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› [FAHREN](#) /

› [FAHREN H11/H8/H16 LED Driving Fog Light Bulbs User Manual](#)

FAHREN QH11KOYA3I

FAHREN H11/H8/H16 LED Driving Fog Light Bulbs User Manual

Model: QH11KOYA3I | Brand: FAHREN

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your FAHREN H11/H8/H16 LED Driving Fog Light Bulbs. These bulbs are designed to offer enhanced visibility with a 400% brighter output compared to standard halogen bulbs, featuring a 6500K cool white light and a focused beam pattern to improve driving experience without causing glare to other drivers.



Image 1.1: FAHREN H11/H8/H16 LED Driving Fog Light Bulbs.

2. SPECIFICATIONS

| Feature | Specification |
|--------------|---------------|
| Brand | FAHREN |
| Model Number | QH11KOYA3I |
| Brightness | 12000 Lumen |
| Wattage | 80 Watts |

| Feature | Specification |
|--------------------|--|
| Color Temperature | 6500K Cool White |
| Operating Life | Up to 50,000 Hours |
| Voltage | 12 Volts |
| Auto Part Position | Front |
| Product Dimensions | 5.5 x 4.72 x 1.97 inches |
| Item Weight | 4.2 ounces |
| Material | Aviation Aluminum Body |
| Cooling System | Hollow-carved heat sink design |
| Installation | Plug-and-Play, Wireless Design, 360° adjustable adapter ring |
| Compatibility | Compatible with 98% of vehicle's computer systems |

Image 2.1: LED Bulb Dimensions and Beam Pattern Comparison.



Image 2.2: 1:1 Mini Design Comparison.

3. SETUP AND INSTALLATION

The FAHREN H11/H8/H16 LED fog light bulbs are designed for a quick and easy installation, typically taking only 5 minutes. No special tools are required, and they are a direct plug-and-play replacement for your existing halogen bulbs.

3.1. Compatibility Check

Before installation, it is crucial to confirm that these bulbs are compatible with your vehicle. While they fit 95% of vehicles, the filter system may not always be up-to-date. Refer to your vehicle's user manual or use an online "car bulb finder" to confirm the correct model (H11/H8/H16) for your fog lights or Daytime Running Lights (DRL).



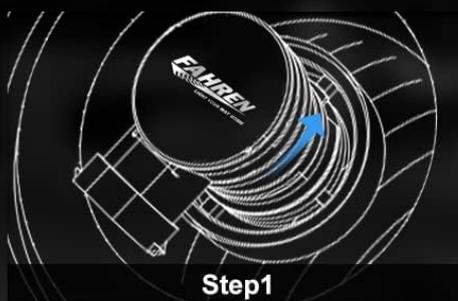
Image 3.1: Vehicle Fitment Guide.

3.2. Installation Steps

1. Locate your vehicle's fog light housing.
2. Carefully remove the existing halogen bulb from its socket.
3. Insert the FAHREN LED bulb into the housing. The 1:1 design ensures a perfect fit without modification.
4. Connect the LED bulb's connector to your vehicle's factory socket. The wireless design simplifies this step.
5. If beam adjustment is needed, hold the **lamp body** to rotate the bulb. **Do not twist the connector**, as this can cause damage. The 360° adjustable adapter ring allows for precise beam alignment.
6. Test the lights to ensure proper function and beam pattern.

5-MIN EASY INSTALLATION

NO TOOLS NEEDED, PLUG-N-PLAY
Perfectly fit into your housing and
factory sockets without modification.



Please hold the lamp body to rotate if you need adjust beam,
do not twist the connector.

Image 3.2: Correct Installation Technique.

4. OPERATING INSTRUCTIONS

Once installed, your FAHREN LED fog light bulbs will provide a significantly brighter and clearer light output compared to traditional halogen bulbs. The 6500K cool white light enhances visibility, and the focused beam design ensures light is projected effectively without scattering or blinding oncoming traffic.

- **Enhanced Brightness:** Experience 400% brighter illumination, extending your lighting range and providing a clearer view of the road.
- **Optimal Beam Pattern:** The 1:1 design with a focused beam ensures a wider and further lighting area, eliminating dark spots and glare.
- **Cool White Light:** The 6500K color temperature provides a crisp, cool white light that mimics natural daylight, reducing eye strain during night driving.

Image 4.1: Brightness Comparison: FAHREN LED vs. Halogen.

Image 4.2: Real-world Night Visibility Comparison.



Image 4.3: Visual Comparison of FAHREN LED vs. Halogen Light Output.



Image 4.4: Focused Beam Technology.

5. MAINTENANCE

FAHREN LED fog light bulbs are designed for durability and minimal maintenance, offering a lifespan of up to

50,000 hours. Key features contribute to their longevity:

- **Superior Cooling:** The aviation aluminum body and hollow-carved heat sink design provide excellent heat dissipation, preventing overheating and extending bulb life.
- **Robust Construction:** These bulbs are built to withstand harsh environmental conditions, including high temperatures (up to 248°F) and low temperatures (down to -40°F), and offer waterproof and dustproof performance.
- **Built-in Driver:** The integrated driver ensures stable operation and compatibility with most vehicle systems, reducing the risk of errors or flickering.

No routine maintenance is typically required for the bulbs themselves. Ensure the bulb housing remains clean and free of debris to maximize light output and cooling efficiency.

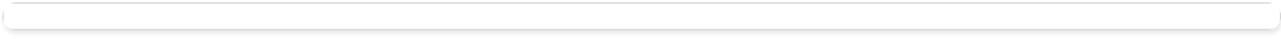


Image 5.1: Durability in Harsh Environments.

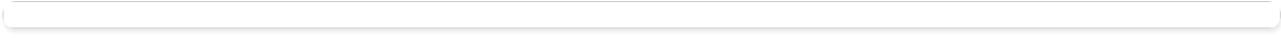


Image 5.2: Product Advantages and Design Features.

6. TROUBLESHOOTING

- **Bulbs Not Lighting Up:**
 - Ensure the connectors are securely plugged in.
 - Check your vehicle's fuse box for any blown fuses related to the fog lights.
 - Verify that the bulb type (H11/H8/H16) is correct for your vehicle's application.
- **Flickering or Error Messages:**
 - While FAHREN LED bulbs are compatible with 98% of vehicle computer systems without error, some sensitive vehicles may still require a CANbus decoder to prevent flickering or dashboard error messages. If you experience these issues, consider installing a compatible CANbus decoder (sold separately).
 - Ensure the bulb is correctly seated and the wiring is not loose.
- **Improper Beam Pattern or Glare:**
 - Adjust the bulb's orientation within the housing by rotating the lamp body (not the connector) using the 360° adjustable adapter ring until the desired beam pattern is achieved.
 - Ensure the bulb is fully seated and not obstructed.
- **Damage During Installation:**
 - Always hold the **lamp body** when rotating the bulb for adjustment. Twisting the connector can damage the internal wiring or the bulb itself.

7. WARRANTY AND SUPPORT

Specific warranty details are not available in the provided product information. For warranty claims, technical support, or further assistance, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

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