BEAMFLY LED-Z4H7-ZC-16000LM-FBA

BEAMFLY H7 LED Headlight Bulbs User Manual

Model: LED-Z4H7-ZC-16000LM-FBA

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your BEAMFLY H7 LED Headlight Bulbs. Please read this manual thoroughly before attempting installation or use to ensure proper function and safety. Retain this manual for future reference.

2. Safety Information

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent electrical shock or damage.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure the LED bulbs are securely fastened in the headlight assembly to prevent vibration-induced damage or dislodgement.
- Avoid touching the LED chips directly, as oils from your skin can reduce their lifespan and performance.
- Do not look directly into the illuminated LED bulb, as the intense light can cause eye strain or temporary vision impairment.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.

3. Package Contents

Verify that all items are present in the package:

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

4. Product Features

The BEAMFLY H7 LED Headlight Bulbs offer the following characteristics:

- **Power:** 50W per set
- **Lumen Output:** Up to 16000LM per pair
- **Color Temperature:** 6000K cool white, providing clear visibility.

- **Brightness:** Approximately 350% brighter than standard halogen headlights.
- **Beam Pattern:** Features a 360° adjustable beam for optimal light distribution.
- **Adapter:** Rotatable and removable adapter for versatile fitment.
- **Waterproof Rate:** IP68, ensuring durability in various weather conditions.
- **Operating Temperature:** -40°C to +120°C.
- **Longevity:** Over 55,000 hours of operational life.
- **Cooling System:** Efficient cooling system for enhanced lifespan.
- **Beam Design:** Engineered to produce a wider angle and accurately glare-reduced light beam.

5. Setup and Installation

The BEAMFLY H7 LED Headlight Bulbs are designed for a quick and straightforward plug-and-play installation, similar to replacing a halogen bulb. No external adapter is required, and the bulbs feature non-polarity for simplified connection.

1. **Preparation:** Ensure the vehicle's engine is off and the battery is disconnected. Allow existing halogen bulbs to cool down if recently used.
2. **Access Headlight:** Locate the access point for your vehicle's headlight assembly. This may involve opening the hood or removing specific covers.
3. **Remove Old Bulb:** Disconnect the power connector from the existing H7 halogen bulb. Carefully unclip or twist to remove the old bulb from its housing.
4. **Install LED Bulb:** Insert the BEAMFLY H7 LED bulb into the headlight housing. Ensure it is seated correctly and securely fastened. The 1:1 size design facilitates direct replacement.



Image: BEAMFLY LED bulb (left) compared to a halogen bulb (right), illustrating the identical size for direct fitment. The LED bulb integrates all components without external drivers or bulky bottoms.

5. **Connect Power:** Reconnect the vehicle's power connector to the BEAMFLY LED bulb. The non-polarity design simplifies this step.



Image: Visual guide demonstrating the simple 3-minute installation process, emphasizing the plug-and-play nature and absence of external adapters.

6. **Test Lights:** Reconnect the vehicle's battery and test the headlights to ensure they function correctly.
7. **Adjust Beam (if necessary):** The bulbs feature a 360° adjustable beam. If the light pattern is not optimal, carefully rotate the bulb within its housing to achieve the desired beam pattern.



Image: Detailed view of the BEAMFLY LED bulb's upgraded CSP chips, which contribute to a precise and effective beam pattern, shown in comparison to a halogen light pattern.

6. Operating Instructions

Once properly installed, the BEAMFLY H7 LED Headlight Bulbs operate like your vehicle's standard headlights. Turn on your vehicle's lights as usual. The LED bulbs will provide a bright, cool white light for improved visibility.

- **Beam Alignment:** Ensure your headlights are properly aimed to provide maximum road illumination without dazzling oncoming traffic. If necessary, have your headlights professionally aligned after installation.



Image: A visual comparison of road illumination at night, demonstrating the superior brightness and coverage of BEAMFLY LED headlights compared to traditional halogen lights.



Image: An infographic comparing the light output of BEAMFLY LED bulbs (16000 Lumens, whiter and brighter) against halogen bulbs (3200 Lumens, yellowish and dimmer), highlighting the performance advantage.

7. Maintenance

BEAMFLY H7 LED Headlight Bulbs are designed for long-term, maintenance-free operation. However, periodic checks can help ensure optimal performance:

- **Cleaning:** Periodically inspect the headlight lens and the visible part of the bulb for dirt, dust, or debris. Gently clean with a soft, dry, lint-free cloth. Avoid abrasive cleaners or solvents.
- **Connections:** Occasionally check the electrical connections to ensure they remain secure and free from corrosion.
- **Cooling System:** The bulbs feature an integrated rapid cooling system. Ensure the area around the bulb's base is not obstructed to allow for proper heat dissipation.

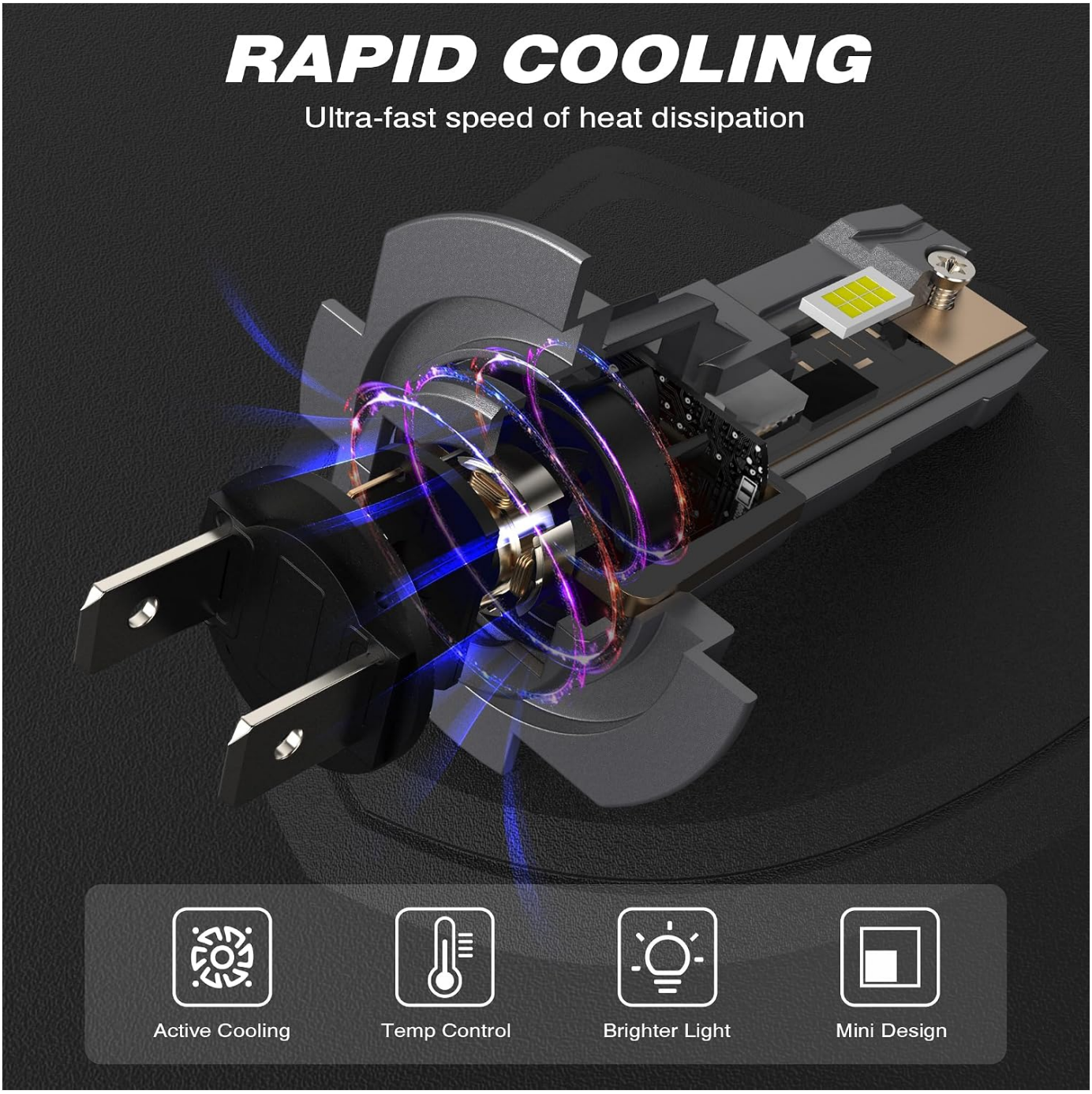


Image: An internal view of the BEAMFLY LED bulb's rapid cooling system, detailing the active cooling components and heat dissipation design for extended lifespan.

There are no user-serviceable parts inside the LED bulb unit. Do not attempt to disassemble the bulb.

8. Troubleshooting

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

Problem	Possible Cause	Solution
LED light flickers or gives a CANbus error.	Some vehicle models' CANbus systems may detect the lower power draw of LEDs as a fault.	An additional CANbus decoder (load resistor) may be required. These are typically sold separately.
Bulbs do not turn on.	Loose connection, blown fuse, or insufficient power.	Check all electrical connections for security. Inspect the vehicle's fuse box for a blown headlight fuse. Ensure the vehicle's battery is fully charged.

Problem	Possible Cause	Solution
Light output is dim.	Poor connection or dirty headlight lens.	Verify connections are secure. Clean the headlight lens and the bulb surface.
Incorrect beam pattern.	Bulb not correctly oriented in the housing.	Adjust the 360° rotatable adapter to achieve the correct beam pattern. Refer to your vehicle's manual for proper headlight aiming.

9. Specifications

Brand	BEAMFLY
Model Number	LED-Z4H7-ZC-16000LM-FBA
Light Source Type	Light Emitting Diode (LED)
Wattage	50 Watts (per set)
Voltage	12 Volts
Light Output Maximum	16000 Lumens (per pair)
Color Temperature	6000 Kelvin
Light Color	6000K-6500K White
Operating Life	55000 Hours
Waterproof Rate	IP68
Fit Type	Universal Fit
Auto Part Position	Front
Number of Pieces	2

10. Warranty and Support

For information regarding product warranty, technical support, or any other inquiries, please refer to the contact information provided with your purchase or visit the official BEAMFLY website. Please have your model number (LED-Z4H7-ZC-16000LM-FBA) available when contacting support.

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