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FAHREN H11/H8/H9

FAHREN H11/H8/H9 LED Light Bulb Instruction Manual

Model: H11/H8/H9

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your FAHREN H11/H8/H9 LED Light Bulbs. These bulbs are designed to provide superior illumination with a 6500K cool white light, high brightness, and a long operational lifespan.

Package Contents

- H11/H9/H8 Fog Light Bulb × 2
- Allen Wrench × 2
- User Manual × 1



Image 1.1: Contents of the FAHREN H11/H8/H9 LED Light Bulb package, including two bulbs, an Allen wrench, and the user manual.

2. SPECIFICATIONS

Feature	Detail
Brand	FAHREN
Model	H11/H8/H9
Brightness	40,000 Lumens (total)
Color Temperature	6500K Cool White
Power	60W (total)
Operating Life	Over 60,000 Hours

Feature	Detail
Waterproof Rating	IP68
Voltage	12 Volts
Heat Sink Design	Hollow-carved, Aviation Aluminum Body
Cooling Fan	20,000 RPM Turbo Cool Fan
CANbus Ready	Yes (for 99% of vehicles)
Application	Fog Lights or Running Board Light Assemblies

3. COMPATIBILITY AND FITMENT

These FAHREN LED bulbs are designed to be compatible with H11, H8, and H9 bulb types. They are CANbus-ready for approximately 99% of vehicles, minimizing error messages or flickering.

To ensure correct fitment for your specific vehicle, it is recommended to:

1. Consult your vehicle's owner's manual.
2. Check the part number on your original bulbs.
3. Utilize online fitment guides by entering your vehicle's year, make, and model.

Note: Some sensitive vehicle models may require an additional CANbus decoder to prevent issues. If you experience flickering or error messages, contact FAHREN support for assistance.



Image 3.1: Guide on how to verify bulb fitment using online tools, both on mobile and desktop platforms.

4. INSTALLATION

The FAHREN H11/H8/H9 LED Light Bulbs are designed for a quick and straightforward installation, typically taking around 5 minutes per side. Their 1:1 mini design ensures a perfect fit in most factory housings without modifications.

Installation Steps:

1. **Safety First:** Ensure your vehicle's engine is off and the lights are cool before beginning. Disconnect the negative terminal

of your vehicle's battery for added safety.

2. **Locate Existing Bulb:** Identify the location of your current H11/H8/H9 halogen bulb in the headlight or fog light assembly.
3. **Remove Old Bulb:** Disconnect the wiring harness from the old bulb. Twist or unclip the old bulb from its housing and carefully remove it.
4. **Insert New LED Bulb:** Insert the FAHREN LED bulb into the housing. Ensure it is seated correctly and securely. The bulbs feature a non-polarity design, meaning they can be inserted in either orientation.
5. **Connect Wiring:** Connect the wiring harness to the new LED bulb.
6. **Test Functionality:** Reconnect the vehicle battery. Turn on your vehicle's lights to test the new LED bulbs.
7. **Adjust Beam Pattern (if necessary):** The FAHREN LED bulbs are 360-degree adjustable. If the beam pattern is not optimal, use the included Allen wrench to slightly rotate the bulb within its collar until the desired beam pattern is achieved. Ensure the light output is focused and does not glare at oncoming traffic.

FAHREN

EFFICIENT COOLING SYSTEM

Top Automotive-Grade LED
Enhance light efficiency up to 98%, provide more than 60,000 hours lifespan.

Aviation-Grade Aluminum Body
Premium aviation aluminum material offers excellent rigidity and heat dissipation.

Unique Hollow-carved Heat Sink
Efficiently improve the heat dissipation efficiency.

20,000RPM Silent Turbofan
Powerful turbofan with 20,000RPM provides super cooling ability.

The graphic features a detailed 3D cutaway of the LED bulb. A yellow LED chip is visible at the top. Blue arrows indicate air being drawn in and pushed out by the turbofan at the base. Red arrows point away from the heat sink area. The background is dark with a blue and white diagonal stripe in the top left corner.

Image 4.1: Visual guide for the simple plug-and-play installation of the LED bulbs, highlighting the mini design and standard plug.



Image 4.2: Illustration of the 360-degree adjustable collar, allowing for precise beam pattern alignment after installation.

5. OPERATION

Once installed, operating your FAHREN H11/H8/H9 LED Light Bulbs is the same as operating your vehicle's standard lighting system. Simply turn on your vehicle's fog lights or running board lights as you normally would.

These bulbs provide a super bright 40,000LM output with a 6500K cool white light, significantly enhancing visibility compared to traditional halogen bulbs.



Image 5.1: Visual comparison demonstrating the increased brightness and clearer light output of FAHREN LED fog lights compared to standard halogen bulbs.



Image 5.2: Another comparison showing the enhanced visibility provided by FAHREN LED bulbs over halogen bulbs in an outdoor setting.

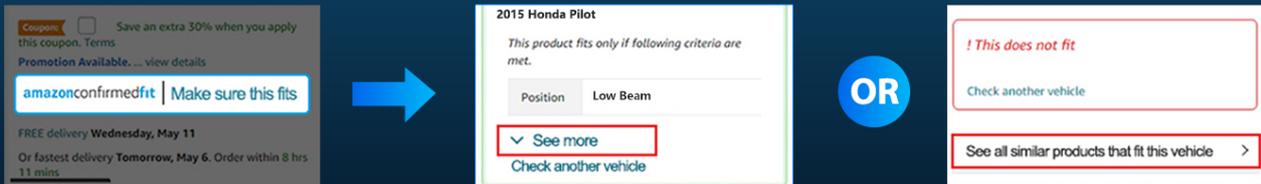
6. MAINTENANCE

The FAHREN H11/H8/H9 LED Light Bulbs are designed for durability and long-term performance, requiring minimal maintenance.

Key Features for Longevity:

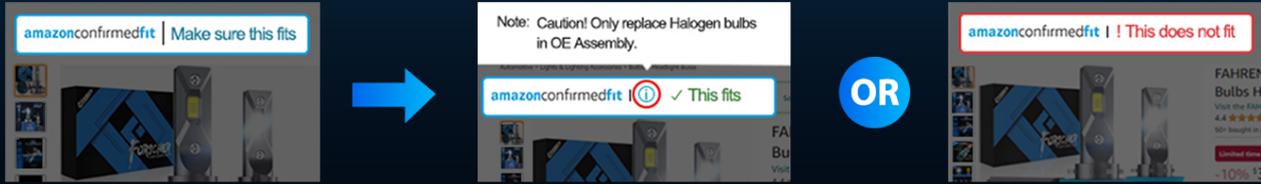
- **Extended Lifespan:** Engineered for over 60,000 hours of operation, significantly reducing the need for frequent replacements.
- **Efficient Cooling System:** Features a hollow-carved aviation aluminum body and a 20,000 RPM turbo cool fan to effectively dissipate heat, ensuring stable performance and extended life.
- **IP68 Waterproof Rating:** Provides protection against water and dust ingress, making the bulbs suitable for various weather conditions including rain, snow, fog, and dusty environments.
- **All-in-One Aluminum Body:** The robust housing is made from top-grade materials, offering high rigidity and heat resistance, contributing to overall durability.

01 MOBILE FITMENT GUIDE



1. Please enter the Year, Make, Model of your vehicle and click "Check Fit"

2. Please double-check the NOTE and click "See more" to confirm.



02 DESKTOP FITMENT GUIDE

Image 6.1: Illustration of the durable all-in-one aluminum body, emphasizing its rigidity and heat resistance for long-term performance.



Image 6.2: Detailed view of the 20,000 RPM silent turbofan, which provides efficient cooling to maintain bulb performance and extend lifespan.



Image 6.3: Visual representation of the IP68 waterproof rating, indicating the bulb's resilience in rainy, snowy, foggy, and dusty conditions.



Image 6.4: Graphic demonstrating the extended lifespan of over 60,000 hours, reducing the need for frequent bulb replacements.

7. TROUBLESHOOTING

If you encounter any issues after installing your FAHREN LED bulbs, refer to the following common troubleshooting tips:

- **Flickering or Error Messages:** While these bulbs are CANbus-ready for most vehicles, some highly sensitive models may detect the lower power draw of LED bulbs as an error. In such cases, an additional CANbus decoder (resistor) may be required. Contact FAHREN support for recommendations.
- **Bulb Not Lighting Up:**
 - Ensure the wiring harness is securely connected.
 - Verify the bulb is correctly seated in the housing.
 - Check vehicle fuses related to the lighting system.
 - Due to the non-polarity design, the bulb should work in either orientation. However, double-check connections.
- **Incorrect Beam Pattern/Glare:** Use the included Allen wrench to adjust the 360-degree rotatable collar of the bulb. Rotate it slightly until the beam pattern is properly aligned and focused, avoiding glare for other drivers.

FAHREN

FIT 98% VEHICLES

✓ **NO-POLARITY**

✓ **NO FLICKER**

✓ **NO-WARNING**



Note

Only certain special sensitive vehicle models will require a decoder. Please reach out to FAHREN for assistance.

Image 7.1: Information regarding CANbus compatibility, indicating that while most vehicles are supported, some may require a decoder to prevent flickering or warning lights.

8. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official FAHREN website or contact their customer service directly. Details are typically provided on the product packaging or the manufacturer's official channels. When contacting support, please have your product model (H11/H8/H9) and purchase details available.

