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> LEDUR 4x6 LED Headlight Instruction Manual

## LEDUR H6545

# LEDUR 4x6 LED Headlight Instruction Manual

Model: H6545 (Compatible with H4651, H4652, H4656, H4666)

## 1. PRODUCT OVERVIEW

The LEDUR 4x6 LED Headlights are designed as a high-performance replacement for standard sealed beam headlights. They feature high-intensity LED chips, a durable aluminum housing, and an IP68 waterproof rating, ensuring reliable illumination and longevity. These headlights are suitable for various vehicles requiring 4x6 inch sealed beam lights.



Figure 1: LEDUR 4x6 LED Headlights (Set of 4)

This image displays a set of four rectangular LED headlights, designed for vehicle lighting. The headlights feature multiple individual LED elements within a clear lens, indicating a modern lighting solution.

## 2. KEY FEATURES

- **High-Intensity Illumination:** Equipped with 15pcs 3W LEDs for superior brightness compared to traditional halogen or HID xenon sealed beams.
- **Durable Construction:** Features a black aluminum housing and integral heatsink for efficient cooling, preventing lens yellowing and ensuring long-term performance.
- **Weatherproof Design:** IP68 rated for waterproof, shockproof, and dust-proof operation, suitable for various environmental conditions.
- **Moisture Management:** Includes a unique breathing hole design to dissipate moisture or water, maintaining optimal performance and extending lifespan.
- **Versatile Compatibility:** Designed to fit any vehicle with 4x6 inch LED headlights, including common OEM part numbers H4656, H4651, H4652, H4666, H4668, H4642, H6545.
- **Easy Installation:** Plug-and-play design with a standard H4 plug for straightforward setup.



Figure 2: Internal Components and H4 Plug

This diagram illustrates the internal LED chips, the H4 plug wiring (Ground, Low Beam, High Beam), and the breathing hole for moisture dissipation, highlighting the solid aluminum body for heat management.

### 3. SPECIFICATIONS

Feature	Detail
Brand	LEDUR
Model Number	H6545 (4x6 LED Headlights 4pcs)
OEM Part Numbers	H4651, H4652, H4656, H4666, H4668, H4642, H6545
Wattage	45 watts per headlight
Voltage	10-30V

Feature	Detail
Lumen Output	High Beam: 3280lm, Low Beam: 1680lm
Color Temperature	6000K
Waterproof Rating	IP68
Lifespan	Up to 50,000 hours
Housing Material	Black Aluminum
Lens Material	Polycarbonate (PC)
Dimensions	Approximately 6.28 x 4.28 x 2.85 inches (L x W x D)
Automotive Fit Type	Universal Fit



Figure 3: Headlight Dimensions

This image provides the approximate dimensions of the LEDUR 4x6 LED Headlight: 6.28 inches in length, 4.28 inches in width, and 2.85 inches in depth.

## 4. INSTALLATION GUIDE

### 4.1. Pre-Installation Check

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning installation.
- Verify that the LEDUR headlights are compatible with your vehicle's existing 4x6 inch sealed beam system.

### 4.2. Installation Steps

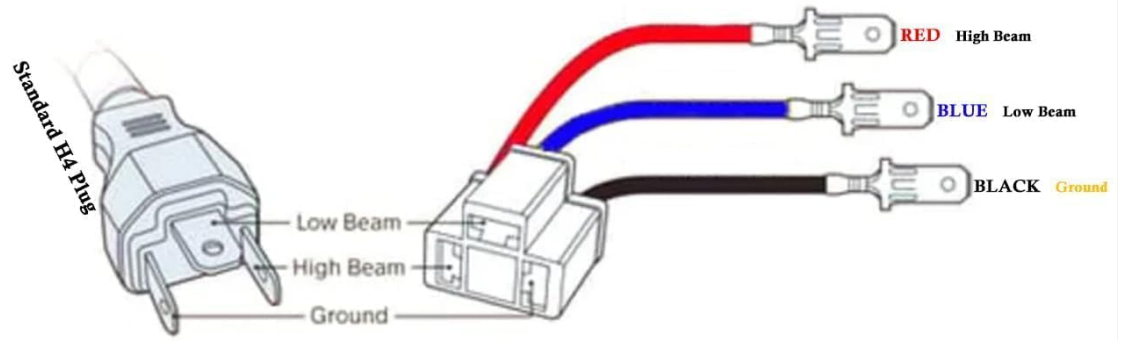
#### 1. Remove Existing Headlight:

Carefully remove the panel screws, open the mask, and then remove the original headlight unit from its housing.

#### 2. Connect Wiring:

The LEDUR headlights feature a standard H4 plug for direct connection. In some vehicles, the pin configuration on the headlamp may differ. Refer to the wiring diagrams below for potential pin swapping if necessary.

# 3-PIN-OUT H4 Convert Adapter



## When To Use?

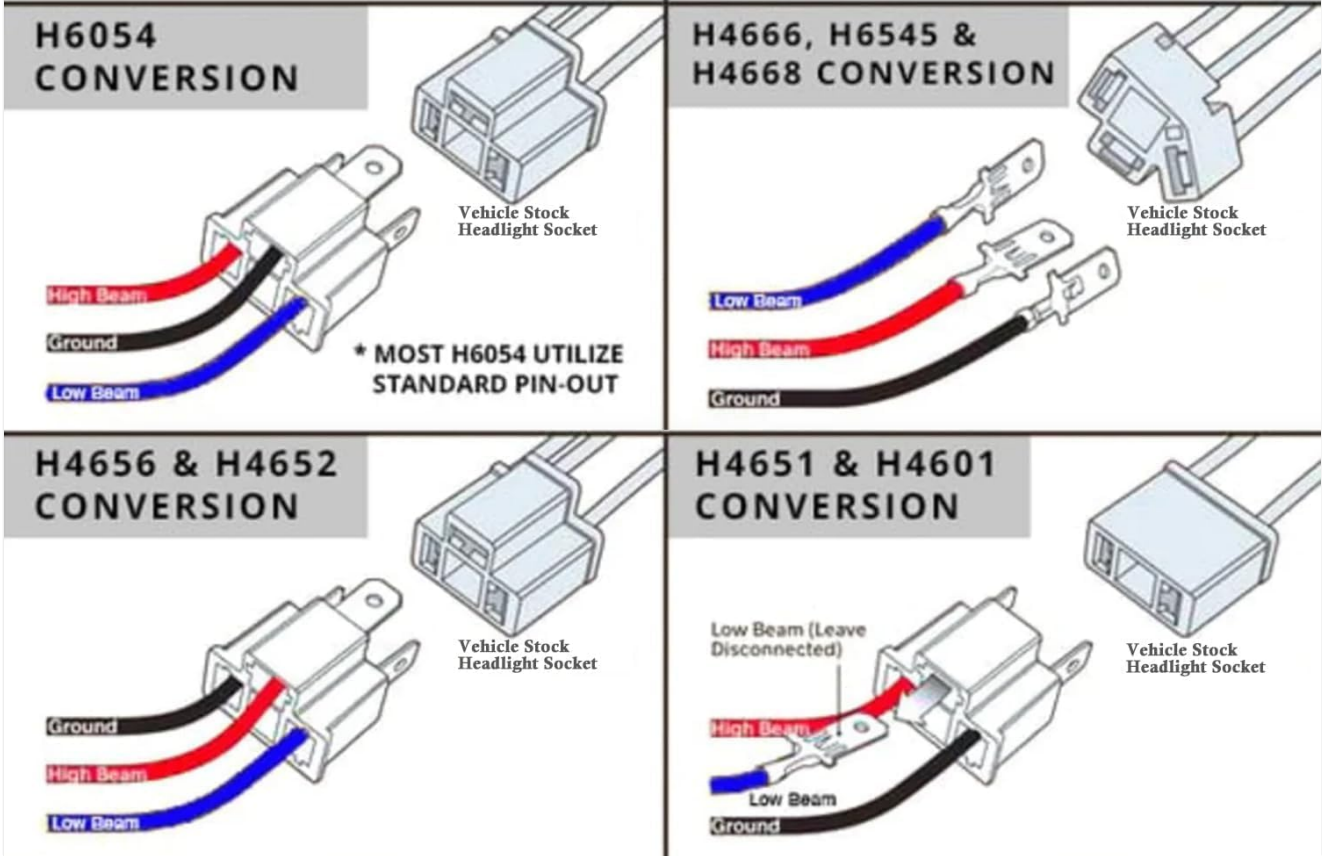


Figure 4: 3-PIN-OUT H4 Convert Adapter and Wiring Diagrams

This image displays various H4 wiring conversion diagrams for different OEM headlight types (H6054, H4666, H6545, H4668, H4656, H4652, H4651, H4601). It shows how to connect the LEDUR headlight's H4 plug to match the vehicle's stock headlight socket, including scenarios where pins might need to be swapped.

# WHEN TO USE H4 HARNESS



*The pins on the headlamp may be different for some vehicles, you may need to swap the pins. Here below are the pins out types*



## TO FIT DIM MALFUNCTIONING HEADLIGHT



**Perfectly FIT**

*If suffering from problems, such as dim malfunctioning headlight, like Toyota Tacoma and pickup, you can fix it by the relay harness.*

Figure 5: H4 Harness and Pin-Out Types

This image explains when to use an H4 harness, illustrating standard and non-standard H4 socket pin-out types (Ground, Low Beam+, High Beam+). It also suggests using a relay harness to fix dim or malfunctioning headlights, common in vehicles like Toyota Tacoma and pickup trucks.

### 3. Secure New Headlight:

Insert the LEDUR headlight into the housing and secure it using the original screws. Ensure a snug fit.



Figure 6: Visual Guide to Headlight Installation

This image provides a step-by-step visual guide for headlight installation, showing how to remove the panel screws, open the mask, remove the original light, and then install the new LEDUR headlight.

**4. Reconnect Battery:**

Once the headlights are securely installed and wired, reconnect the vehicle's battery.

**5. Test Functionality:**

Turn on the vehicle's lights to test both high and low beam functions. Adjust alignment if necessary.

## 5. OPERATING INSTRUCTIONS

The LEDUR 4x6 LED Headlights operate similarly to standard vehicle headlights, providing both high and low beam functions.

- **Low Beam:** Provides a focused light pattern for general driving, minimizing glare for oncoming traffic.
- **High Beam:** Offers maximum illumination for enhanced visibility on dark roads or in areas without street lighting.

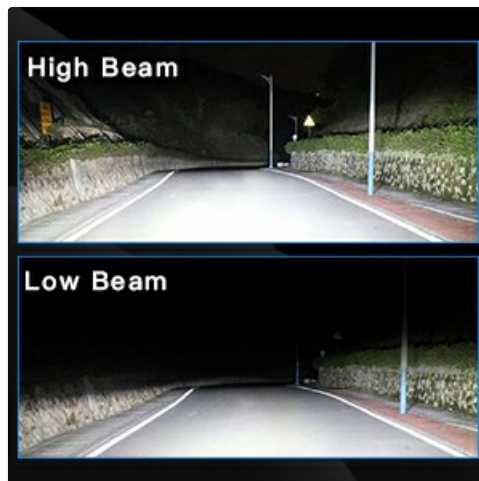


Figure 7: High Beam and Low Beam Illumination

This image demonstrates the difference in road illumination between the high beam (wider and further reach) and low beam (focused, downward light) settings of the LEDUR headlights.



Figure 8: LEDUR Headlight Low Beam vs. High Beam

This image visually compares the light output of the LEDUR headlight in both high beam and low beam modes, showing the increased number of active LED chips for high beam.

## 6. MAINTENANCE

### 6.1. Moisture Removal

If moisture or water accumulates inside the 4x6 LED headlights, follow these steps to remove it:

1. **Step 1:** Remove the breathing cap from the headlight. Store it safely.
2. **Step 2:** Remove the hole paper (if present) and keep it.
3. **Step 3:** Turn on the lamp for 30 minutes to 1 hour. This will allow the moisture to dissipate.
4. **Step 4:** Once all moisture is released, replace the breathing cap and hole paper securely.



### 1. Breathing Hole

IP68, designed to drive away moisture or water contributing to much longer life span

### 2. Heat Dissipation Design

Special heat dissipated design better protect your lighting electrical system

## How to get rid of moisture or water?



### Step 1

Remove the breathing cap and well keep it.



### Step 2

Remove the hole paper and well keep it.



### Step 3

Keep the lamp on for 30 minutes to 1 hour. Put the breathing caps back once moisture or water are totally released.

Figure 9: Heat Sink Design and Moisture Removal

This image details the heat sink design for efficient heat dissipation and provides a three-step visual guide on how to remove moisture or water from the headlight by accessing the breathing cap.

## 6.2. General Care

- Regularly clean the headlight lenses with a soft cloth and mild soap solution to maintain optimal light output.
- Avoid using abrasive cleaners or harsh chemicals that could damage the polycarbonate lens.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Headlights not turning on	Loose wiring connection, blown fuse, incorrect wiring.	Check all wiring connections, inspect vehicle fuses, verify wiring against diagrams (Figure 4, Figure 5).

Problem	Possible Cause	Solution
Dim or malfunctioning headlights	Incompatible vehicle wiring system, voltage drop.	Consider using a relay harness to ensure proper power delivery, especially for vehicles like Toyota Tacoma and pickups (refer to Figure 5).
Moisture inside the lens	Condensation due to temperature changes, breathing cap not sealed.	Follow the moisture removal steps in Section 6.1. Ensure the breathing cap is properly secured.
Incorrect beam pattern (e.g., high beam on when low beam selected)	Incorrect H4 pin configuration.	Refer to the H4 wiring conversion diagrams (Figure 4, Figure 5) to ensure correct pin assignment for your vehicle.

## 8. PRODUCT VIDEO

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Video 1: LEDUR 4x6 LED Headlights Overview

This video provides a visual overview of the LEDUR 4x6 LED Headlights, showcasing their design, features like the aluminum housing and heat sink, IP68 waterproof rating, and demonstrating both high and low beam functionality.

## 9. WARRANTY AND SUPPORT

LEDUR is committed to providing high-quality products and customer satisfaction.

- **Product Replacement:** If a light burns out, LEDUR offers a replacement.
- **Customer Support:** For any questions or concerns regarding the LEDUR 4x6 LED Headlights, please contact LEDUR customer service.

For further assistance, please refer to the official LEDUR store or contact their support channels.

Visit the official LEDUR Store: [LEDUR Store](#)

