

# Owner's Manual & Safety Instructions

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

21f

# Kenway™

## SUBMERSIBLE LED TRAILER LIGHT KIT



Visit our website at: <http://www.harborfreight.com>  
Email our technical support at: [productsupport@harborfreight.com](mailto:productsupport@harborfreight.com)

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.  
Tools required for assembly and service may not be included.

### **⚠WARNING**

Read this material before using this product.  
Failure to do so can result in serious injury.  
**SAVE THIS MANUAL.**

## Specifications

Power Source	12 VDC only (Negative Ground Only)
Features	2 Combination Submersible, Stop, Tail, Turn Signals, License Plate Bracket, 4 ft. Trunk Harness and 22 ft. Y-Harness.
Light Type	18 LEDs for Right Hand Light (not serviceable) 22 LEDs for Left Hand Light (not serviceable)

**Note:** This light does not contain a sealed reflex unit.

The logo for Kenway, featuring the brand name in a bold, italicized, black serif font. The letter 'K' is significantly larger and more stylized than the other letters, with a horizontal bar extending to the left. A small trademark symbol (TM) is located at the bottom right of the 'y'.

# IMPORTANT SAFETY INFORMATION

## Installation Precautions

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1. Install only according to these instructions. Improper installation can create hazards.
2. Wear ANSI-approved safety goggles and heavy-duty work gloves during installation.
3. Keep installation area clean and well lit.
4. Keep bystanders out of the area during installation.
5. Do not install when tired or when under the influence of drugs or medication.
6. Read all instructions and safety precautions in the vehicle's manual onto which the Trailer Lights will be installed.
7. Install on negative ground 12VDC systems only.
8. Do not install this product yourself unless you are technically competent to do so. If necessary, have a qualified technician install the Trailer Lights.
9. Use the correct lights and electrical setup for your trailer.  
If the vehicle is OVER 80" wide, install three additional Red Marker Lights\* (not included) onto the rear of the unit.
10. If the towing vehicle has rear turn signals separated from its stop lights, additional hardware and installation procedures will be needed. Contact a qualified technician for guidance.

\* Example additional marker light locations:

Mount the three Red Marker Lights to the rear of the vehicle, making sure the Lights are no closer than 6" and no farther away than 12" from each other center to center. After mounting, use wire nut connectors (not included) to connect all three leads together. Then connect to the Brown wire in the back of one Tail Light (either side) provided in this Kit.

## Use Precautions

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1. This product is not a toy. Do not allow children to play with this item.
2. Use as intended only.
3. Inspect before every use; do not use if parts are loose or damaged.
4. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

The logo for Kenway, featuring the brand name in a bold, italicized, black serif font with a horizontal line underneath.

## Installation Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

## Towing Vehicle Installation

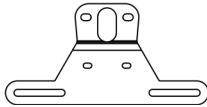
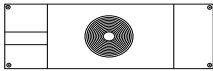
**Note:** Use the BLUE Splice Connectors to make the connections in steps 1-3.

1. Connect the BROWN wire of the Trunk Harness (4) to the towing vehicle's Running Lights wire.
2. Connect the YELLOW wire of the Trunk Harness to the vehicle's Left Stop & Turn light.
3. Connect the GREEN wire of the Trunk Harness to the vehicle's Right Stop & Turn light.
4. Attach the WHITE GROUND wire to the towing vehicle's frame.

## Trailer Installation

**NOTE: INSTALL THE TRAILER LIGHTS ONLY AFTER THE TRAILER IS FULLY ASSEMBLED.**

1. Mount the Tail Light (1b), marked "LH" (with the License Window on bottom), on the left rear of the trailer with its side marker to the outside of the trailer. Then, mount the License Plate Bracket (2) underneath it.
2. Mount the Tail Light (1a), marked "RH" (without the License Window), on the right rear of the trailer with its side marker to the outside of the trailer.
3. Use the included Metal Frame Clips to mount each half of the Y-Harness (3) down each side of the trailer. Run one YELLOW wire and one BROWN wire down the left side and one GREEN wire and one BROWN wire down the right side of the trailer.
4. Connect the YELLOW and BROWN wires to the Left Tail Light (1b) with the included Wire Nut Connectors.
5. Connect the GREEN and BROWN wires to the Right Tail Light (1a) with the included Wire Nut Connectors.
6. Attach the WHITE GROUND wire to the trailer tongue or frame.

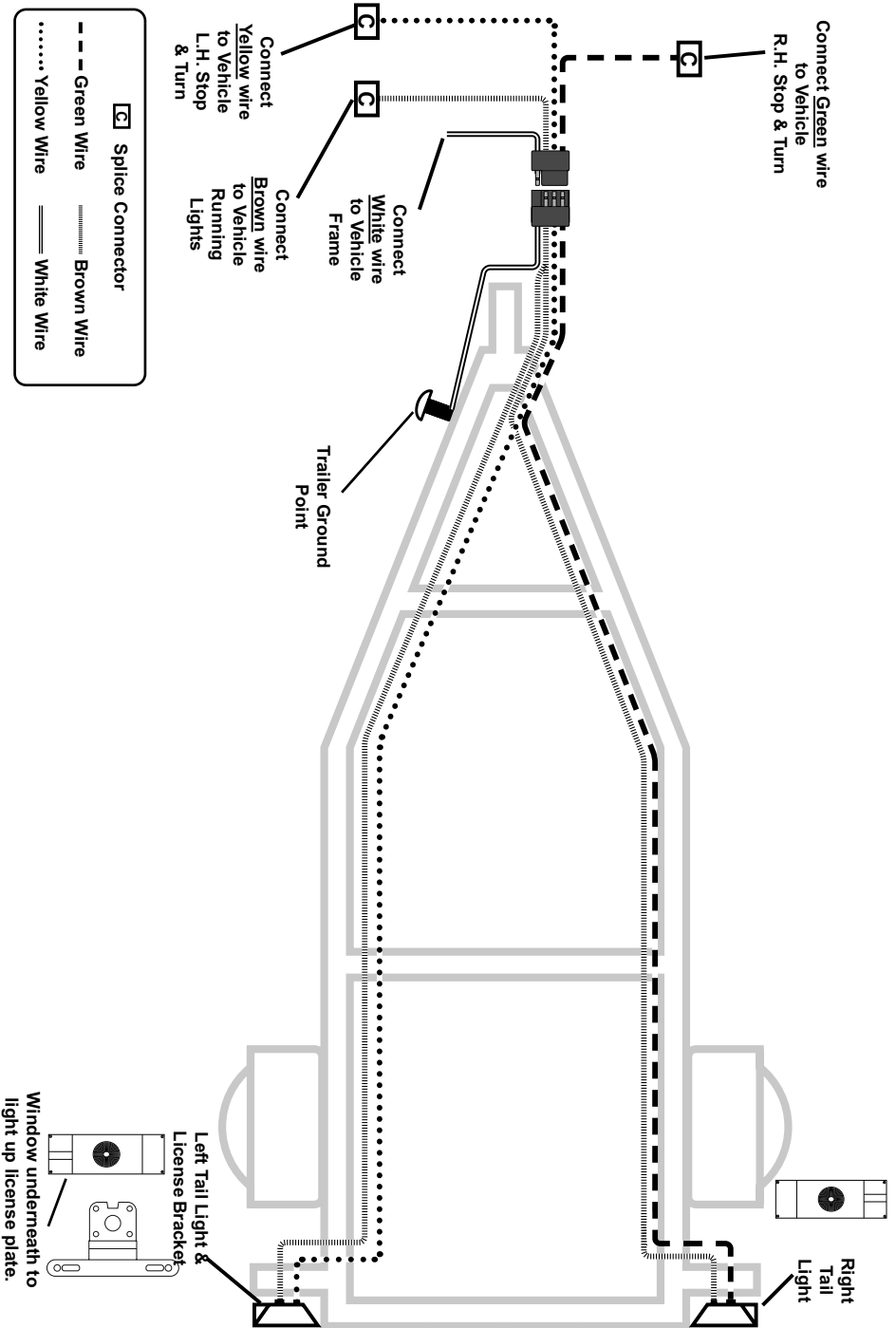


2. Mount the Tail Light (1a), marked "RH" (without the License Window), on the right rear of the trailer with its side marker to the outside of the trailer.



**Note:** These Trailer Lights depend on a metal, grounded trailer frame.

# Wiring Diagram



## Operation



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

### **⚠WARNING**

#### **TO PREVENT SERIOUS INJURY OR DEATH FROM DRIVING HAZARDS:**

Test operation of all lights before every use. Troubleshoot and repair wiring properly before using. Do not use while trailer light operation does not match vehicle light operation, if any lights do not light up, or if any lights flicker. Park on level area away from traffic and set vehicle parking brake/chock tires.

## Testing

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1. Connect the Y-Harness (3) Plug to the Trunk Harness (4) Plug.
2. Turn on the towing vehicle's headlights. The two Tail Lights (1a and 1b) should turn on.
3. The brighter Stop Lights should turn on only when the vehicle's brake pedal is depressed, or when the vehicle's turn signal is activated (ignition key must be in its "on" position).

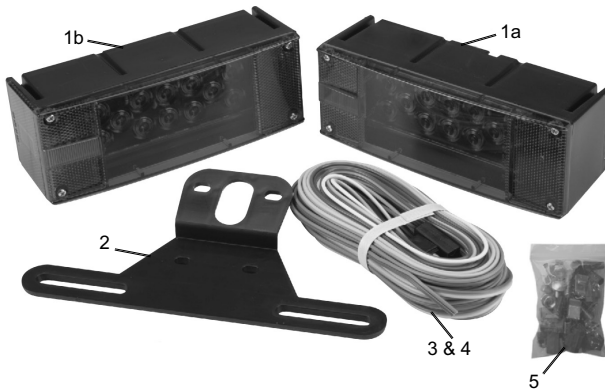
## PLEASE READ THE FOLLOWING CAREFULLY

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### Parts List and Diagram

Part	Description	Qty
1a	RH Tail Light	1
1b	LH Tail Light (with License Window on bottom)	1

Part	Description	Qty
2	License Plate Bracket	1
3	25' Trailer Y Harness	1
4	4' Trunk Harness	1
5	Mounting Hardware	1 pkg.



**Record Serial Number Here:**

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175454386 when ordering parts. cid:image004.jpg@01D735D9.15FB6010

## Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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26541 Agoura Road • Calabasas, CA 91302 • 1-888-866-5797