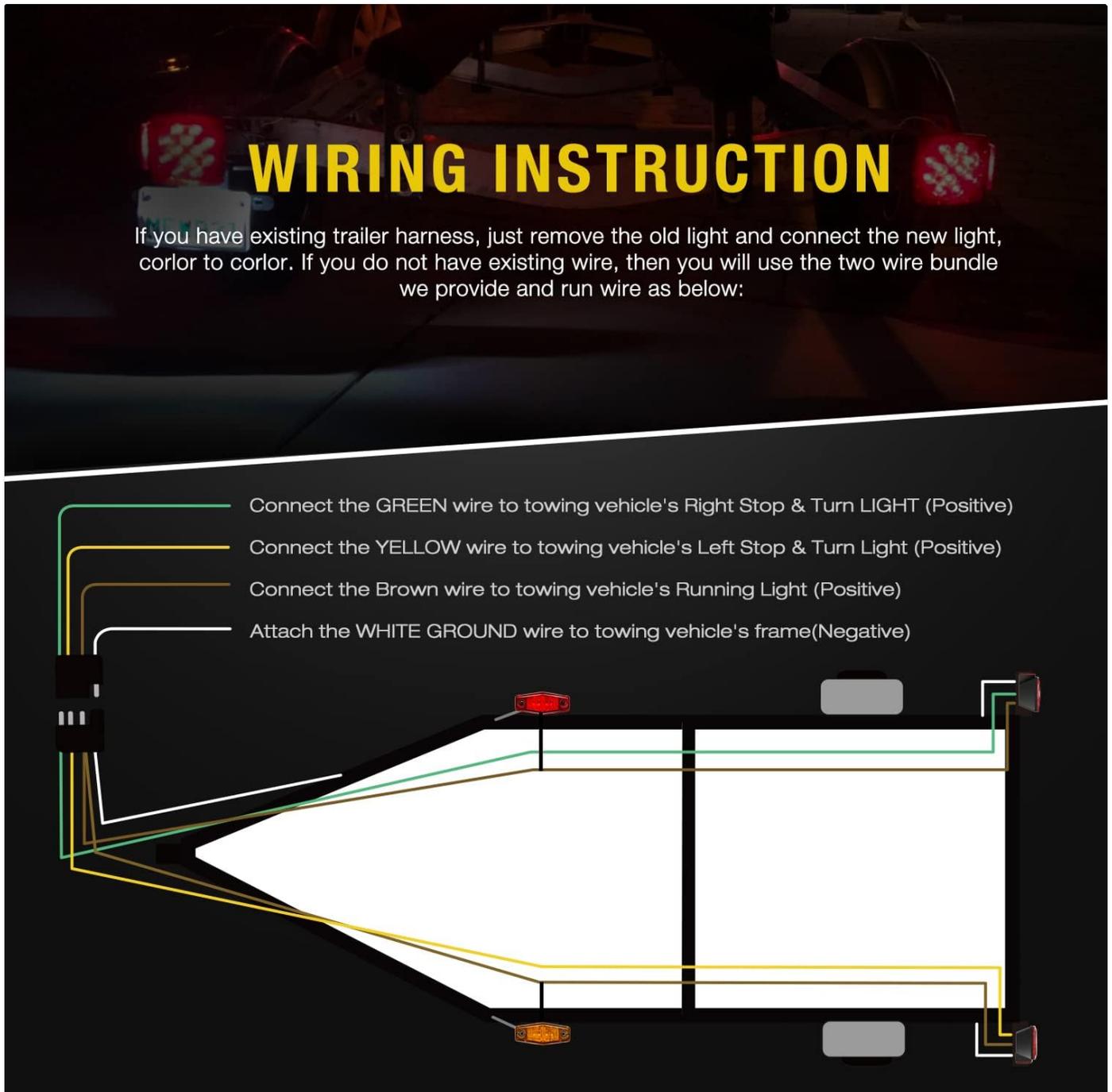
• 16-Inch Brake Light Bar:

- White wire: Ground (Negative)
- Black wire: Low Brightness Tail Light (Positive)

- Red wire: High Brightness Brake Light (Positive)

- **Side Marker Lights:**

- White wire: Ground (Negative)
- Black wire: Positive



Detailed wiring diagram illustrating connections for the square lights, 16-inch brake light bar, and side marker lights to the vehicle's electrical system.

Your browser does not support the video tag.

This video demonstrates the wiring process and shows the various light functions of the Nilight LED Trailer Light Kit, including stop, turn, tail, and marker lights.

OPERATING FUNCTIONS

The Nilight TR-155 LED Trailer Light Kit provides multiple lighting functions for safe trailer operation:

- **Running Lights:** Activated with vehicle headlights, providing continuous illumination.
- **Stop/Brake Lights:** Illuminate brightly when the vehicle's brakes are applied.
- **Turn Signal Lights:** Flash to indicate turns or lane changes.
- **Side Marker Lights:** Provide additional visibility along the sides of the trailer.
- **License Plate Light:** Illuminates the license plate for visibility.



Visual representation of the different light functions: running light, side marker light, license plate light, and stop/turn light.

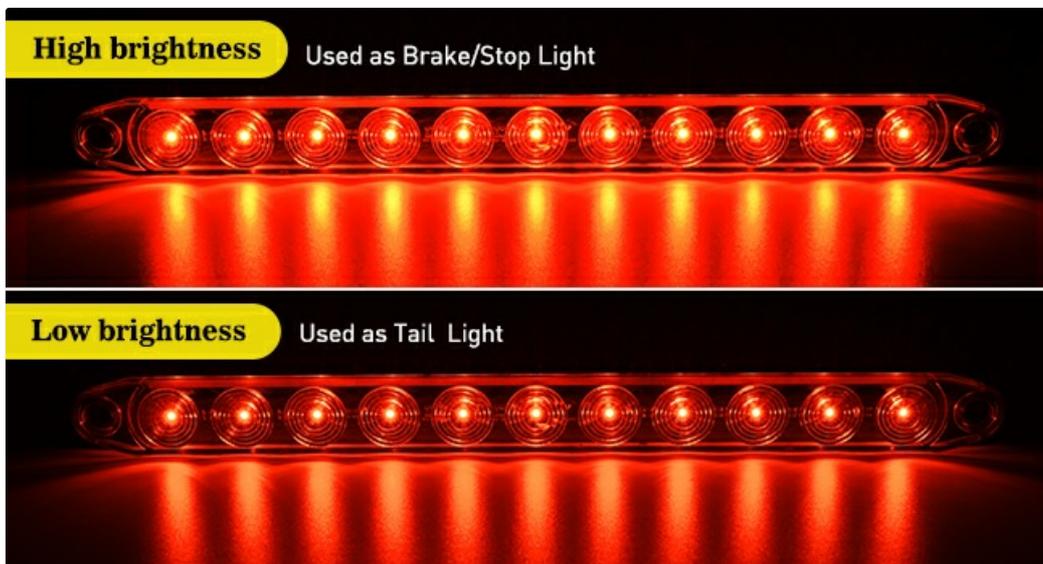


Illustration of the 16-inch brake light bar showing both low brightness (tail light) and high brightness (brake/stop light) modes.



Display of the amber and red side marker lights in operation.

CARE AND MAINTENANCE

To ensure the longevity and optimal performance of your Nilight LED Trailer Light Kit, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check all lights for proper function, including running, brake, turn signal, and marker lights.
- **Wiring Check:** Inspect wiring for any signs of wear, corrosion, or loose connections. Secure any loose wires and repair damaged insulation.
- **Cleaning:** Clean the light lenses regularly with a soft cloth and mild soap solution to remove dirt and debris. Avoid abrasive cleaners that could scratch the lens.
- **Waterproofing:** While the lights are highly waterproof, ensure that all seals and connections remain intact. The square lights feature water drainage notches; ensure these are not obstructed.
- **Hardware:** Periodically check mounting hardware for tightness and corrosion. Replace any corroded or damaged fasteners.



WATERPROOF FOR SUBMERSIBLE

Inside LEDs are fully waterproof sealed and entirely-submersible. Work perfectly without risk of electric short. Light housing features water drainage notch for added protection!



Image demonstrating the waterproof design of the square LED trailer lights, submerged in water, highlighting the sealed construction and water drainage notches.

TROUBLESHOOTING

If you encounter issues with your trailer light kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights not illuminating	No power, faulty wiring, blown fuse, damaged light unit	Check vehicle's fuse box, verify all wiring connections (ground, positive), test light unit with a known good power source.
Lights dim or flickering	Poor ground connection, insufficient power, loose wiring	Ensure ground wire is securely attached to a clean, unpainted metal surface. Check for corrosion on terminals. Verify power supply.

Problem	Possible Cause	Solution
Incorrect light function (e.g., brake light acts as turn signal)	Incorrect wiring connections	Re-check wiring against the provided diagram, ensuring each wire is connected to its correct function.
Water inside light housing	Damaged seal, obstructed drainage notch	Inspect seals for damage. Clear any obstructions from the water drainage notches. If damage is severe, replacement may be necessary.

PRODUCT SPECIFICATIONS

- **Model:** TR-155
- **Brand:** Nilight
- **Voltage:** 12V DC
- **Wattage:** 4.44 watts
- **Light Source Type:** LED (2835 and 5050 SMD LEDs)
- **Material:** Polycarbonate Lens
- **Waterproof Rating:** Highly sealed and waterproof design with drainage notches
- **Vehicle Service Type:** Bus, Snowmobile, Trailer, Truck, RV, Marine, Pickups, Camper, Tractors
- **Max Vehicle Width:** 80 inches
- **Item Weight:** 2.97 pounds
- **Package Dimensions:** 15.79 x 10.79 x 5.08 inches
- **Assembly Required:** No
- **Automotive Fit Type:** Universal Fit

WARRANTY AND CUSTOMER SUPPORT

Nilight products are designed for durability and performance. For warranty information or technical assistance, please refer to the official Nilight website or contact their customer support directly. Keep your purchase receipt for warranty claims.

For further assistance, visit the official Nilight store: [Nilight Store on Amazon](#).

