

Technical Precision 2138-AY-9X7H-9

Instruction Manual

REPLACEMENT FOR KLA-TENCOR 2138 BULB

Model: 2138-AY-9X7H-9 | Brand: Technical Precision

Introduction

This manual provides essential information for the safe and effective use of the Technical Precision Replacement Bulb for KLA-TENCOR 2138 systems. Please read this manual thoroughly before installation and operation.



Image: Technical Precision Replacement Bulb. This image displays the elongated, clear glass bulb with metal end caps, designed for specific industrial equipment.

Setup

Proper setup is crucial for the performance and longevity of the bulb. Ensure the KLA-TENCOR 2138 system is powered off and disconnected from its power source before proceeding.

1. **Safety First:** Always wear appropriate personal protective equipment, such as gloves and eye protection, when handling light bulbs, especially those that may contain mercury or other hazardous materials.
2. **Cool Down:** Allow the existing bulb and surrounding components to cool completely before attempting removal. Hot bulbs can cause severe burns.
3. **Locate Bulb Housing:** Identify the bulb housing within the KLA-TENCOR 2138 system. Refer to the original equipment manufacturer's manual for specific instructions on accessing the bulb.
4. **Remove Old Bulb:** Carefully unlatch or unscrew any retaining mechanisms. Grasp the old bulb firmly but gently, avoiding direct contact with the glass if possible, and pull it straight out.
5. **Install New Bulb:** Align the pins or connectors of the new Technical Precision replacement bulb with the corresponding slots in the housing. Insert the bulb gently until it is fully seated. Do not force the bulb.

6. **Secure Bulb:** Re-engage any retaining mechanisms to ensure the bulb is securely held in place.
7. **Close Housing:** Close and secure the bulb housing cover.

Note: Avoid touching the glass part of the new bulb with bare hands. Oils from your skin can create hot spots and reduce bulb life. If touched, clean with a lint-free cloth and isopropyl alcohol.

Operating

Once the replacement bulb is installed, the KLA-TENCOR 2138 system can be powered on.

1. **Reconnect Power:** Plug the KLA-TENCOR 2138 system back into its power source.
2. **Power On:** Turn on the KLA-TENCOR 2138 system according to its operational procedures.
3. **Initial Warm-up:** Allow the bulb to warm up to its full operating temperature. This may take a few minutes, during which the light output may stabilize.
4. **Verify Functionality:** Confirm that the system is operating as expected and that the light output is consistent and appropriate for its intended use.

Important: Frequent on/off cycling can reduce the lifespan of the bulb. It is recommended to minimize unnecessary power cycles.

Maintenance

Regular maintenance helps ensure optimal performance and extends the life of your replacement bulb.

- **Cleaning:** Periodically inspect the bulb and its housing for dust or debris accumulation. If necessary, gently clean the bulb's glass surface with a soft, lint-free cloth. For stubborn marks, use a small amount of isopropyl alcohol. Ensure the bulb is cool and the system is powered off before cleaning.
- **Inspection:** Regularly check the bulb for any signs of damage, such as cracks or discoloration, which may indicate a need for replacement.
- **Environmental Control:** Ensure the operating environment for the KLA-TENCOR 2138 system is within the recommended temperature and humidity ranges to prevent premature bulb failure.

Troubleshooting

If you encounter issues with the replacement bulb, consider the following common solutions:

Problem	Possible Cause	Solution
Bulb does not light up.	<ul style="list-style-type: none">• Improper installation.• No power to the system.• Defective bulb.	<ul style="list-style-type: none">• Re-seat the bulb firmly.• Check power connections and circuit breaker.• Replace the bulb.
Bulb flickers or dims.	<ul style="list-style-type: none">• Loose connection.• Voltage fluctuations.• Nearing end of life.	<ul style="list-style-type: none">• Check bulb seating and connections.• Ensure stable power supply.• Replace the bulb.
Reduced light output.	<ul style="list-style-type: none">• Dust/dirt on bulb.• Bulb nearing end of life.	<ul style="list-style-type: none">• Clean the bulb surface.• Replace the bulb.

If problems persist after attempting these solutions, consult the KLA-TENCOR 2138 system's original

manual or contact Technical Precision customer support.

Specifications

Attribute	Value
Brand	Technical Precision
Model Number	2138-AY-9X7H-9
Voltage	18 Volts
Wattage	150 Watts
Color Temperature	6200 Kelvin
Average Life	1200 Hours
Bulb Length	5.91 Inches
Unit per Sale	1

Warranty and Support

For information regarding warranty coverage or technical support for your Technical Precision replacement bulb, please refer to the seller's return policy or contact Technical Precision directly.

Seller's Return Policy: This product typically has a 30-day return/replacement policy from the date of purchase. Please check the specific terms with your retailer.

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

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