

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.

18c

Kenway™

LED TECHNOLOGY TRAILER LIGHT KIT



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: 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 stop, tail, turn signals, two amber side marker lights, license plate light, and Y-Harness.
Light Type	Right Tail Light: 12 rear facing LED's 4 side facing LED's Left Tail Light: 12 rear facing LED's 4 side facing LED's 3 LED's facing down (for plate illumination)
Safety Requirements Met	DOT and Federal Vehicle Safety (FMVSS), if installed properly

The logo for Kenway, featuring the brand name in a bold, italicized, sans-serif font. The letters are black with a white outline, and a small trademark symbol (TM) is located at the end of the word.

Important Safety Information

Installation Precautions

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 Light Kit will be installed.
7. Install on negative ground 12 VDC 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 Light Kit.
9. Use the correct lights and electrical set-up 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

1. This product is not a toy. Do not allow children to play with this item.
2. Use as intended only. Not for marine use. Do not submerge.
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.

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

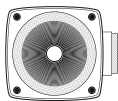
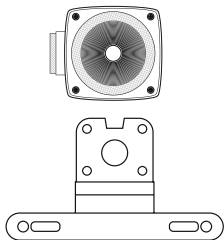
Note: Use the BLUE Splice Connectors to make the connections in steps 1-3.

1. Connect the BROWN wire of the Trunk Harness (5) to the towing vehicle's Tail Light 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

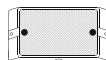
NOTE: INSTALL THE LIGHT KIT ONLY AFTER THE TRAILER IS FULLY ASSEMBLED.

1. Mount the Tail Light (1b) , marked "LH" (with the License Window), on the left rear of the trailer with its side marker to the outside of the trailer. Then, mount the License Plate Bracket (3) 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 (4) 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 Wire Nut Connectors.
5. Connect the GREEN and BROWN wires to the Right Tail Light (1a) with the Wire Nut Connectors.
6. Attach the WHITE GROUND wire to the trailer tongue or frame.

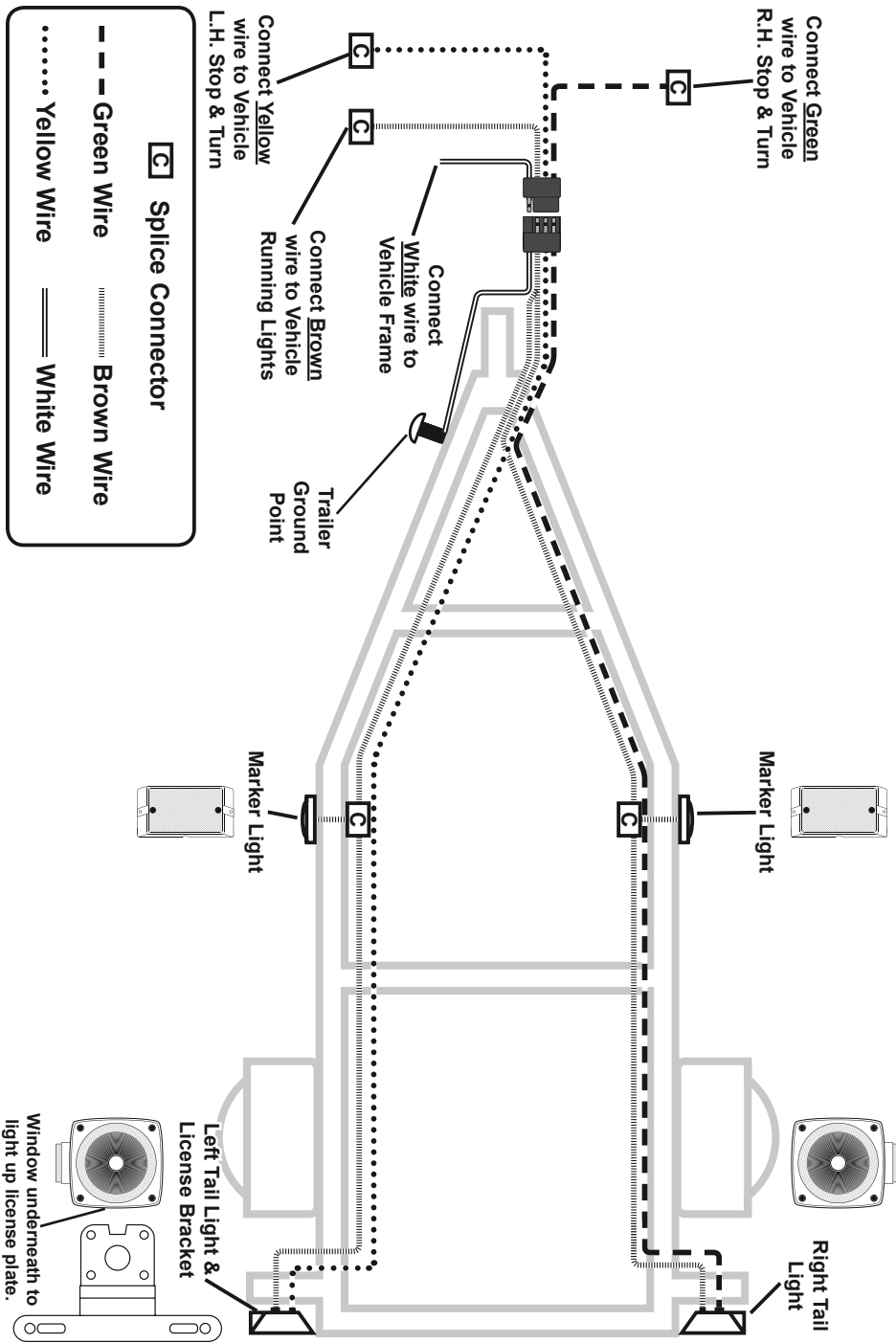


Note: This kit depends on a metal, grounded trailer frame.

7. Mount the two Marker Lights (2) in the areas shown in the illustration. Connect each wire from the Marker Lights to the BROWN wire on each half of the Y-Harness (4).



Wiring Diagram



Operation



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⚠️ 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

1. Connect the Y-Harness (4) Plug to the Trunk Harness (5) Plug.
2. Turn on the towing vehicle's headlights. The two Stop-Turn-Tail Lights (1) and two Marker Lights (2) 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).

Troubleshooting

Problem	Possible Causes
No lights light up.	<ol style="list-style-type: none">1. Vehicle's running lights off.2. Trailer wiring harness disconnected or connection is loose.3. Main ground wire not connected properly.
Trailer light operation does not match vehicle light operation.	<ol style="list-style-type: none">1. Trunk Harness not wired properly to vehicle electrical system.2. Y-Harness not wired properly to trailer lights.
A specific light does not light up or flickers.	<ol style="list-style-type: none">1. Wiring to that light is loose or disconnected.2. That light is broken.
All lights flicker.	<ol style="list-style-type: none">1. Trailer wiring harness connection is loose.2. Main ground wire not connected properly.
Vehicle's fuse blows repeatedly.	Short circuit somewhere in wiring or lights. Diagnose to isolate and repair the problem. Route wires carefully to avoid pinching.



Follow all safety precautions whenever diagnosing or servicing the lights.
Park on level area away from traffic and set vehicle parking brake/chock tires.

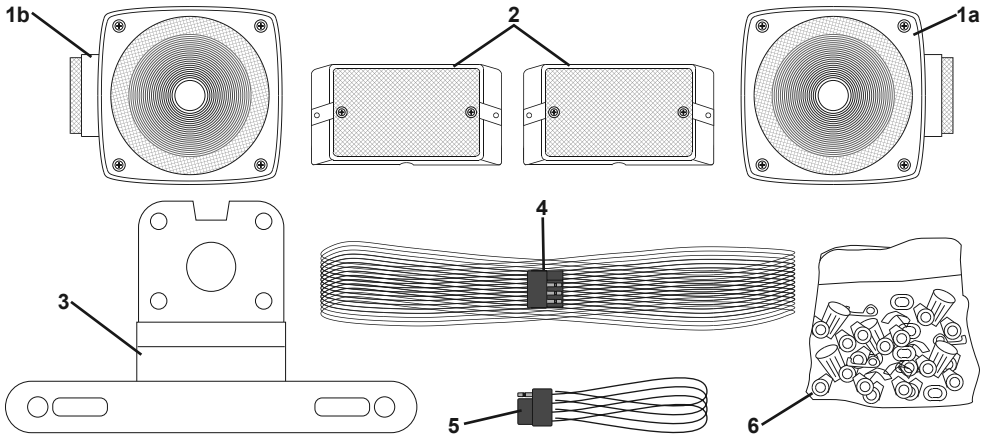
PLEASE READ THE FOLLOWING CAREFULLY

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Parts List and Diagram

Part	Description	Qty.
1a	RH Tail Light	1
1b	LH Tail Light (with license plate light on bottom)	1
2	Marker Light	2

Part	Description	Qty.
3	License Plate Bracket	1
4	Y-Harness	1
5	Trunk Harness	1
6	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.

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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