

TOWSMART B07B894CHK

TOWSMART Standard 80 in. Under Trailer Light Kit with Side Marker Lights User Manual

Brand: TOWSMART | Model: B07B894CHK

1. PRODUCT OVERVIEW

The TowSmart Standard Trailer Light Kit is designed for trailers under 80 inches in width, providing essential lighting functions. This kit includes incandescent lights suitable for various trailer styles. It features a durable, weatherproof, and corrosion-resistant housing with a built-in reflex lens made from acrylic, ensuring resilience against harsh weather conditions. The lights function as tail lights, side turn signals, brake lights, and include a license plate illuminator.



Image 1.1: The TowSmart Standard Trailer Light Kit components, showing the main red tail/brake lights and amber side marker lights.

2. KEY FEATURES

- **Easy Installation:** Features a 2-bolt stud design with included mounting hardware for straightforward setup.
- **Durable Construction:** Equipped with a corrosion-resistant housing built to withstand extreme weather conditions.
- **Integrated Reflector:** Built-in reflective lens eliminates the need for a separate reflector, enhancing safety and convenience.
- **Scratch Resistant:** Lens features a scratch-resistant film for added protection and longevity.
- **DOT Compliant:** Meets or exceeds Department of Transportation (DOT) standards for safety and performance.
- **Multi-Function Lighting:** Provides tail light, turn signal (side), brake light, and license plate illumination functions.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all the following components are included:

- 2 x Stop, Turn, and Tail Lights (Red)
- 2 x Side Marker Lights (Amber)
- 1 x License Plate Bracket
- 1 x 20 ft. Wiring Harness
- Mounting Hardware (bolts, nuts, washers)



4. SAFETY INFORMATION

WARNING: Always disconnect the vehicle's battery before performing any electrical work to prevent injury or damage.

- Ensure all connections are secure and properly insulated to prevent short circuits.
- Verify that the trailer's electrical system is compatible with the light kit (12V system).
- Do not modify the light kit components. Use only as intended.
- Always test the lights thoroughly after installation to ensure proper function before operating the trailer on public roads.
- Consult local regulations regarding trailer lighting requirements.

5. SETUP AND INSTALLATION

5.1 Pre-Installation Checklist

- Ensure the trailer is parked on a level surface and secured.
- Gather necessary tools: wrench set, wire strippers, crimping tool, electrical tape, zip ties.
- Review the wiring diagram for your specific trailer if available.

5.2 Installation Steps

1. Mount the Lights:

Attach the two main stop/turn/tail lights to the rear of the trailer using the provided 2-bolt studs and mounting hardware. Ensure they are securely fastened and positioned correctly for visibility. The side marker lights should be mounted on the sides of the trailer, typically towards the front or middle, ensuring they are visible from the side.





Image 5.1: Side view of main light and side marker light showing mounting points. Image 5.2: Bottom view of main light showing bulb and wiring.

2. Install License Plate Bracket:

Mount the license plate bracket to the rear of the trailer, typically near the left main light, ensuring the license plate illuminator function can properly light the plate.

3. Route the Wiring Harness:

Carefully route the 20 ft. wiring harness along the trailer frame, securing it with zip ties or clips to prevent snagging or damage. Ensure the harness reaches both the lights and the trailer connector at the front.

4. Connect the Lights:

Connect the wires from the main lights and side marker lights to the appropriate wires on the main wiring harness. Typically, the wiring color code is standard:

- **Brown Wire:** Tail lights and side marker lights (running lights).
- **Yellow Wire:** Left turn signal and brake light.
- **Green Wire:** Right turn signal and brake light.
- **White Wire:** Ground wire. Ensure this is securely connected to the trailer frame for a good ground connection.

Use appropriate wire connectors (e.g., crimp connectors) and insulate all connections with electrical tape or heat shrink tubing to protect against moisture and corrosion.

5. Connect to Vehicle:

Plug the trailer's wiring harness connector into the corresponding receptacle on your towing vehicle.

6. Test All Functions:

With the trailer connected to the vehicle, test all lighting functions: running lights, brake lights, left turn signal, right turn signal, and hazard lights. Ensure the license plate illuminator is also working correctly.

6. OPERATING INSTRUCTIONS

Once properly installed and connected to a towing vehicle, the TowSmart Trailer Light Kit operates automatically in conjunction with your vehicle's lighting system:

- **Running Lights:** When your vehicle's headlights or parking lights are on, the trailer's tail lights and side marker lights will illuminate.
- **Brake Lights:** When the vehicle's brake pedal is pressed, both main trailer lights will illuminate brighter to indicate braking.
- **Turn Signals:** When the vehicle's left or right turn signal is activated, the corresponding main trailer light will flash.
- **License Plate Illuminator:** The integrated license plate light will illuminate when the running lights are active, ensuring your license plate is visible.

Always perform a quick check of all trailer lights before each trip to ensure they are functioning correctly and are visible to other drivers.

7. MAINTENANCE

Regular maintenance will ensure the longevity and reliable performance of your trailer light kit:

- **Regular Inspection:** Periodically check all lights for cracks, damage, or loose connections.
- **Clean Lenses:** Clean the light lenses regularly with a soft cloth and mild soap to remove dirt and grime, ensuring maximum light output. Avoid abrasive cleaners.
- **Check Wiring:** Inspect the wiring harness for any signs of wear, fraying, or corrosion. Ensure all connections remain secure and insulated.
- **Ground Connection:** Verify that the ground connection to the trailer frame remains clean and free of rust for optimal electrical conductivity.
- **Bulb Replacement:** If a bulb burns out, replace it with an incandescent bulb of the same type and wattage. Refer to the specifications for bulb type.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No lights illuminate.	No power from vehicle; faulty ground connection; main wiring harness disconnected.	Check vehicle's fuse for trailer lights. Ensure ground wire is securely attached to clean metal on trailer frame. Verify harness is fully plugged into vehicle.

Problem	Possible Cause	Solution
One or more lights not working.	Burnt out bulb; loose or corroded wire connection; faulty light assembly.	Replace bulb. Inspect and clean wire connections at the light and harness. Test light assembly with a known good power source.
Lights are dim or flickering.	Poor ground connection; low voltage from vehicle; corroded connections.	Clean and secure ground connection. Check vehicle's electrical system. Clean all wire connections.
Brake lights or turn signals not working.	Specific wire for that function is disconnected or damaged; vehicle's turn signal/brake fuse.	Check yellow (left) and green (right) wires for continuity and secure connection. Check vehicle's fuses.
License plate light not working.	Burnt out bulb; disconnected brown wire; faulty illuminator.	Replace bulb. Check brown wire connection.

9. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	TOWSMART
Model Number (ASIN)	B07B894CHK
UPC	849278014018
Item Weight	3.2 pounds
Package Dimensions	11.5 x 9 x 3.5 inches
Special Features	Waterproof, Corrosion Resistant Housing, Built-in Reflex Lens
Vehicle Service Type	Trailer (under 80 in. width)
Lens Color	Red (main lights), Amber (side marker lights)
Lens Material	Acrylic
First Available Date	August 23, 2017

10. WARRANTY AND SUPPORT

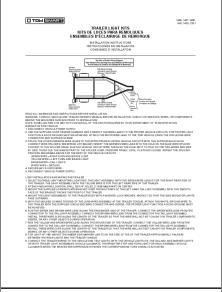
TOWSMART products are manufactured to high-quality standards. For specific warranty information regarding your Standard 80 in. Under Trailer Light Kit, please refer to the documentation included with your purchase or visit the official TOWSMART website.

For technical support, replacement parts, or further assistance, please contact TOWSMART customer service.

You can find contact information on the [TOWSMART Store on Amazon](#) or their official website.

© 2023 TOWSMART. All rights reserved.

Related Documents

	<p>TowSmart Trailer Light Kit Installation Guide</p> <p>Step-by-step installation instructions for TowSmart trailer light kits, covering vehicle and trailer wiring. Includes models 1400, 1401, 1405, 1431, 1433, 2331.</p>
	<p>TowSmart 4-Way Light Tester Installation Instructions</p> <p>Step-by-step installation instructions for the TowSmart 4-Way Light Tester (Model 1486). Includes wiring guide, usage steps, and support contact information from Winston Products Company.</p>
	<p>TowSmart Hitch Ball with 1" Shank Installation Instructions</p> <p>Official installation instructions for the TowSmart Hitch Ball with a 1-inch shank. Includes critical safety warnings, step-by-step guidance, and torque specifications for proper trailer hitch ball installation.</p>
	<p>TowSmart Hitch Ball with 3/4" Shank Installation Instructions</p> <p>Step-by-step installation guide for the TowSmart Hitch Ball with a 3/4" shank, including important safety warnings and torque specifications.</p>