

[Manuals.plus](#) /

> [CHOPDARK](#) /

> CHOPDARK H4/H19/HS1/9003/HB2 LED Bulbs Instruction Manual

CHOPDARK H19/H4/9003/HB2/HS1

CHOPDARK H4/H19/HS1/9003/HB2 LED Bulbs Instruction Manual

Model: H19/H4/9003/HB2/HS1

1. INTRODUCTION

The CHOPDARK H4/H19/HS1/9003/HB2 LED Bulbs are designed to provide superior illumination for your vehicle's fog lamps, offering enhanced brightness and a precise beam pattern. These bulbs are engineered for compatibility with a wide range of 12V and 24V vehicles, including motorcycles, cars, and trucks. They feature advanced technology for efficient cooling, electromagnetic compatibility (EMC), and a long operational lifespan.



Image: The CHOPDARK LED bulbs are designed as a perfect replacement for traditional halogen bulbs, offering a brighter and more efficient lighting solution for your vehicle.

2. KEY FEATURES

- **High Brightness:** Utilizes powerful 5530 Big LED Chips, providing 20000Lm per set and 6500K white light for up to 300% brighter illumination compared to standard halogen bulbs. The light is designed to be bright without dazzling oncoming drivers.
- **True Plug and Play Installation:** Features a 1:1 design for simple, non-destructive installation within approximately 10 minutes. No retainers or adapter wires are typically required.
- **Extended Service Life:** Incorporates multiple cooling designs, including a copper substrate for fast heat transfer, a full metal shell, and an integrated lamp body for overall heat conduction. An intelligent temperature control driver ensures real-time temperature management.
- **EMC Functionality:** Built-in EMC (Electromagnetic Compatibility) function prevents interference with car radio systems. The fanless design ensures quiet operation.
- **IP68 Protective Design:** Rated IP68 for waterproof, dustproof, cold-proof, and high-temperature resistance, ensuring reliable performance in various adverse weather conditions.
- **Wide Compatibility:** Equipped with advanced IC drivers for compatibility with approximately 90% of vehicles, addressing common issues like bulb flickering or dashboard warnings.

5530

High brightness chips




20000LM/SET


6500K


40W/SET

Image: Illustration highlighting the 5530 high brightness LED chips, which contribute to the bulb's powerful light output and efficient performance.

- UPGRADED VISION
- 6500K COOL WHITE
- SUPER BRIGHT



300% Brighter than halogen

- DIMMABLE
- 3200K WARM WHITE
- NOT ENERGY EFFICIENT



Image: Visual comparison demonstrating the significant increase in brightness and clarity provided by CHOPDARK LED bulbs over standard halogen bulbs.

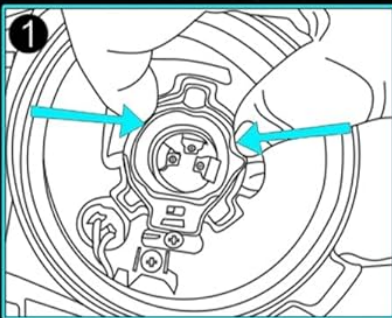
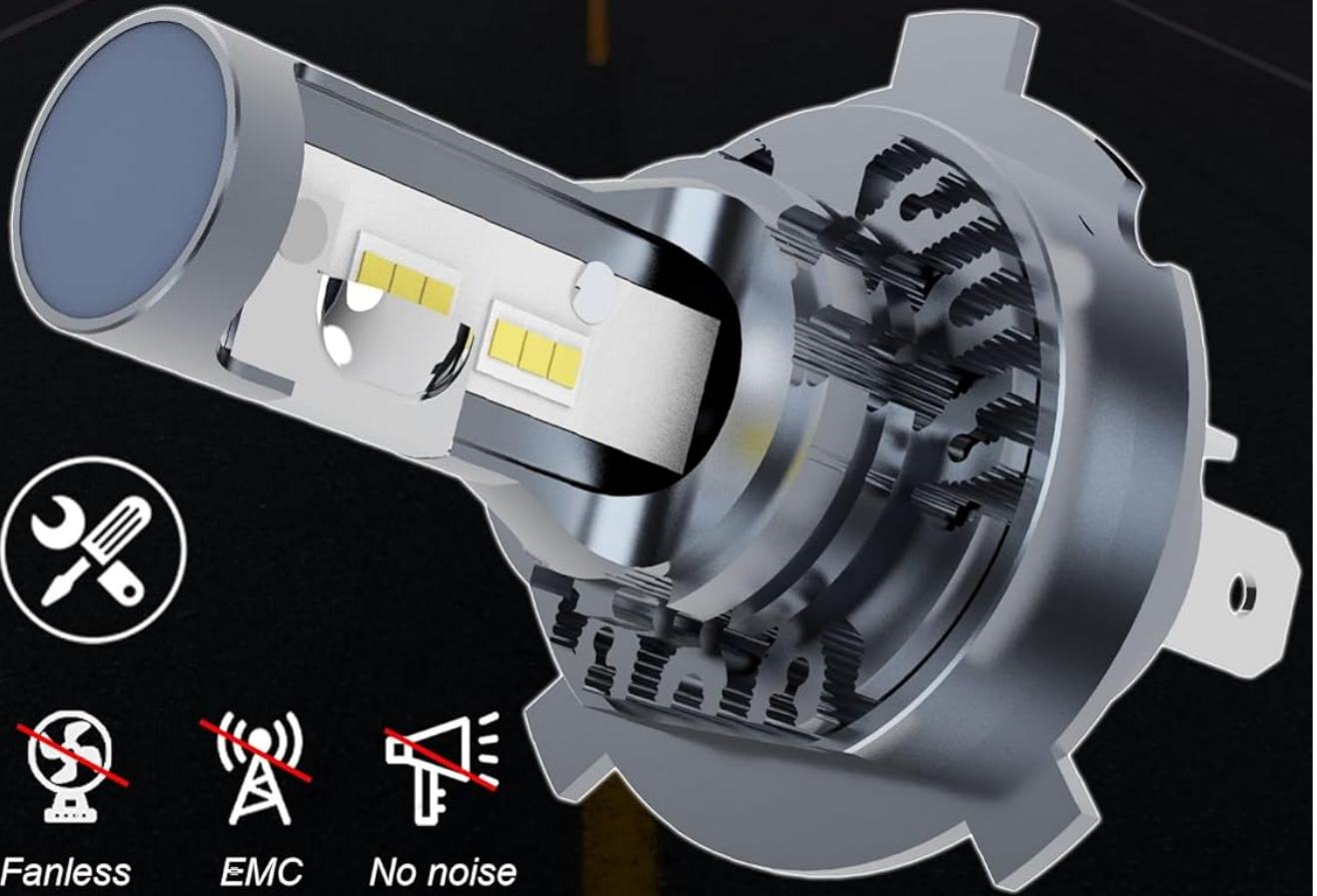
3. SETUP AND INSTALLATION

The CHOPDARK LED bulbs are designed for a straightforward, non-destructive installation process. Please follow these steps for proper installation:

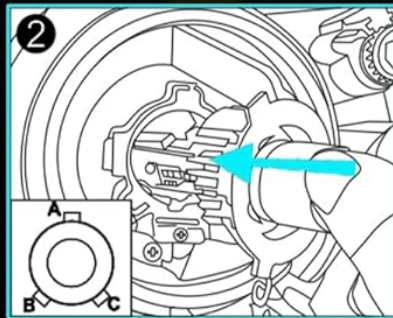
1. **Identify Bulb Type:** Before installation, it is crucial to confirm your vehicle's original bulb model. The safest method is to remove the existing bulb and check the model number directly labeled on it. This ensures you have the correct CHOPDARK LED bulb for your vehicle.
2. **Remove Original Bulb:** Carefully press the snap ring and remove the existing halogen lamp from its housing.
3. **Insert LED Bulb:** Align the gap on the CHOPDARK LED bulb with the corresponding slot in the headlight assembly. Gently insert the LED bulb into position.
4. **Secure and Connect:** Close the retaining ring to secure the LED bulb firmly in place. Finally, connect the bulb's socket to the vehicle's electrical connector.

The 1:1 design ensures a true plug-and-play experience, eliminating the need for additional retainers or adapter wires in most cases.

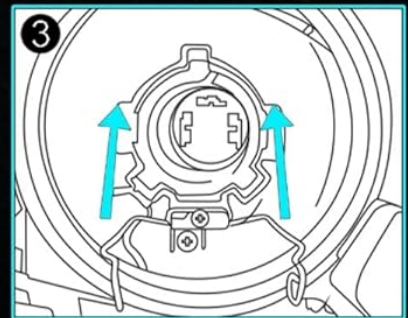
PLUG N PLAY Simple Easy



1 Press the snap ring.
Remove the halogen lamp.



2 Align the gap.
Insert the LED bulb.



3 Close the retaining ring.
Connect the socket.

Image: Step-by-step guide for the simple plug-and-play installation of the CHOPDARK LED bulbs.



Different cars use different bulb models. The **SAFEST** way to get the right bulb is to remove the original bulb and check the model number labeled on the bulb.



Image: Visual guide to help identify the correct bulb model by checking the label on your vehicle's original bulb.

4. OPERATING INSTRUCTIONS

Once installed, the CHOPDARK LED bulbs operate automatically with your vehicle's lighting system.

- **Beam Pattern:** The bulbs are designed to provide a standard beam pattern, ensuring light is projected effectively onto the road without causing glare to other drivers. This results in a safer and more comfortable driving experience.
- **Brightness and Color:** Experience a bright, 6500K white light that significantly improves visibility, especially during night driving or in adverse weather conditions.
- **Quiet Operation:** The fanless design of these LED bulbs ensures completely silent operation, contributing to a quiet and comfortable cabin environment.

SAFER FARTHER WIDER

CHOPDARK LED



HALOGEN

Farther

Too near

LOW BEAM

HIGH BEAM

Image: Demonstrates how CHOPDARK LED bulbs provide a farther and wider light spread compared to halogen bulbs, enhancing road visibility and safety.

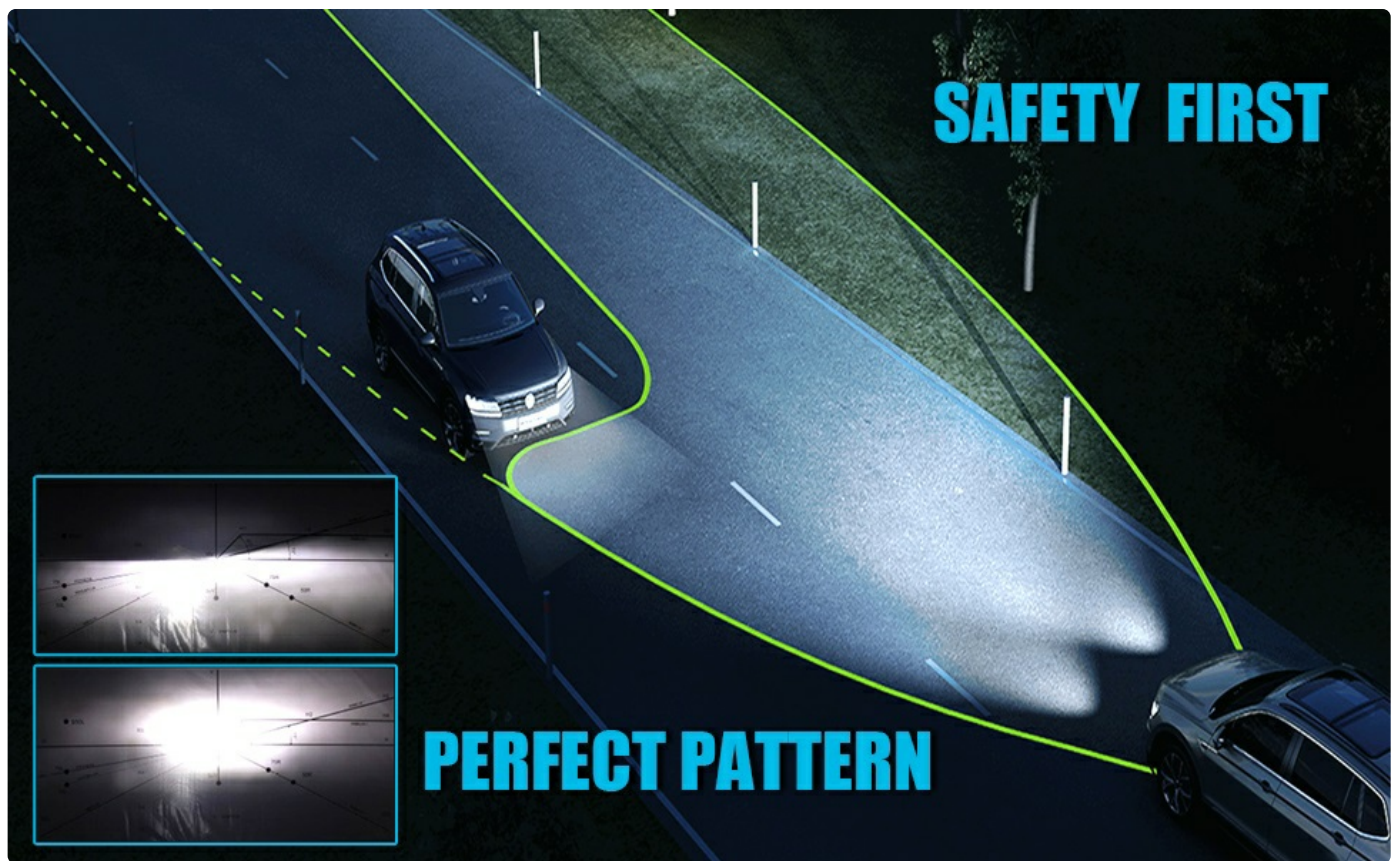


Image: Highlights the optimized beam pattern of the LED bulbs, designed for maximum road illumination and minimal glare for other drivers.

5. MAINTENANCE AND LONGEVITY

The CHOPDARK LED bulbs are engineered for durability and a long service life with minimal maintenance required.

- **Advanced Cooling System:** The bulbs feature a multi-faceted cooling design, including a copper substrate for rapid heat dissipation, a robust full metal shell, and an integrated lamp body. This comprehensive system efficiently conducts heat away from the LED chips, preserving their lifespan.
- **Intelligent Temperature Control:** An intelligent driver actively monitors and controls the bulb's temperature in real-time, preventing overheating and ensuring consistent performance over time.
- **IP68 Protection:** The IP68 rating signifies superior protection against water, dust, extreme cold, and high temperatures. This robust design ensures the bulbs function reliably even in harsh environmental conditions, eliminating concerns about weather-related damage.

IP68

WATERPROOF

The product has been strictly tested before leaving the factory.

-45°C

+150°C



Waterproof. Dustproof. Cold proof. High temperature resistance.
There will be no problems in all kinds of bad weather.

Image: Visual representation of the bulb's IP68 protection, highlighting its resistance to water, dust, and extreme temperatures.

1-YEAR Warranty



Copper Substrate

Fast heat dissipation



Intelligent Drive

Real time temperature control



Universal version plate

Compatible with: **H4 9003 HB2 H19 HS1**
12V / 24V

Image: Detailed view of the bulb's internal structure, showcasing its advanced cooling and intelligent temperature control mechanisms for extended durability.

6. TROUBLESHOOTING

While CHOPDARK LED bulbs are designed for broad compatibility, certain vehicle electrical systems may require additional components.

- **Flickering or Dashboard Warnings:** If you experience issues such as bulb flickering, hyper-flashing, or dashboard warning lights (e.g., "bulb out" warnings) after installation, this typically indicates a CANbus system incompatibility in your vehicle.
- **Solution:** For these specific vehicle models, CANbus decoders, error eliminators, or resistors may be required. These components help to stabilize the electrical current and prevent the vehicle's computer from detecting a "fault" due to the lower power draw of LED bulbs compared to halogen. These are typically sold separately.

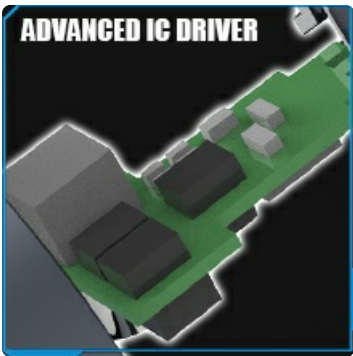


Image: The advanced IC driver helps ensure compatibility with most vehicles, but external decoders may be needed for some CANbus systems.

7. SPECIFICATIONS

Feature	Detail
Model	H19/H4/9003/HB2/HS1
Brand	CHOPDARK
Brightness	20000Lm (per set) / 30000 Lumen (as per some specifications)
Color Temperature	6500K (White Light)
Wattage	40W (per set)
Voltage Compatibility	12V / 24V
LED Chips	Powerful 5530 Big LED Chips
Cooling System	Copper Substrate, Full Metal Shell, Integrated Lamp Body, Intelligent Temperature Control Driver
Noise Level	Fanless (No Noise)
Interference	Built-in EMC Function (Non-interference radio)
Protection Rating	IP68 (Waterproof, Dustproof, Cold-proof, High Temperature Resistance)
Installation Type	True 1:1 Design, Plug and Play
Automotive Fit Type	Universal Fit
Item Weight	3.2 ounces

Feature	Detail
Package Dimensions	4.17 x 4.13 x 1.89 inches

8. WARRANTY AND SUPPORT

CHOPDARK stands behind the quality of its products.

- **Warranty:** These CHOPDARK LED bulbs come with a**1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product performs as described under normal use.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact CHOPDARK customer support directly. You can typically find contact information on the product packaging or through the seller's store page on the platform where the product was purchased.

© 2025 CHOPDARK. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B0BY5GFKF3>

More documents and user manuals: <https://manuals.plus/>