

## Philips 93B2

# Philips Miniatures - Standard - 93B2 Bulb Instruction Manual

Model: 93B2

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Philips Miniatures - Standard - 93B2 automotive bulb. Please read these instructions carefully before proceeding with installation or use.

## 2. SAFETY INFORMATION

- Always turn off the vehicle's engine and disconnect the battery before attempting any electrical work to prevent electrical shock.
- Wear protective gloves and eye protection when handling bulbs to avoid injury from broken glass or contact with hot surfaces.
- Avoid touching the glass part of the bulb with bare hands. Oils from your skin can create hot spots, leading to premature bulb failure. If touched, clean with rubbing alcohol.
- Allow bulbs to cool completely before removal, as they can reach high temperatures during operation.
- Dispose of old bulbs according to local regulations.

## 3. SETUP AND INSTALLATION

The Philips 93B2 bulb is designed for specific automotive lighting applications. Refer to your vehicle's owner's manual for the correct bulb type and installation procedure for your specific make and model.

### Important Installation Note:

#### **Always replace bulbs in pairs.**

Replacing both bulbs at the same time ensures symmetrical light output and consistent performance, as bulbs dim over their lifespan. This practice helps maintain optimal visibility and safety.

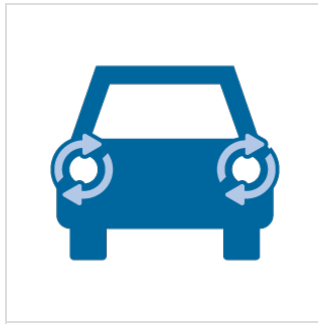


Illustration of replacing two bulbs for balanced performance.

### General Installation Steps:

1. **Consult Vehicle Manual:** Locate the specific instructions for accessing and replacing the bulb in your vehicle.
2. **Access Bulb Housing:** This may involve opening the hood, removing a cover, or accessing from behind the wheel well.
3. **Disconnect Power:** Unplug the electrical connector from the old bulb.
4. **Remove Old Bulb:** Carefully unclip or twist the old bulb out of its socket.
5. **Install New Bulb:** Insert the new Philips 93B2 bulb into the socket, ensuring it is seated correctly. Avoid forcing it.
6. **Reconnect Power:** Plug the electrical connector back onto the new bulb.
7. **Test Functionality:** Turn on your vehicle's lights to ensure the new bulb is working correctly before reassembling any covers or components.



Philips 93B2 Standard Mini Bulb packaging.

## 4. OPERATION

The Philips 93B2 bulb operates as part of your vehicle's electrical system. Once correctly installed, it will illuminate when the corresponding lighting function (e.g., headlights, turn signals, brake lights, interior lights, depending on application) is activated by the vehicle's controls.



Example of automotive lighting in operation.

## 5. MAINTENANCE

Philips 93B2 bulbs are designed for reliable performance and generally require minimal maintenance beyond proper installation. Regular checks of your vehicle's lighting system are recommended.

- **Visual Inspection:** Periodically check all exterior and interior lights to ensure they are functioning correctly. Look for dimming, flickering, or complete failure.
- **Replacement:** Replace bulbs when they fail or show signs of significant dimming. As noted, always replace in pairs for balanced light output.
- **Cleaning:** Keep headlight and taillight lenses clean from dirt and debris to maximize light output.

## 6. TROUBLESHOOTING

If your Philips 93B2 bulb is not functioning as expected, consider the following troubleshooting steps:

- **Bulb Not Lighting:**
  - Check the electrical connection to the bulb. Ensure it is securely plugged in.
  - Inspect the bulb for a broken filament. If the filament is broken, the bulb needs replacement.
  - Check the vehicle's fuse box for a blown fuse related to the lighting circuit. Replace any blown fuses.
  - Verify that the vehicle's lighting switch is in the correct position.
- **Bulb is Dim or Flickering:**
  - This often indicates the bulb is nearing the end of its lifespan. Replace both bulbs in the pair.
  - Check for corrosion on the bulb's contacts or within the socket, which can impede electrical flow.
  - Ensure the vehicle's charging system is functioning correctly, as low voltage can cause dimming.

If issues persist after these steps, consult a qualified automotive technician.

## 7. SPECIFICATIONS

Brand	Philips
Model Number	93B2

Type	Standard Miniature Bulb
Voltage	12.8 Volts
Wattage	13.31 Watts
Item Package Quantity	1
GTIN / UPC	046677102586



Philips commitment to Original Equipment Quality.

## 8. WARRANTY AND SUPPORT

For warranty information and customer support regarding your Philips 93B2 bulb, please refer to the documentation provided with your purchase or visit the official Philips Automotive Lighting website. You may also contact Philips customer service directly for assistance.

**Online Resources:** [Visit the Philips Store on Amazon](#)