

## Technical Precision 6435/FR

# Technical Precision 6435/FR Frosted Halogen Light Bulb Instruction Manual

Model: 6435/FR

## 1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective use of your Technical Precision 6435/FR Frosted Halogen Light Bulb. This bulb is designed as a direct replacement for Philips 20W 12V models, featuring a GY6.35 bi-pin base for easy installation. It produces a soft, diffused light output, making it suitable for various indoor lighting applications such as display cases, accent lighting, and task lighting.

## 2. SAFETY INFORMATION

- **Power Off:** Always ensure the power supply to the fixture is turned off before installing, removing, or cleaning the bulb.
- **Cool Down:** Halogen bulbs can become very hot during operation. Allow the bulb to cool completely before handling to prevent burns.
- **Handle with Care:** Avoid touching the glass part of the bulb directly with bare hands. Oils from your skin can create hot spots, reducing bulb life. Use a clean cloth or gloves.
- **Correct Voltage:** This bulb operates at 12 Volts. Ensure your fixture provides the correct voltage to prevent damage to the bulb or fixture.
- **Indoor Use Only:** This bulb is rated for indoor usage. Do not use in outdoor or wet environments unless the fixture is specifically designed for such conditions.
- **Disposal:** Dispose of used bulbs according to local regulations.

## 3. SETUP (INSTALLATION)

1. **Turn Off Power:** Locate the light fixture's power switch and turn it to the OFF position. For added safety, turn off the circuit breaker supplying power to the fixture.
2. **Allow to Cool:** If replacing an existing bulb, allow it to cool down completely before touching.

3. **Remove Old Bulb:** Gently pull the old GY6.35 bi-pin bulb straight out from its socket. Do not twist.
4. **Insert New Bulb:** Align the two pins of the new Technical Precision 6435/FR bulb with the holes in the GY6.35 socket. Gently push the bulb straight into the socket until it is firmly seated. Do not force it.
5. **Restore Power:** Once the bulb is securely in place, restore power to the fixture by turning on the circuit breaker and then the light switch.



Image: The 6435/FR bulb held in a hand, illustrating its compact size and GY6.35 bi-pin base for installation reference.



Image: A detailed view of the Technical Precision 6435/FR frosted halogen light bulb, showing its GY6.35 base and frosted glass.

#### **4. OPERATING INSTRUCTIONS**

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After successful installation, simply turn on the power switch to illuminate the bulb. The Technical Precision 6435/FR bulb will provide a soft, diffused light, ideal for reducing glare and creating a comfortable ambiance in various indoor settings.



Image: The 6435/FR bulb illuminated, demonstrating its soft, frosted light output.

## 5. MAINTENANCE

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- **Cleaning:** Ensure the bulb is cool and the power is off before cleaning. Wipe the bulb gently with a soft, dry, lint-free cloth. Do not use liquid cleaners.
- **Replacement:** The average life of this bulb is approximately 2000 hours. Replace the bulb when it reaches the end of its operational life or if it fails prematurely. Follow the installation steps for replacement.

## 6. TROUBLESHOOTING

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If your Technical Precision 6435/FR light bulb is not functioning as expected, consider the following:

- **Bulb Not Lighting:**
  - Check if the power supply to the fixture is on.
  - Ensure the bulb is correctly and firmly seated in the GY6.35 socket.
  - Inspect the bulb for any visible damage, such as a broken filament or cracked glass. If damaged, replace the bulb.
  - Verify that the fixture itself is working correctly by testing with another known-good bulb if possible.

- **Dim or Flickering Light:**

- Ensure the bulb is receiving the correct 12V power. Incorrect voltage can affect performance.
- Check for loose connections in the fixture or wiring.
- If the bulb is nearing the end of its average life (2000 hours), its performance may degrade.

If troubleshooting steps do not resolve the issue, please refer to the support information in Section 8.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	6435/FR
Brand	Technical Precision
Light Type	Frosted Halogen
Wattage	20 Watts
Voltage	12 Volts
Bulb Base	GY6.35 Bi-Pin
Brightness	160 Lumens
Color Temperature	2700 Kelvin
Color Rendering Index (CRI)	80
Average Life	2000 Hours
Material	Copper
Indoor/Outdoor Usage	Indoor
Package Dimensions	2.83 x 2.13 x 1.85 inches
Item Weight	1.76 ounces

## 8. WARRANTY AND SUPPORT

Technical Precision stands by the quality of its products. We recommend carefully checking the bulb specifications to ensure compatibility with your fixture before purchase. If you have any questions, encounter issues, or require assistance, please do not hesitate to contact our customer support team. We are committed to providing helpful and timely support.

For support, please visit the [Technical Precision Store on Amazon](#) or refer to the contact information provided with your purchase.