BEAMFLY H7 LED Bulb

BEAMFLY H7 LED Bulb User Manual

Model: H7 LED Bulb

1. Product Overview

The BEAMFLY H7 LED Bulb is engineered as a high-performance replacement for standard H7 halogen bulbs in automotive lighting systems. These bulbs deliver an ultra-bright 6500K Xenon white light, significantly enhancing visibility compared to traditional halogen lamps. Designed for ease of use, they feature a 1:1 compact size for direct replacement and a plug-and-play installation process.

Key features include advanced heat dissipation for extended lifespan, a precise beam pattern to prevent glare, and broad compatibility with most vehicle electrical systems.



Image 1.1: The BEAMFLY H7 LED Bulb shown alongside its product packaging, highlighting its modern design and compact form factor.

2. Safety Information

Please read and understand all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always ensure the vehicle's ignition is off and the battery is disconnected before attempting any installation or maintenance.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- Avoid touching the LED chips directly, as oils from skin can reduce their lifespan.
- Do not look directly into the illuminated LED bulb, as the intense light can cause eye strain or damage.
- Ensure the bulbs are securely fastened in their housing to prevent vibration damage.
- Dispose of old bulbs and packaging materials responsibly according to local regulations.

3. Package Contents

Verify that all items are present and in good condition upon opening the package:

- 1 Pair (2) BEAMFLY H7 LED Bulbs

4. Specifications

Attribute	Value
Model	H7 LED Bulb
Voltage	12V
Color Temperature	6500K (Xenon White)
Brightness	16000 Lumen (per pair)
Lifespan	> 60,000 Hours
Heat Dissipation	Aviation Aluminum, High-speed Silent Fan (12000 RPM)
Waterproof Rating	IP68
Design	1:1 Halogen Replacement, Plug-and-Play
Compatibility	Compatible with 99% of vehicle systems (may require additional decoders for sensitive models)
Item Weight	59 g



Image 4.1: Visual representation of the BEAMFLY H7 LED Bulb's compact size and powerful output, detailing its 55MIL LED chip, 6000K color temperature, 50W power, and 24000LM brightness.



Image 4.2: An exploded view illustrating the triple heat dissipation system of the BEAMFLY H7 LED Bulb, including the copper substrate, 12000 RPM turbo cooling fan, and integrative whole aluminum shell.

5. Setup and Installation

The BEAMFLY H7 LED bulbs are designed for a straightforward, plug-and-play installation, closely mimicking the dimensions of standard H7 halogen bulbs for easy fitment.

1. **Preparation:** Ensure your vehicle's engine is off and the headlights are cool. Disconnect the negative terminal of the vehicle's battery for safety.
2. **Locate Bulb:** Identify the location of the existing H7 headlight or fog light bulb in your vehicle's light assembly. This usually involves opening the hood and accessing the back of the headlight unit.
3. **Disconnect and Remove Old Bulb:** Carefully disconnect the electrical connector from the existing H7 bulb. Then, unclip or twist to remove the old halogen bulb from its housing.

4. **Insert New LED Bulb:** Insert the BEAMFLY H7 LED bulb into the housing. Ensure it is seated correctly and securely. The 1:1 design ensures a snug fit without extra adapters.
5. **Connect Power:** Reconnect the vehicle's electrical connector to the BEAMFLY H7 LED bulb. Ensure the connection is firm.
6. **Test Functionality:** Reconnect the vehicle's battery. Turn on your vehicle's lights to verify that the new LED bulbs are functioning correctly and that the beam pattern is appropriate.

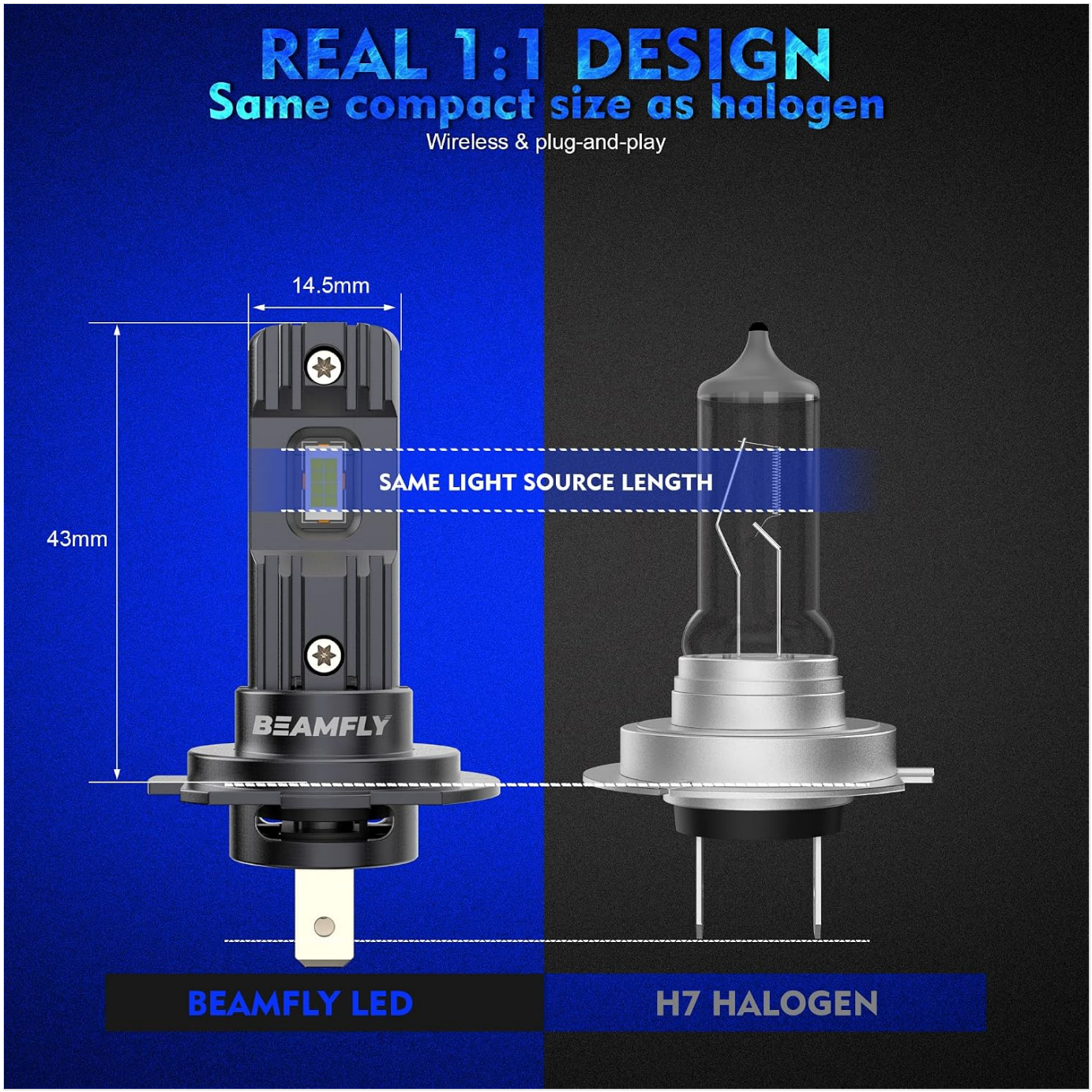

Image 5.1: A side-by-side comparison demonstrating the 1:1 design of the BEAMFLY H7 LED Bulb relative to a standard H7 halogen bulb, highlighting their identical compact size for easy replacement.



Image 5.2: Visual guide to the 2-minute quick installation process, showing the plug-and-play design and the absence of a need for extra adapters or polarity considerations.

6. Operating Instructions

Once properly installed, the BEAMFLY H7 LED bulbs operate seamlessly with your vehicle's existing lighting controls. Simply activate your vehicle's headlights or fog lights as you normally would.

- **Enhanced Visibility:** The 6500K Xenon white light and 16000 Lumen brightness provide a significantly clearer and wider field of view, improving safety during night driving.
- **Focused Beam Pattern:** The precise beam pattern ensures that light is directed effectively onto the road without causing glare to oncoming traffic, illuminating road signs and obstacles clearly.



Image 6.1: A comparison illustrating the superior brightness and extended visibility provided by the BEAMFLY H7 LED Bulb (top) compared to a standard halogen bulb (bottom) on a dark road.



Image 6.2: Demonstrates the wider and farther light distribution of the BEAMFLY LED bulbs compared to the dim and yellowish output of halogen bulbs, enhancing overall road illumination.

7. Maintenance

BEAMFLY H7 LED bulbs are designed for durability and a long lifespan, requiring minimal maintenance.

- **Periodic Inspection:** Occasionally inspect the bulbs and their connections for any signs of looseness or damage.
- **Cleanliness:** While the bulbs are IP68 waterproof, ensure that the fan area (if accessible) remains free of excessive dirt or debris to maintain optimal cooling performance. Use a soft, dry cloth for cleaning.
- **Avoid Harsh Chemicals:** Do not use abrasive cleaners or solvents on the bulb's surface.

8. Troubleshooting

If you encounter issues with your BEAMFLY H7 LED Bulbs, refer to the following common problems and solutions:

- **Bulb Not Lighting Up:**
  - Check all electrical connections to ensure they are secure and properly seated.
  - Verify the vehicle's fuse for the headlight/fog light circuit is intact.
  - Ensure the bulb is correctly inserted into the housing.
- **Flickering or Dashboard Error Message:**
  - Some sensitive vehicle systems (e.g., CANbus systems) may detect the lower power draw of LED bulbs as an error, leading to flickering or dashboard warnings.
  - In such rare cases, an additional CANbus decoder (load resistor) may be required. These are typically sold separately. Contact BEAMFLY support or your retailer for recommendations.
- **Dim Light or Uneven Beam Pattern:**
  - Ensure the bulb is fully seated and correctly oriented within the headlight assembly. Improper seating can affect the beam pattern.
  - Check for any obstructions or dirt on the headlight lens.

9. Warranty and Support

For detailed warranty information, product registration, or technical assistance, please visit the official BEAMFLY website or contact the retailer from whom you purchased the product. Please have your purchase receipt and product model information available when seeking support.

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