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› SYLVANIA 6411 Long Life Miniature Bulb Instruction Manual

OSRAM 6411

SYLVANIA 6411 Long Life Miniature Bulb Instruction Manual

This manual provides instructions and information for the SYLVANIA 6411 Long Life Miniature Bulb, designed for automotive interior and exterior lighting applications.

1. PRODUCT OVERVIEW

The SYLVANIA 6411 Long Life Miniature Bulb is engineered for use in various automotive lighting applications, including interior and exterior positions. This bulb is designed for increased longevity and resistance to road shock and vibration, offering a reliable replacement solution. It features a robust filament and proprietary gas mixture for extended operational life. As an Original Equipment Manufacturer (OEM), Sylvania provides lighting designed for vehicle safety and functionality. This product is sold in a package of two bulbs.



Figure 1: SYLVANIA 6411 Long Life Miniature Bulb packaging, showing two bulbs.

2. KEY FEATURES

- **Durability:** Specifically designed to withstand road vibration and provide longer life compared to standard bulbs.

- **Enhanced Longevity:** Features a robust filament and proprietary gas mixture engineered for improved life expectancy.
- **OEM Quality:** Produced by a trusted Original Equipment Manufacturer (OEM) in automotive lighting.
- **Compliance:** Meets industry regulations for performance.
- **Package Contents:** Each package contains two bulbs.

3. SPECIFICATIONS

Brand	OSRAM
Model Number	6411LL.BP2
Wattage	10 watts
Voltage	13.5V
Item Weight	0.32 ounces
Product Dimensions	4 x 2.94 x 0.54 inches (packaging dimensions)
UPC	046135392313



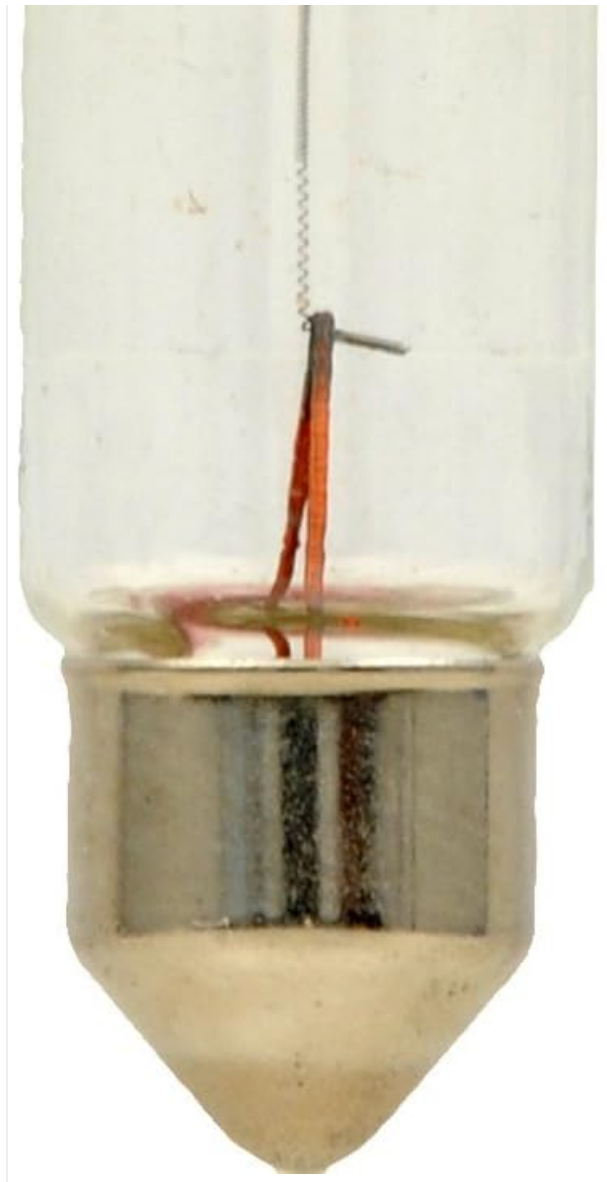


Figure 2: Detailed view of a single SYLVANIA 6411 miniature bulb, showing the filament and base.

4. INSTALLATION AND COMPATIBILITY

The SYLVANIA 6411 bulb is designed as a direct replacement for specific automotive applications. Proper installation ensures optimal performance and safety.

4.1. Checking Compatibility

Before installation, it is crucial to verify that the 6411 bulb is the correct fitment for your vehicle's specific light application (e.g., dome light, trunk light, license plate light). Refer to your vehicle's owner's manual or a reliable automotive bulb replacement guide (such as the [Sylvania Bulb Replacement Guide](#)) to confirm the required bulb type.

4.2. General Installation Steps

1. **Safety First:** Ensure the vehicle's ignition is off and the corresponding light circuit is de-energized to prevent electrical shock or short circuits. Allow any existing bulb to cool down before handling.
2. **Access the Bulb:** Locate the light fixture requiring the bulb replacement. This may involve removing a lens cover, trim panel, or accessing from behind the assembly. Consult your vehicle's service manual for specific access procedures.
3. **Remove Old Bulb:** Carefully grasp the old bulb and pull it straight out from its socket. Avoid twisting if the bulb is a wedge type, as this can damage the socket. For festoon-style bulbs like the 6411, gently pry one end out of its spring-loaded contact.
4. **Install New Bulb:** Insert the new SYLVANIA 6411 bulb into the socket. Ensure it is seated firmly and correctly. Avoid

touching the glass portion of the new bulb with bare hands, as oils can create hot spots and reduce bulb life. Use a clean cloth or gloves if necessary.

5. **Test Functionality:** Before reassembling, turn on the vehicle's ignition and activate the light circuit to confirm the new bulb illuminates correctly.
6. **Reassemble:** Once confirmed, reattach any covers or panels removed during the access step.

Note: Incorrect bulb fitment can lead to poor performance, damage to the electrical system, or failure to illuminate. Always double-check the required bulb type for your specific application.

5. OPERATION

The SYLVANIA 6411 Long Life Miniature Bulb operates as a standard incandescent automotive bulb. Once properly installed and the corresponding electrical circuit is activated (e.g., by opening a door for a dome light, or turning on headlights for an exterior light), the bulb will illuminate, providing light as intended by the vehicle manufacturer.

6. MAINTENANCE AND CARE

SYLVANIA 6411 bulbs are designed for long life and minimal maintenance. However, following these general guidelines can help ensure optimal performance:

- **Cleanliness:** Keep the bulb's glass surface clean. If you accidentally touch the glass during installation, wipe it with a clean, lint-free cloth moistened with rubbing alcohol to remove any oils.
- **Socket Integrity:** Periodically inspect the bulb socket for corrosion or damage. A clean, secure connection is vital for proper electrical flow and bulb longevity.
- **Avoid Over-Voltage:** Ensure your vehicle's electrical system is functioning correctly. Over-voltage can significantly shorten bulb life.
- **Proper Storage:** If storing spare bulbs, keep them in their original packaging in a cool, dry place to protect them from damage and contamination.

7. TROUBLESHOOTING

If your SYLVANIA 6411 bulb is not functioning as expected, consider the following troubleshooting steps:

- **Bulb Not Illuminating:**
 - **Check Connection:** Ensure the bulb is fully seated in its socket and making proper contact.
 - **Inspect Filament:** Visually inspect the bulb's filament. If it is broken or appears burnt, the bulb has failed and needs replacement.
 - **Check Fuse:** Verify the corresponding fuse for the light circuit is intact. A blown fuse will prevent the bulb from receiving power.
 - **Test Socket:** If possible, test the socket with a known working bulb or a multimeter to confirm it is receiving power.
- **Intermittent Operation:**
 - **Loose Connection:** A loose bulb in the socket or corroded contacts can cause intermittent illumination. Re-seat the bulb and clean contacts if necessary.
 - **Wiring Issues:** Inspect the wiring leading to the light fixture for any signs of damage or loose connections.
- **Short Bulb Life:**
 - **Vibration:** While designed for vibration resistance, extreme or prolonged vibration can still impact bulb life.
 - **Over-Voltage:** An issue with the vehicle's charging system (e.g., faulty voltage regulator) can cause bulbs to burn out prematurely due to excessive voltage.

- **Incorrect Bulb Type:** Using a bulb with incorrect specifications for the application can lead to premature failure.

8. WARRANTY AND SUPPORT

SYLVANIA bulbs are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the official OSRAM/SYLVANIA website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Osram Sylvania

Brand: OSRAM

For further assistance, you may visit the [OSRAM Store on Amazon](#).

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