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› OSRAM H4 64193CBI Cool Blue Intense Headlight Bulb User Manual

OSRAM H4

OSRAM H4 64193CBI Cool Blue Intense Headlight Bulb User Manual

Model: H4 64193CBI | Brand: OSRAM

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your OSRAM H4 64193CBI Cool Blue Intense headlight bulbs. These high-tech halogen lamps are designed to provide a powerful, bright bluish-white light with a color temperature of up to 4200 Kelvin, offering a look similar to xenon lamps. They deliver up to 20% more light compared to standard halogen lamps and feature a modern design with a silver cap, ideal for clear-glass headlights. Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.



Image 1.1: OSRAM H4 Cool Blue Intense headlight bulbs shown in their retail packaging alongside two individual bulbs.

2. SAFETY INFORMATION

Always prioritize safety when handling and installing automotive lighting components.

- **Electrical Hazard:** Disconnect the vehicle's battery before attempting any electrical work to prevent electric shock.
- **Burn Hazard:** Halogen bulbs can become extremely hot during operation. Allow bulbs to cool completely before handling.
- **Fragile Component:** Handle bulbs by their base only. Avoid touching the glass envelope with bare hands, as oils can create hot spots and reduce bulb lifespan. If touched, clean with rubbing alcohol.
- **Eye Protection:** Wear appropriate eye protection during installation to guard against accidental breakage or debris.
- **Vehicle Compatibility:** Ensure these H4 bulbs are the correct type for your vehicle's headlight system. Refer to

your vehicle's owner's manual.

- **Legal Compliance:** These products have ECE approval, meaning they are approved for use on public roads. Always ensure your vehicle's lighting complies with local regulations.

3. INSTALLATION (SETUP)

The installation process for headlight bulbs can vary significantly between vehicle models. The following steps provide a general guide. Always consult your vehicle's owner's manual or a qualified mechanic for specific instructions pertaining to your vehicle.

1. **Prepare the Vehicle:** Park the vehicle on a level surface, turn off the engine, and engage the parking brake. For safety, disconnect the negative terminal of the vehicle's battery.
2. **Access the Headlight Assembly:** Locate the back of the headlight assembly. This may require opening the hood and removing covers, or in some cases, accessing from the wheel well.
3. **Remove the Old Bulb:**
 - Disconnect the electrical connector from the back of the bulb.
 - Remove any retaining clips, springs, or twist-lock mechanisms that hold the bulb in place.
 - Carefully pull the old bulb straight out from its socket.
4. **Install the New Bulb:**
 - Holding the new OSRAM H4 bulb by its metal base, carefully insert it into the headlight socket. Ensure the bulb is correctly oriented and seated firmly.
 - Secure the bulb with the retaining clips, springs, or twist-lock mechanism.
 - Reconnect the electrical connector to the bulb.
5. **Test and Adjust:** Reconnect the vehicle's battery. Turn on the headlights to ensure the new bulbs are functioning correctly. It is recommended to check headlight alignment after bulb replacement to ensure proper beam pattern and avoid dazzling other drivers.



Image 3.1: A detailed view of the OSRAM H4 headlight bulb, highlighting its base and glass envelope.



Image 3.2: The rear view of an OSRAM H4 headlight bulb, showing the three electrical terminals on its base.

4. OPERATING INSTRUCTIONS

The OSRAM H4 64193CBI bulbs are designed for vehicles that use H4 type headlights, which typically feature both high (main) and low (dipped) beam functions within a single bulb.

- **Low Beam:** Provides illumination directly in front of the vehicle without dazzling oncoming traffic. Use this setting for normal driving conditions, especially in urban areas or when other vehicles are present.
- **High Beam:** Offers maximum illumination for clear visibility over longer distances. Use high beams only when driving in unlit areas and when there is no oncoming traffic or vehicles directly ahead. Switch back to low beam when approaching other vehicles.

The operation of switching between low and high beams is controlled by your vehicle's standard headlight switch or stalk. Refer to your vehicle's owner's manual for specific controls.

5. MAINTENANCE

OSRAM H4 headlight bulbs are designed for durability and performance. Regular maintenance is generally not required for the bulbs themselves, but proper care can extend their lifespan and ensure optimal light output.

- **Headlight Lens Cleaning:** Keep your vehicle's headlight lenses clean from dirt, grime, and haze. A clean lens allows maximum light output.
- **Avoid Touching Glass:** As mentioned in safety, avoid touching the glass part of the bulb with bare hands during installation or inspection.
- **Check for Damage:** Periodically inspect your headlight assembly for any signs of moisture ingress or damage to the wiring, which can affect bulb performance.
- **Bulb Replacement:** Halogen bulbs have a finite lifespan. If one bulb fails, it is often recommended to replace both headlights simultaneously to maintain balanced light output and color temperature.

6. TROUBLESHOOTING

If you experience issues with your OSRAM H4 headlight bulbs, consider the following common troubleshooting steps:

- **Bulb Not Lighting Up:**

- Check the electrical connector to ensure it is securely attached to the bulb.
- Inspect the vehicle's fuse box for a blown headlight fuse. Replace if necessary.
- Verify that the bulb is correctly seated in the headlight assembly.
- If only one bulb is out, the bulb itself may be faulty and require replacement.

- **Dim or Flickering Light:**

- Check for loose connections at the bulb or within the vehicle's wiring harness.
- Inspect the headlight lens for dirt, haze, or damage that might obstruct light.
- A failing alternator or battery can cause inconsistent voltage, leading to dim or flickering lights. Consult a mechanic.

- **Incorrect Beam Pattern:**

- Ensure the bulb is correctly seated and oriented in the headlight housing. An improperly seated bulb can cause an erratic beam pattern.
- Headlight alignment may be necessary after bulb replacement.

If these steps do not resolve the issue, it is recommended to seek assistance from a qualified automotive technician.

7. SPECIFICATIONS

Detailed technical specifications for the OSRAM H4 64193CBI Cool Blue Intense headlight bulbs.

Technical data

Electrical data

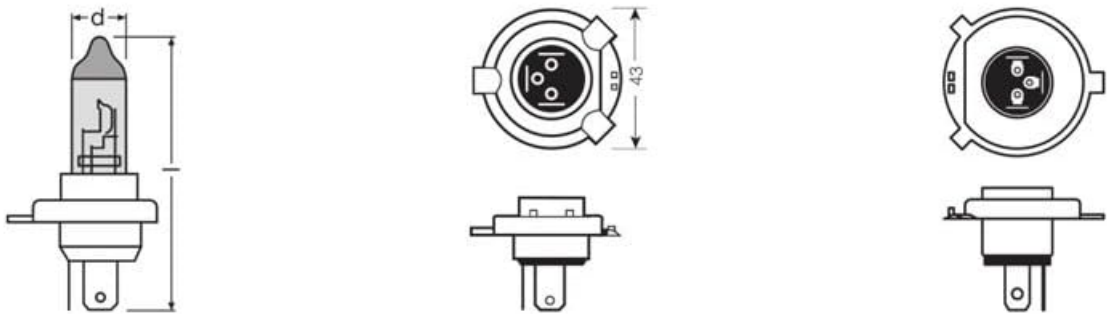
Power input	75 / 68 W ¹⁾
Nominal voltage	12.0 V
Nominal wattage	60/55 W
Test voltage	13.2 V

¹⁾ Maximum

Photometrical data

Luminous flux	1650/1000 lm
Luminous flux tolerance	±12 / ±15 %

Dimensions & weight



Length	82.0 mm
Diameter	17.0 mm
Product weight	25.60 g

Lifespan

Lifespan B3	50 / 200 h ¹⁾
Lifespan Tc	100 / 400 h ¹⁾

¹⁾ Filament 1 / Filament 2

Additional product data

Base (standard designation)	P43t
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Certificates & standards

ECE category	H4
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Image 7.1: Official technical data sheet for OSRAM H4 bulbs, detailing electrical, photometric, dimensional, and lifespan specifications.

OSRAM H4 64193CBI Technical Data

Category	Specification	Value
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Category	Specification	Value
Electrical Data	Power input	75 / 68 W (Maximum)
	Nominal voltage	12.0 V
	Nominal wattage	60/55 W
	Test voltage	13.2 V
Photometrical Data	Luminous flux	1650 / 1000 lm
	Luminous flux tolerance	±12 / ±15 %
Dimensions & Weight	Length	82.0 mm
	Diameter	17.0 mm
	Product weight	25.60 g
Lifespan	Lifespan B3	50 / 200 h
	Lifespan Tc	100 / 400 h
Additional Product Data	Base (standard designation)	P43t
	ECE category	H4

Other Specifications:

- **Brand:** OSRAM
- **Model:** H4
- **Manufacturer Part Number:** 64193CBI
- **Mirror Lighting Type:** Headlight
- **Special Features:** Performance, Safety, Stylish Look
- **Item Package Quantity:** 2 bulbs
- **Package Dimensions:** 4.4 x 3.6 x 1.8 inches
- **Item Weight:** 3.98 ounces

8. WARRANTY INFORMATION

OSRAM products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to your OSRAM H4 64193CBI Cool Blue Intense headlight bulbs, please refer to the warranty documentation included with your purchase or visit the official OSRAM website.

Typically, warranty coverage addresses manufacturing defects under normal use. Damage resulting from improper installation, misuse, or external factors may not be covered.

9. SUPPORT

For further assistance, technical support, or inquiries regarding your OSRAM H4 headlight bulbs, please contact OSRAM customer service or visit their official website.

OSRAM Official Website: www.osram.com

When contacting support, please have your product model number (H4 64193CBI) and purchase information readily

available.

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