

BEAMFLY LED-X2H7SJ-HP-16000LM-FBA

BEAMFLY H7 LED Headlight Bulb User Manual

Model: LED-X2H7SJ-HP-16000LM-FBA

1. PRODUCT OVERVIEW

The BEAMFLY H7 LED Headlight Bulbs are designed to provide superior illumination for automotive applications, serving as a direct replacement for traditional halogen headlights. This kit offers enhanced brightness, a cool white light temperature, and a long operational lifespan, improving visibility and driving safety.

Key features include:

- Up to 500% brighter than standard halogen headlights.
- Maximum luminous flux of 16000 lumens per pair.
- 6000K cool white color temperature for clear visibility.
- Advanced multi-channel heat management system for extended lifespan.
- Precision-engineered beam pattern with anti-glare cut-off line.
- 360° adjustable beam and rotatable, removable aluminum adapter for optimal light output.
- IP68 waterproof rating.



Image: Two BEAMFLY H7 LED headlight bulbs, showcasing their design and the product packaging. These bulbs are designed for automotive lighting applications.

2. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- 2 x BEAMFLY H7 LED Headlight Bulbs
- 1 x Installation Manual (this document)

3. SAFETY INFORMATION

Before installation or operation, please read and understand all safety warnings and instructions. Failure to do so may result in electric shock, injury, or damage to the product or vehicle.

- Always disconnect the vehicle's battery before performing any electrical work.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Ensure the vehicle's engine is off and cooled down before handling headlight components.
- Avoid touching the LED chips directly, as oils from your skin can reduce their lifespan.

- Verify product compatibility with your vehicle's make and model before purchase and installation. Specific adapters may be required for certain car models.
- Consult a professional mechanic if you are unsure about any part of the installation process.
- Check local regulations regarding LED headlight usage, as laws may vary.

4. SETUP AND INSTALLATION

The BEAMFLY H7 LED bulbs are designed for relatively straightforward installation, but some vehicle models may require specific considerations due to the integrated fan unit and larger size compared to traditional halogen bulbs.

4.1 Pre-Installation Check

- Confirm the H7 bulb type is correct for your vehicle's low beam or high beam application.
- Inspect the headlight housing for sufficient space, especially behind the bulb, to accommodate the LED bulb's cooling fan and heat sink. Some vehicles may require minor modifications to the dust cap or housing.
- Ensure the vehicle's electrical system is 12V.

4.2 Installation Steps

1. **Access Headlight Assembly:** Open the hood and locate the back of the headlight assembly. Depending on your vehicle, you may need to remove air ducts, battery covers, or other components to gain access.
2. **Remove Old Halogen Bulb:** Disconnect the electrical connector from the existing H7 halogen bulb. Unclip or twist to remove the old bulb from its socket.
3. **Separate LED Bulb Base:** The BEAMFLY H7 LED bulb features a removable adapter base. Gently twist and separate the mounting collar (base) from the main LED bulb body. This allows for easier installation into the headlight housing.
4. **Install Mounting Collar:** Insert the separated mounting collar into the headlight housing, securing it with the original spring clip or retaining mechanism. Ensure it is firmly seated.
5. **Insert LED Bulb:** Carefully insert the main LED bulb body into the mounting collar. Align the bulb's keyways with the collar's slots and twist to lock it into place. Ensure the LED chips are facing horizontally (3 o'clock and 9 o'clock positions) for optimal beam pattern.
6. **Adjust Beam Angle (if necessary):** The BEAMFLY H7 LED bulbs feature a 360° rotatable adapter. If the beam pattern is not optimal after installation, you can slightly rotate the bulb within its base to achieve the desired light output and cut-off line. This adjustment is crucial for preventing glare to oncoming traffic.
7. **Connect Electrical Connector:** Plug the vehicle's original H7 electrical connector into the connector on the BEAMFLY LED bulb. Ensure a secure connection.
8. **Test Functionality:** Before reassembling the vehicle, turn on your headlights to verify that both LED bulbs illuminate correctly. Check the beam pattern against a wall to ensure a clear cut-off line and proper alignment.
9. **Secure Dust Caps/Covers:** If the original dust caps do not fit due to the fan unit, consider purchasing aftermarket extended dust caps or making modifications to ensure the headlight housing remains sealed from moisture and dust.

MIMIC HALOGEN FILAMENT

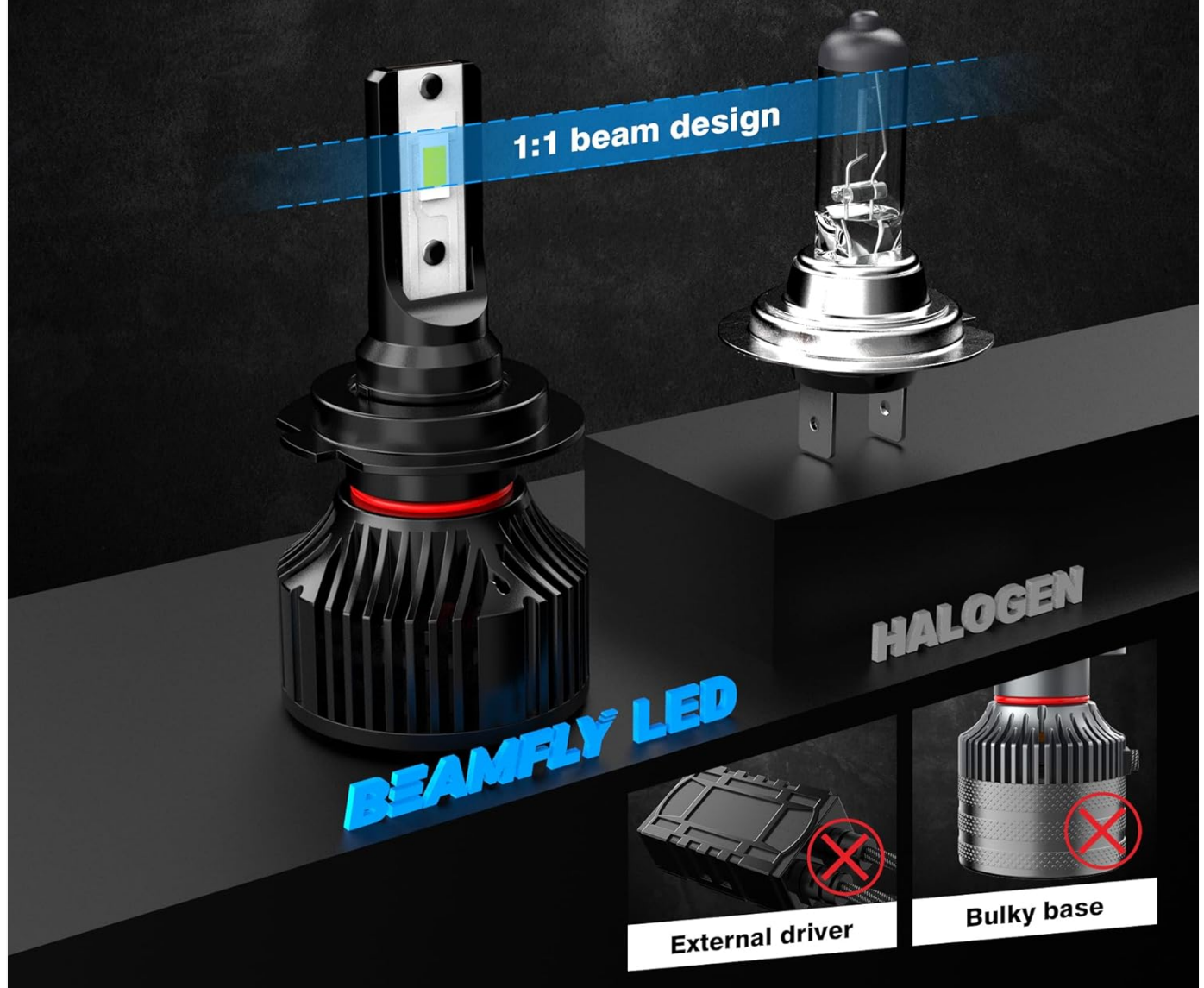


Image: This image illustrates the 1:1 beam design of the BEAMFLY LED bulb, mimicking the halogen filament for a precise light pattern. It also highlights the compact design without external drivers or bulky bases.

REMOVABLE ADAPTER AND ADJUSTABLE BEAM

The more focused light output and perfect beam pattern can be achieved through a simple angle adjustment of the bulb adapter



Image: A visual representation of the BEAMFLY LED bulb's 360-degree adjustable and removable adapter, allowing for precise beam pattern alignment after installation.

5. OPERATING INSTRUCTIONS

Once installed, the BEAMFLY H7 LED headlight bulbs operate like your vehicle's original headlights. Simply turn on your vehicle's headlights using the standard controls.

- **Low Beam:** Activates the standard driving lights for general illumination.
- **High Beam:** Activates the full brightness for maximum visibility on unlit roads.

The LED bulbs are designed to provide instant full brightness without warm-up time, offering immediate improved visibility.

PREFECT BEAM PATTERN

UPGRADED
CSP CHIPS



HALOGEN

BEAMFLY LED



Image: This image compares the beam pattern of a traditional halogen bulb with that of a BEAMFLY LED bulb, highlighting the superior clarity and brightness of the LED light.

BRIGHTER AND SAFER

No uneven pattern, not blind on coming traffic



BEAMFLY



Others

Image: A visual demonstrating the "Brighter and Safer" aspect of BEAMFLY LED headlights, showing an even light pattern that illuminates the road effectively without causing glare to other drivers.



Image: A direct comparison of road illumination at night, demonstrating that BEAMFLY LED headlights provide significantly brighter and more extensive coverage than standard halogen lights.

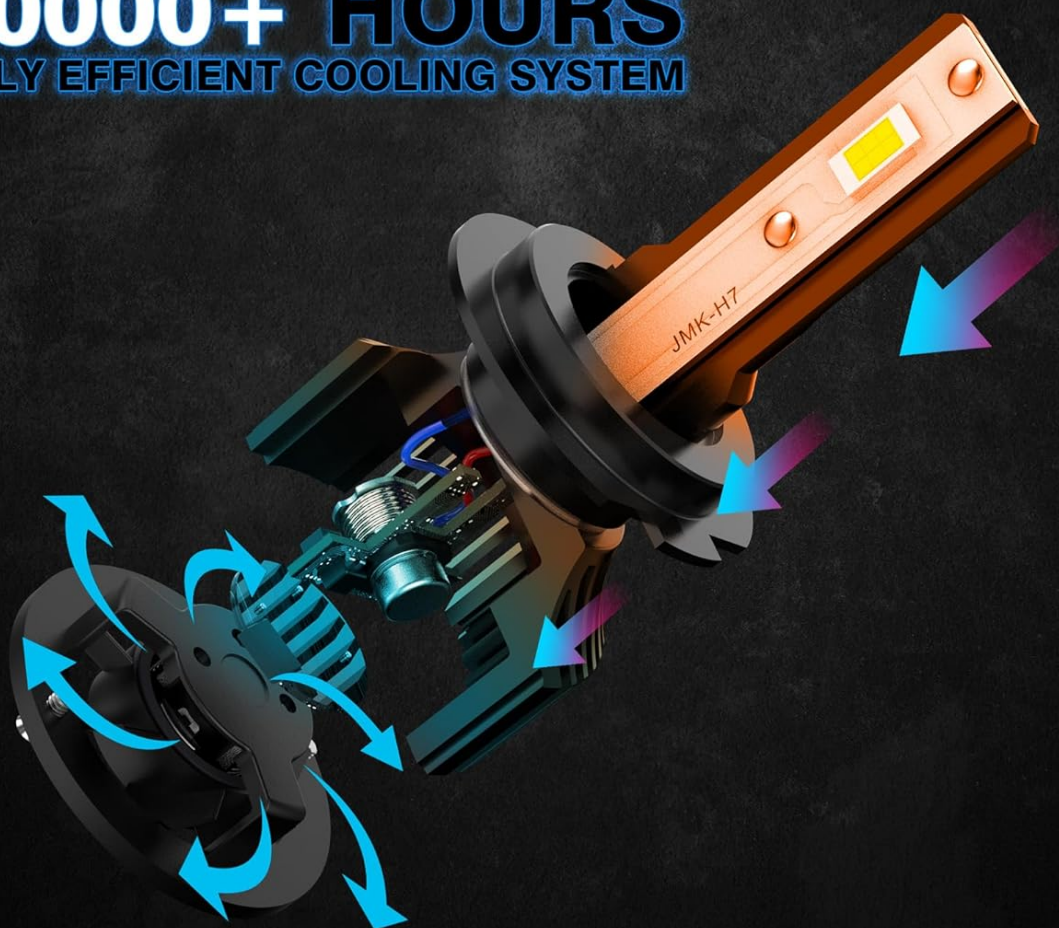
6. MAINTENANCE

BEAMFLY H7 LED headlight bulbs are designed for long-term, maintenance-free operation. However, following these general guidelines can help ensure optimal performance and longevity:

- **Keep Clean:** Periodically inspect the headlight lenses for dirt, dust, or debris. Clean with a soft, damp cloth and mild soap if necessary. Avoid abrasive cleaners.
- **Check Connections:** Ensure electrical connections remain secure and free from corrosion.
- **Inspect Cooling System:** The integrated fan is crucial for heat dissipation. Ensure the fan area is not obstructed by dirt or debris.
- **Avoid High Pressure Washing:** While the bulbs are IP68 rated, avoid directing high-pressure water jets directly at the headlight assembly, especially around the bulb's rear, to prevent water ingress.

100000+ HOURS

HIGHLY EFFICIENT COOLING SYSTEM



Aluminum Material Body



Copper Plate



12000 RPM Silent Turbofan

Image: An exploded view showing the highly efficient cooling system of the BEAMFLY LED bulb, which includes an aluminum material body, a copper plate for heat transfer, and a 12000 RPM silent turbofan, contributing to its 100,000+ hour lifespan.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Bulb does not light up.	<ul style="list-style-type: none">Loose electrical connection.Incorrect polarity (for some vehicles).Blown fuse.Defective bulb.	<ul style="list-style-type: none">Check and secure all electrical connections.Try reversing the plug if the bulb doesn't light up initially.Check the vehicle's fuse box for a blown headlight fuse.If other solutions fail, the bulb may be defective; contact support.
Flickering or intermittent light.	<ul style="list-style-type: none">Loose connection.CANbus incompatibility (if vehicle has a CANbus system).	<ul style="list-style-type: none">Ensure all connections are tight.A CANbus decoder/resistor may be required for vehicles with sensitive CANbus systems to prevent flickering or error messages. (Note: Product description states "incompatible with CANbus" for 16000 lumens, so this is a critical point).
Poor beam pattern or glare.	<ul style="list-style-type: none">Incorrect bulb orientation.Improper adjustment of the adapter.	<ul style="list-style-type: none">Ensure the LED chips are facing horizontally (3 and 9 o'clock).Utilize the 360° adjustable adapter to fine-tune the beam pattern until a clear cut-off line is achieved.
Radio interference.	<ul style="list-style-type: none">Electromagnetic interference (EMI) from the LED driver.	<ul style="list-style-type: none">Ensure the LED driver is positioned away from the radio antenna or sensitive electronics.Consider adding ferrite rings to the power cables if interference persists.

8. SPECIFICATIONS

Feature	Specification
Model Number	LED-X2H7SJ-HP-16000LM-FBA
Bulb Type	H7 LED
Power	50W/Kit
Lumen Output	16000LM/Pair
Color Temperature	6000K Cool White

Feature	Specification
Color Rendering Index (CRI)	Ra90+
Voltage	12 Volts
Waterproof Rating	IP68
Operating Temperature	-40°C to +120°C (-40°F to +248°F)
Lifespan	>100,000 hours
Material	Aluminum Body, Copper Plate
Cooling System	Integrated 12000 RPM Turbofan
Adjustability	360° Rotatable and Removable Adapter
Compatibility Note	Incompatible with CANbus systems without additional decoder. Specific adapters may be required for certain car models.

9. WARRANTY AND SUPPORT

BEAMFLY products are manufactured to high-quality standards. For warranty information, technical support, or assistance with installation, please refer to the contact information provided on the product packaging or the official BEAMFLY website. Keep your purchase receipt as proof of purchase for any warranty claims. For further assistance, you may contact the seller directly through the platform where the product was purchased.

