

12V LED Trailer Light Kit

WARNING

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

ASSEMBLY & OPERATING INSTRUCTIONS

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: 16 LEDs --- 12 rear facing large LEDs, --- 4 small LEDs - on side marker Left Tail Light: 21 LEDs --- 12 rear facing large LEDs, --- 4 small LEDs - on side marker, --- 5 white LEDs facing down (for plate illumination)

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 to comply with DOT standards.
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 for long periods of time.
3. Inspect before every use; do not use if parts are loose or damaged.

Installation Instructions

WARNING: Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this document before set up or use of this product.

Towing Vehicle Installation

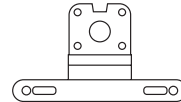
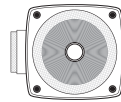
Note: Use the BLUE Splice Connectors to make the connections in steps 1-3.

1. Connect the BROWN wire of the Trunk Harness 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.



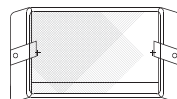
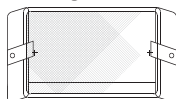
2. Mount the Tail Light (1a), marked "RH" (Right Hand) (without the License Window), on the right rear of the trailer with its side marker to the outside of the trailer.



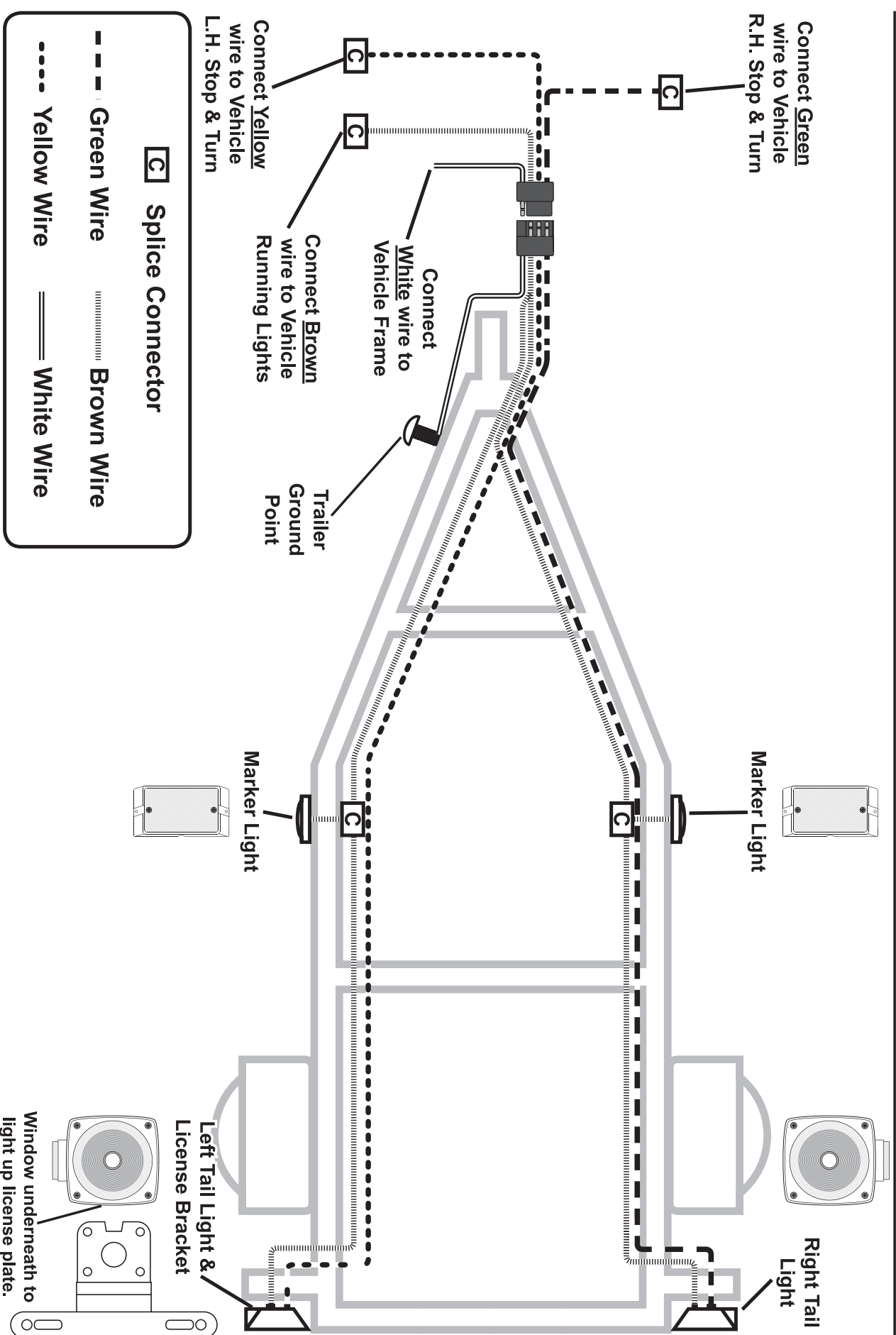
3. Use the included Metal Frame Clips to mount each half of the Y-Harness (4) down each side of the trailer. Run one YELLOW wire and one BROWN wire down the left side and one GREEN wire and one BROWN wire down the right side of the trailer.
4. Connect the YELLOW and BROWN wires to the Left Tail Light (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, ground 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

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this document 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

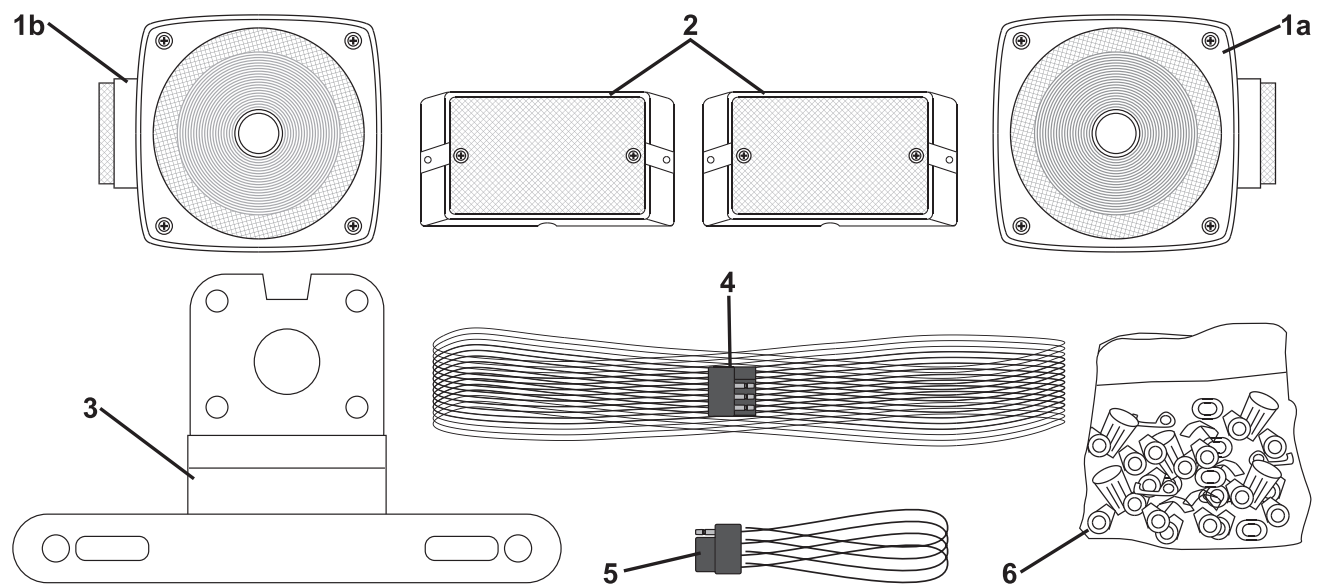
1. Connect the Y-Harness (4) Plug to the Trunk Harness (5) Plug.
2. Turn on the towing vehicle's headlights. The two Stop-Turn-Tail Lights (1) and two Marker Lights (2) should turn on.
3. The brighter Stop Lights should turn on only when the vehicle's brake pedal is depressed, or when the vehicle's turn signal is activated (ignition key must be in its "on" position)

Troubleshooting

Problem	Possible Causes
No lights light up.	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.	Trunk Harness not wired properly to vehicle electrical system or Y-Harness not wired properly to trailer lights.
A specific light does not light up or flickers.	1. Wiring to that light is loose or disconnected. 2. That light is broken.
All lights flicker.	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.	

Part 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
3	License Plate Bracket	1
4	Y-Harness	1
5	Trunk Harness	1
6	Mounting Hardware	1pkg



Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.