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## Technical Precision 69316

# Instruction Manual

## TECHNICAL PRECISION REPLACEMENT BULB FOR OSRAM SYLVANIA 69316

Model: 69316

### 1. Product Overview

This manual provides essential information for the safe and effective use of the Technical Precision Replacement Bulb, designed as a direct compatible replacement for the OSRAM Sylvania 69316 High Intensity Discharge (HID) bulb. This product is intended for use in compatible fixtures requiring a 200-watt HID bulb.



Figure 1: Technical Precision Replacement Bulb (Model 69316). This image shows a clear, elongated glass bulb with metal caps at both ends, typical of a double-ended HID lamp.

### 2. Safety Information

Please read and understand all safety warnings before installation or operation. Failure to follow these instructions may result in electric shock, fire, or personal injury.

- **DANGER:** Always disconnect power to the fixture before inspecting, installing, or removing the bulb.
- Allow the bulb and fixture to cool completely before handling. Hot bulbs can cause severe burns.

- Do not touch the glass part of the bulb with bare hands. Oils from skin can reduce bulb life. Use a clean cloth or gloves.
- Ensure the replacement bulb's wattage and type match the fixture's requirements. This bulb is 200 Watts.
- Dispose of old bulbs according to local regulations, especially for HID lamps which may contain mercury.
- Do not operate the bulb if the glass envelope is cracked or broken.
- This bulb is designed for specific HID fixtures. Do not use in standard incandescent or fluorescent fixtures.

### 3. Setup and Installation

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1. **Turn Off Power:** Locate the circuit breaker or fuse box controlling the fixture and turn off the power supply. Verify power is off using a voltage tester.
2. **Allow Cooling:** If replacing an existing bulb, allow the old bulb and fixture to cool down completely. This may take several minutes.
3. **Remove Old Bulb:** Carefully remove the old bulb from the fixture. For double-ended HID bulbs, this typically involves releasing the spring-loaded contacts or unscrewing retaining clips.
4. **Inspect Fixture:** Check the fixture's socket and wiring for any signs of damage or wear. Address any issues before proceeding.
5. **Install New Bulb:** Holding the new Technical Precision bulb with a clean cloth or gloves, carefully insert it into the fixture's socket. Ensure it is seated firmly and correctly according to the fixture's design. Do not overtighten or force the bulb.
6. **Restore Power:** Once the bulb is securely installed, restore power to the fixture from the circuit breaker or fuse box.
7. **Test:** Turn on the light switch to confirm the new bulb is functioning correctly.

### 4. Operating Instructions

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This replacement bulb operates like a standard HID lamp. Once installed in a compatible fixture, its operation is controlled by the fixture's power switch.

- **Initial Warm-up:** HID bulbs require a short warm-up period to reach full brightness and color stability. This typically takes a few minutes after initial ignition.
- **Restrike Time:** If the bulb is turned off, it may require a cool-down period (restrike time) before it can be reignited. Attempting to immediately restart a hot HID bulb may prevent it from igniting or shorten its lifespan.
- **Control:** The bulb's on/off function is managed by the external power switch connected to the fixture.

### 5. Maintenance

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Proper maintenance can extend the life and performance of your bulb.

- **Cleaning:** Periodically, with power off and bulb cool, gently wipe the glass envelope with a clean, dry, lint-free cloth to remove dust or debris. Do not use liquid cleaners.
- **Inspection:** Regularly inspect the bulb and fixture for any signs of damage, discoloration, or loose connections.

- **Replacement:** Replace the bulb when it reaches the end of its rated life, shows signs of dimming, flickering, or fails to ignite consistently.

## 6. Troubleshooting

If the bulb is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Bulb does not light up.	No power to fixture, incorrect installation, faulty bulb, or faulty ballast/fixture.	<ol style="list-style-type: none"> <li>1. Check power supply (circuit breaker, switch).</li> <li>2. Ensure bulb is correctly seated in the socket.</li> <li>3. Test with a known working bulb if available.</li> <li>4. If problem persists, consult a qualified electrician.</li> </ol>
Bulb flickers or dims.	Loose connection, aging bulb, or ballast issue.	<ol style="list-style-type: none"> <li>1. Turn off power and check bulb connection.</li> <li>2. If bulb is old, consider replacement.</li> <li>3. If new bulb flickers, the fixture's ballast may be failing.</li> </ol>
Bulb takes a long time to warm up or restrike.	Normal for HID bulbs, or bulb is nearing end of life.	<ol style="list-style-type: none"> <li>1. Allow sufficient warm-up/cool-down time.</li> <li>2. If excessively long, consider bulb replacement.</li> </ol>

## 7. Specifications

Attribute	Detail
Brand	Technical Precision
Model Number	69316
Compatibility	Direct replacement for OSRAM Sylvania 69316
Wattage	200 Watts
Material	Copper (internal components)
Unit Count	1.0 Count
Connectivity Technology	Normal bulb (requires compatible HID ballast)
Manufacturer	Technical Precision

## 8. Warranty and Support

This Technical Precision product is covered by the manufacturer's standard warranty. For specific warranty

terms, duration, and claim procedures, please refer to the documentation provided with your purchase or visit the Technical Precision official website.

For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please contact Technical Precision customer service. Contact information can typically be found on the product packaging or the manufacturer's website.

*Note: Always ensure you have your product model number (69316) and purchase date available when contacting support.*