

FAHREN H1

FAHREN H1 LED Fog Light Bulbs User Manual

Model: H1

INTRODUCTION

Thank you for choosing FAHREN H1 LED Fog Light Bulbs. These bulbs are designed to provide enhanced visibility and a modern aesthetic for your vehicle's fog lights. Featuring a compact 1:1 mini design, these bulbs offer easy installation, high brightness, and a long lifespan. This manual provides essential information for the proper installation, operation, and maintenance of your new LED fog light bulbs.



Image: A pair of FAHREN H1 LED fog light bulbs displayed next to their product packaging.

SAFETY INFORMATION

- Always ensure your vehicle's engine is off and the battery is disconnected before attempting any electrical work.
- Wear appropriate safety gear, such as gloves and eye protection, during installation.
- Avoid touching the LED chips directly, as oils from your skin can reduce their lifespan.
- Ensure bulbs are securely seated in the housing to prevent moisture ingress and vibration damage.
- If you are unsure about the installation process, consult a qualified automotive technician.

PACKAGE CONTENTS

Verify that all items are present in your package:

- 2 x FAHREN H1 LED Bulbs
- 1 x User Manual (this document)
- 1 x Pair of Cotton Gloves



Image: The package contents including two H1 LED bulbs, a user manual, and cotton gloves.

SPECIFICATIONS

Feature	Specification
Bulb Type	H1
Brightness	Up to 30,000 Lumens per set (800% brighter than halogen)
Color Temperature	6500K Cool White
Voltage	12 Volts
Lifespan	Over 60,000 Hours
Waterproof Rating	IP68
Design	1:1 Mini Size (Halogen equivalent), Non-Polarity, Plug-N-Play
Cooling System	Aviation Aluminum Body, High-speed Cooling Fan, Copper Baseboard
CANbus Compatibility	90%+ vehicles (CANbus ready)



Image: A visual summary of the bulb's key features including brightness, color temperature, lumen output, and waterproof rating.

INSTALLATION GUIDE

The FAHREN H1 LED bulbs feature a 1:1 mini design for direct replacement of your original halogen bulbs without the need for additional adapters or modifications. The installation process is typically quick and straightforward.

Preparation:

1. Ensure your vehicle is turned off and the parking brake is engaged.
2. Disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
3. Locate your vehicle's fog light housing. Access may vary by vehicle model (e.g., from under the hood, behind the wheel well liner).
4. Wear the provided cotton gloves to avoid touching the LED chips.

Step-by-Step Installation:

1. **Remove Old Bulb:** Carefully disconnect the wiring harness from the existing halogen fog light bulb. Then, unclip or twist to remove the old bulb from its housing.
2. **Insert LED Bulb:** Insert the FAHREN H1 LED bulb into the fog light housing. Due to its 1:1 mini design and non-polarity feature, it should fit directly into the socket. Ensure it is fully seated and aligned correctly.
3. **Secure the Bulb:** Reinstall any factory latches or clips to secure the LED bulb firmly in place.
4. **Connect the Plug:** Connect the vehicle's original wiring harness to the FAHREN LED bulb's connector. The non-polarity design means it can be plugged in either way.
5. **Test:** Reconnect your vehicle's battery. Turn on your fog lights to test the new LED bulbs. If they do not light up, refer to the Troubleshooting section.

3-MIN EASY INSTALLATION

- ✓ No Adapter Required
- ✓ Plug-N-Play
- ✓ NO Noise



Image: A visual guide demonstrating the three simple steps for installing the H1 LED bulbs: insert, reinstall latch, and connect plug.

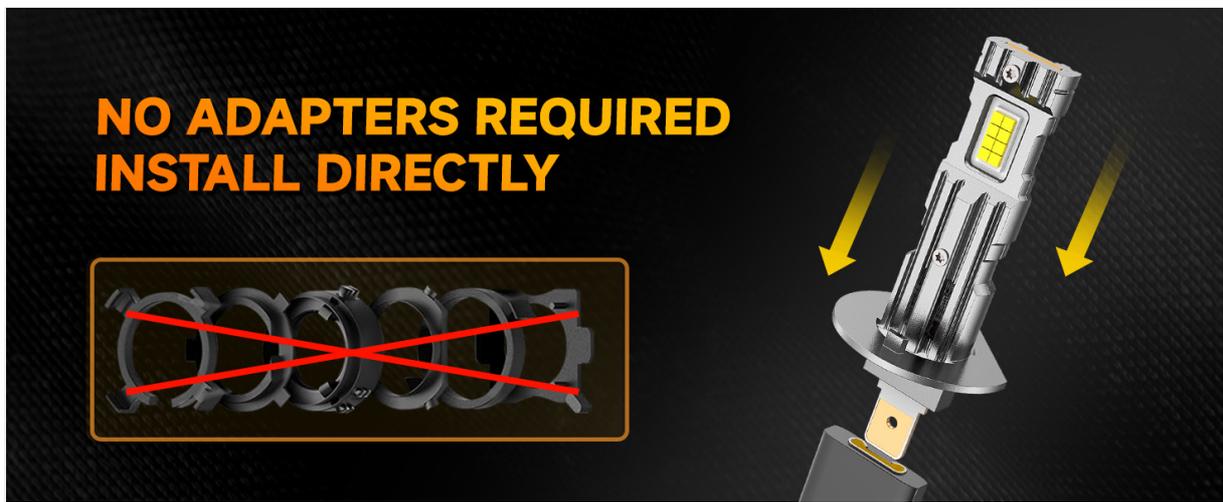


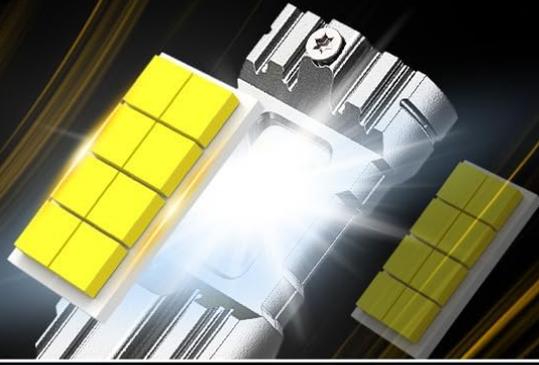
Image: Illustration highlighting that no additional adapters are needed for installing the FAHREN H1 LED bulbs, allowing for direct installation.

OPERATION

Once installed, your FAHREN H1 LED fog light bulbs will provide a bright, clear 6500K cool white light. These bulbs are designed for optimal light focus, ensuring a broad and far-reaching view without causing glare to oncoming traffic. The ultra-slim design helps position the LED chips accurately, mimicking the filament of traditional halogen bulbs for a precise beam pattern.

16CHIPS

Chip breakthrough



1800FT 



300FT 



Image: A visual comparison demonstrating the extended visibility provided by the FAHREN H1 LED bulbs, reaching up to 1800 feet compared to a standard 300 feet.



Image: A side-by-side comparison illustrating the superior light pattern and focus of FAHREN LED bulbs for both high and low beam settings, compared to other LED bulbs.

MAINTENANCE

FAHREN H1 LED fog light bulbs are designed for minimal maintenance due to their durable construction and long lifespan. The integrated cooling system, featuring aviation aluminum and a high-speed fan, ensures efficient heat dissipation, contributing to their extended operational life of over 60,000 hours.

- **Cleaning:** Periodically inspect the fog light lenses for dirt or debris. Clean with a soft cloth and mild automotive cleaner to maintain optimal light output.
- **Inspection:** Occasionally check the bulb's connection to ensure it remains secure and free from corrosion.
- **Waterproof Design:** The IP68 waterproof rating ensures protection against dust and water ingress, reducing the need for frequent checks in adverse weather conditions.

POTENT COOLING SYSTEM

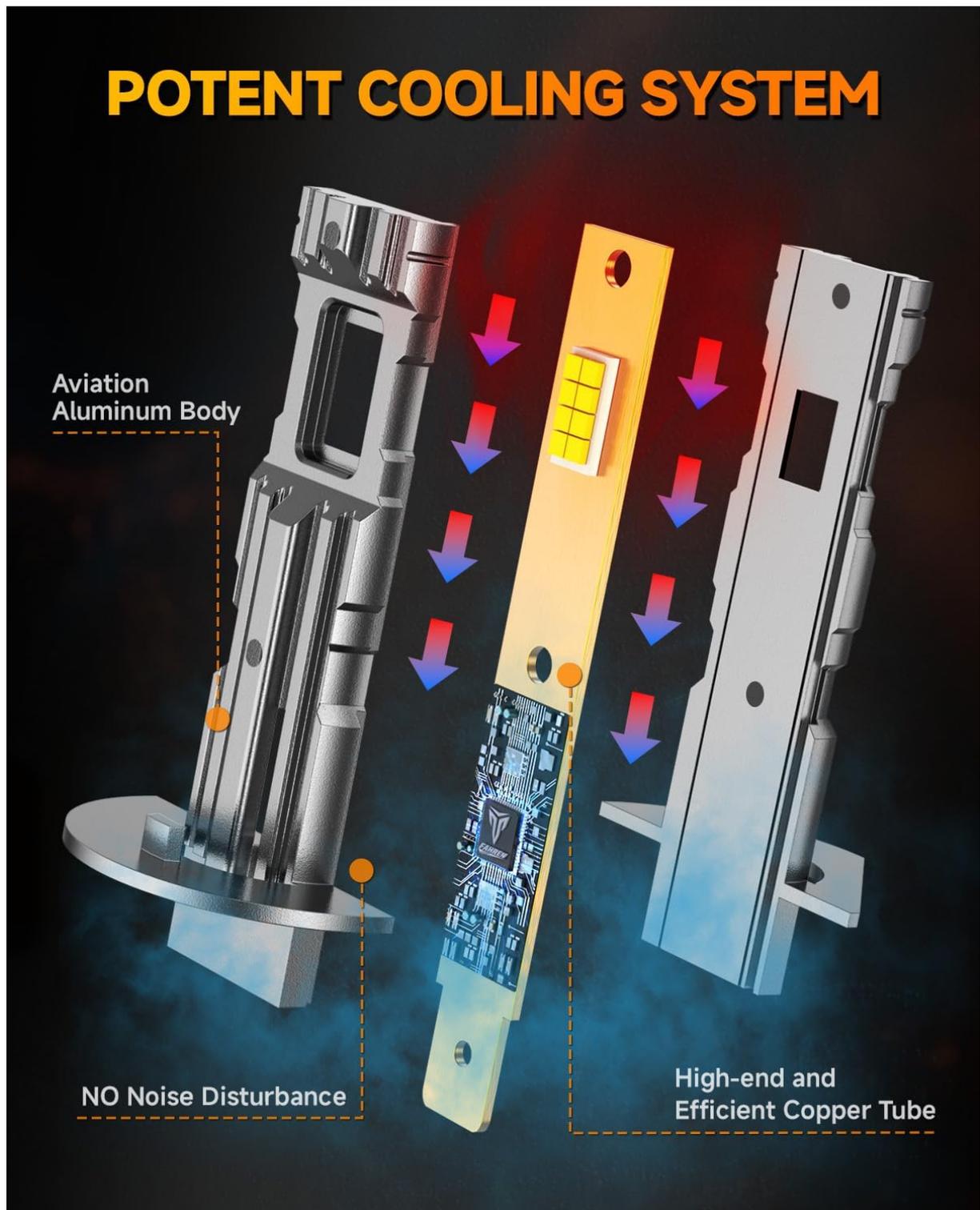


Image: An exploded view diagram illustrating the components of the FAHREN H1 LED bulb's cooling system, including the aviation aluminum body and copper baseboard, designed for efficient heat dissipation.

IP68 WATERPROOF



Image: The FAHREN H1 LED bulb shown partially submerged in water, highlighting its IP68 waterproof capability, suitable for various weather conditions like rain, fog, snow, and dust.

TROUBLESHOOTING

If you encounter issues with your FAHREN H1 LED fog light bulbs, please 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 connection ◦ Incorrect polarity (unlikely due to non-polarity design, but check) ◦ Blown fuse ◦ Faulty bulb 	<ul style="list-style-type: none"> ◦ Ensure the connector is securely plugged in. ◦ Verify the bulb is fully seated in the housing. ◦ Check your vehicle's fuse box for a blown fuse related to the fog lights and replace if necessary. ◦ If only one bulb is affected, swap it with the working bulb to confirm if the bulb is faulty.
Flickering or Error Message on Dashboard	<ul style="list-style-type: none"> ◦ CANbus incompatibility with sensitive vehicle systems 	<ul style="list-style-type: none"> ◦ While FAHREN H1 bulbs are CANbus ready for 90%+ vehicles, some sensitive models may require an additional CANbus decoder. Contact FAHREN customer support for assistance if this issue persists.
Light pattern is incorrect or scattered	<ul style="list-style-type: none"> ◦ Bulb not properly seated or aligned ◦ Housing issue 	<ul style="list-style-type: none"> ◦ Re-seat the bulb, ensuring it is fully inserted and oriented correctly in the housing. ◦ Inspect the fog light housing for any damage or obstructions.

FIT 98% VEHICLES

- ✓ NO ERROR
- ✓ NO FLICKER
- ✓ NO-POLARITY

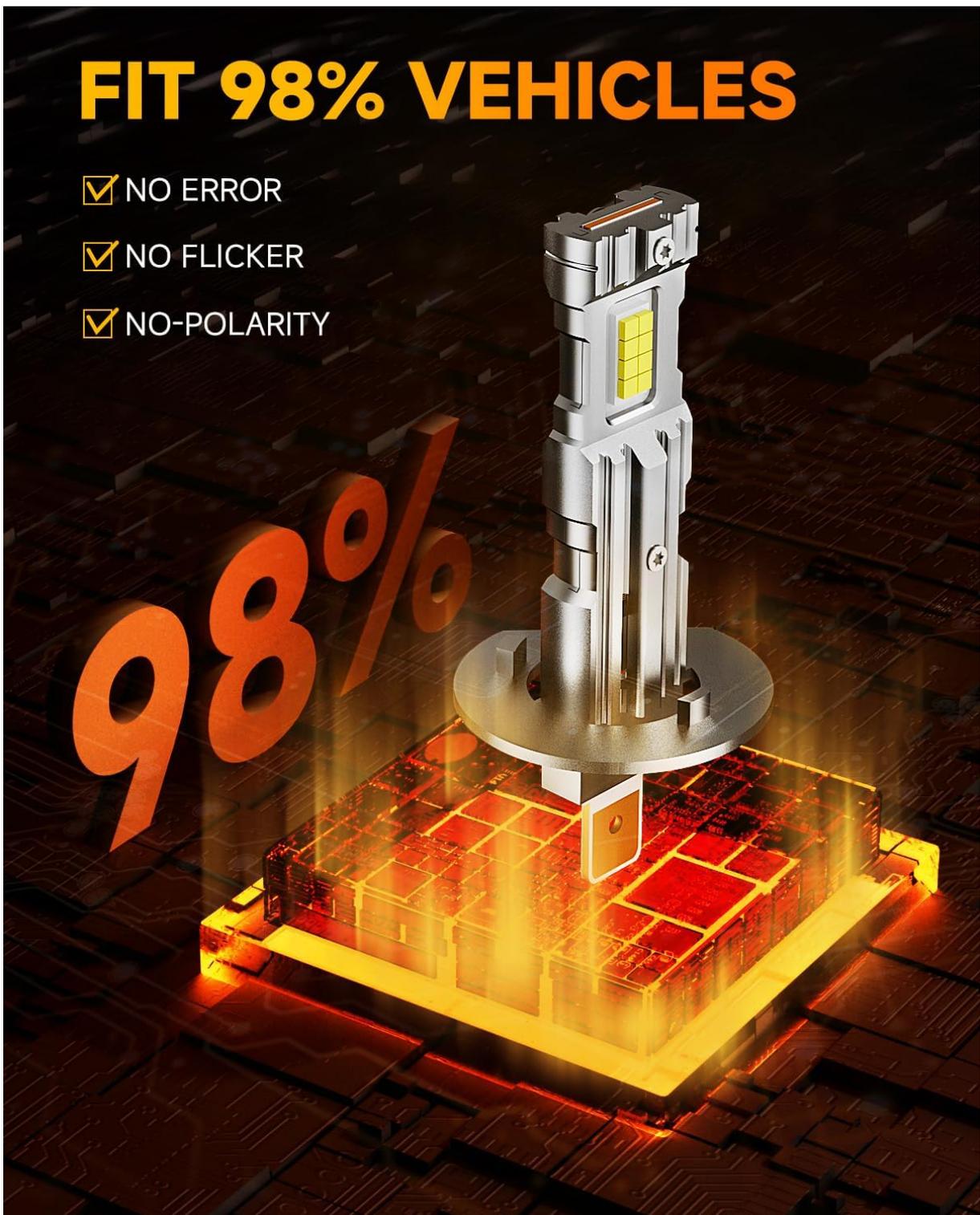


Image: An illustration indicating that FAHREN H1 LED bulbs are compatible with 98% of vehicles, emphasizing their CANbus readiness to prevent errors and flickering.



Image: A comparison showing a vehicle dashboard with a FAHREN bulb (no error indicator) versus another bulb (error indicator), demonstrating the CANbus compatibility of FAHREN bulbs.

WARRANTY AND SUPPORT

FAHREN is committed to providing high-quality products. For specific warranty details, return policies, or technical support, please refer to the information provided at the point of purchase or contact FAHREN customer service directly. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the official FAHREN store on Amazon: [FAHREN Store](#)

