

Trux TLED-H110

Trux TLED-H110 LED Projector Headlight Assembly Instruction Manual

For Peterbilt 389, 388, 367, 567 (Driver Side)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Trux TLED-H110 LED Projector Headlight Assembly. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. Retain this manual for future reference.

The Trux TLED-H110 is designed to enhance vehicle visibility and safety with its advanced LED projector technology and dual-function accent lighting. This assembly is specifically for the driver side of compatible Peterbilt models.

2. PRODUCT OVERVIEW

2.1. Key Features

- "Plug & Play" design for simplified installation.
- Dual Function White Glow Position (DRL Auxiliary) and Amber Marker LED Accents.
- OE Replacement for part number P54-6112-110.
- Integrated LED Side Marker.
- Projector Technology for a wider and more focused beam pattern.
- Durable, waterproof construction.

2.2. What's in the Box

- 1 x Trux TLED-H110 LED Projector Headlight Assembly (Driver Side)



Figure 1: Trux TLED-H110 LED Projector Headlight Assembly (Driver Side). This image displays the chrome headlight assembly with its clear lens and internal projector elements, along with the white LED accent strip.

3. VEHICLE COMPATIBILITY

This headlight assembly is compatible with the following Peterbilt truck models:

- Peterbilt 367: 2014 - 2018
- Peterbilt 388: 2006 - 2015
- Peterbilt 389: 2006 - Current Year
- Peterbilt 567: 2014 - 2018

Ensure your vehicle's make, model, and year match the compatibility list before proceeding with installation.

4. INSTALLATION INSTRUCTIONS

The Trux TLED-H110 headlight assembly features a "Plug & Play" design for straightforward installation. However, professional installation is recommended to ensure correct wiring and alignment, especially for those unfamiliar with vehicle electrical systems.

4.1. Pre-Installation Checklist

- Verify the headlight assembly matches the vehicle's driver side.
- Ensure the vehicle's ignition is off and the battery is disconnected to prevent electrical shorts.
- Gather necessary tools (e.g., screwdrivers, wrenches, wire cutters/strippers if custom wiring is needed).

4.2. Installation Steps

1. **Remove Existing Headlight:** Carefully remove the old headlight assembly from your Peterbilt truck. This typically involves unscrewing mounting bolts and disconnecting the electrical harness. Refer to your vehicle's service manual for specific removal procedures.
2. **Inspect Wiring:** Examine the vehicle's existing wiring harness for any signs of damage or corrosion. Clean any dirty connections.
3. **Connect New Headlight:** Connect the Trux TLED-H110 headlight assembly's electrical connectors to the vehicle's wiring harness. The "Plug & Play" design means these should match directly. Ensure all

connections are secure.

4. **Mount New Headlight:** Position the new headlight assembly into the vehicle's headlight opening. Secure it using the original mounting bolts. Do not overtighten.
5. **Reconnect Battery:** Reconnect the vehicle's battery.
6. **Test Functionality:** Turn on the vehicle's lights to test all functions: low beam, high beam, DRL (white glow position), and amber marker lights.
7. **Adjust Aim:** If necessary, adjust the headlight aim according to local regulations and for optimal road illumination. This usually involves adjustment screws on the headlight housing.

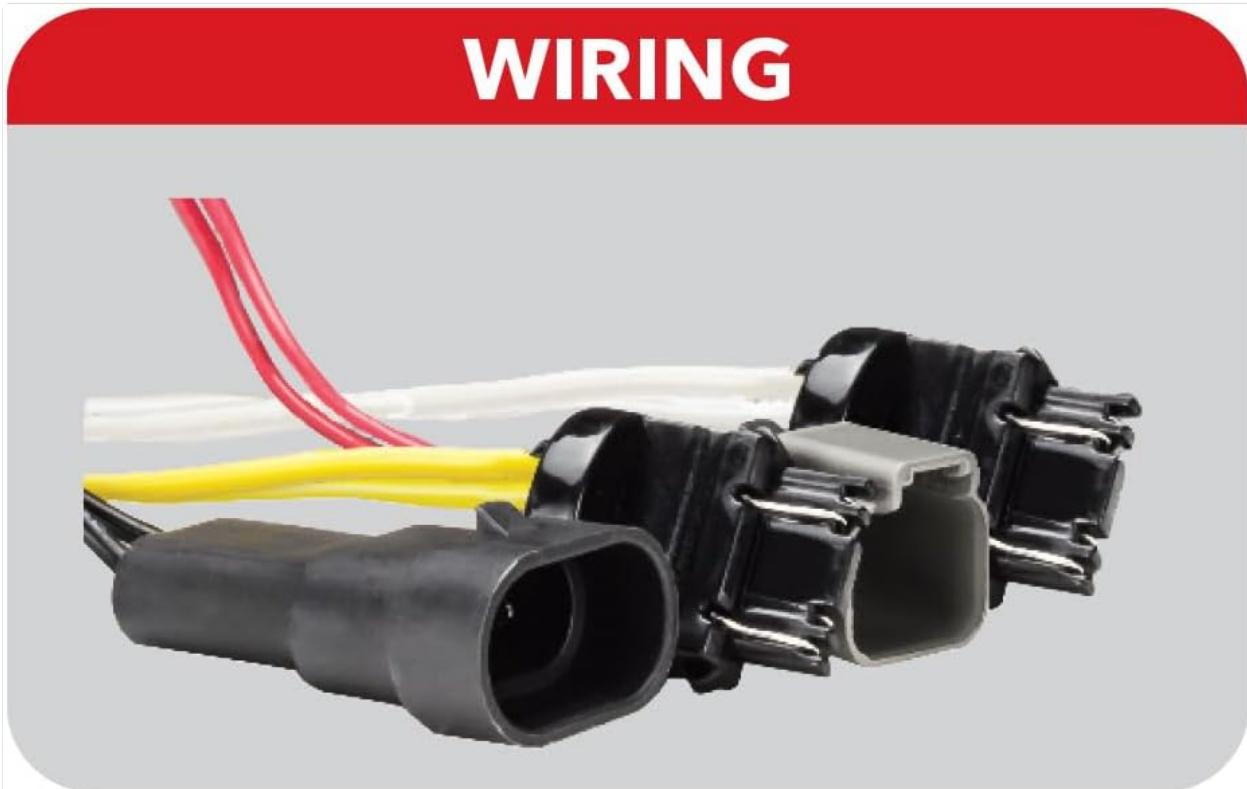


Figure 2: Example of wiring connectors for the headlight assembly. This image shows various electrical connectors and wires (red, white, yellow) typically used for headlight power and signal connections, illustrating the "Plug & Play" interface.

5. OPERATING INSTRUCTIONS

The Trux TLED-H110 LED Projector Headlight Assembly operates in conjunction with your vehicle's existing lighting controls.

- **Low Beam/High Beam:** Activate these functions using your vehicle's standard headlight switch. The projector technology provides a clear and wide beam pattern for improved visibility.
- **White Glow Position (DRL Auxiliary):** This feature provides a white LED accent light, typically functioning as a Daytime Running Light (DRL) or auxiliary position light, enhancing vehicle visibility during daylight hours.
- **Amber Marker LED Accents:** These amber LEDs function as marker lights, increasing the vehicle's visibility to other drivers, especially in low-light conditions or when signaling turns.



Figure 3: Trux TLED-H110 LED Projector Headlight Assembly with amber marker lights illuminated. This image shows the headlight with the amber LED accent strip active, demonstrating its dual-functionality.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your headlight assembly.

- **Cleaning:** Clean the lens regularly with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the polycarbonate lens material.
- **Inspection:** Periodically inspect the headlight assembly for any signs of damage, loose connections, or moisture ingress. Although the unit is waterproof, extreme conditions or physical damage can compromise its integrity.
- **Bulb Replacement:** The LED components are designed for long life and are generally not user-replaceable. If an LED fails, the entire assembly may need servicing or replacement.

7. TROUBLESHOOTING

If you encounter issues with your headlight assembly, refer to the following common troubleshooting steps:

- **Headlight Not Illuminating:**
 - Check vehicle fuses related to headlights.
 - Ensure all electrical connections are secure and free of corrosion.
 - Verify the vehicle's headlight switch is functioning correctly.
- **Dim or Flickering Lights:**
 - Inspect wiring for loose connections or damaged insulation.
 - Check for adequate voltage supply to the headlight.
- **Moisture Inside Lens:**
 - Small amounts of condensation can occur due to temperature changes and usually dissipate.
 - If significant water ingress is observed, inspect the housing for cracks or seal damage. This may require professional inspection.

For persistent issues, contact customer support or a qualified automotive technician.

8. TECHNICAL SPECIFICATIONS

Brand	Trux (Manufacturer)
Model	TLED-H110
OEM Part Number	P54-6112-110
Lens Material	Polycarbonate
Special Features	Waterproof, Projector Technology, Dual Function LED Accents
Vehicle Service Type	Semi Trucks
Auto Part Position	Front (Driver Side)
Color/Exterior	Chrome / Clear Lens
Assembly Required	Yes (Installation)

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This Trux TLED-H110 LED Projector Headlight Assembly is covered by a **3-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, accident, abuse, modification, or normal wear and tear. Please retain your proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, warranty claims, or further inquiries, please contact your authorized Trux dealer or the point of purchase. When contacting support, please have your product model number (TLED-H110) and proof of purchase readily available.

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Information in this manual is subject to change without notice.