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Technical Precision DR/2000-AZ-DQWX-4

Technical Precision Replacement Bulb Instruction Manual

For HACH DR/2000 Spectrophotometer

1. INTRODUCTION

This manual provides essential information for the safe and effective installation and maintenance of the Technical Precision Replacement Bulb for the HACH DR/2000 Spectrophotometer. This product is designed as a direct replacement part to restore or maintain the optimal performance of your HACH DR/2000 instrument.

Please read this manual thoroughly before attempting any installation or maintenance procedures. Keep this manual for future reference.

2. SAFETY INFORMATION

- **Electrical Safety:** Always disconnect the HACH DR/2000 instrument from its power source before attempting any installation or maintenance. Failure to do so may result in electric shock or damage to the instrument.
- **Fragile Component:** The replacement bulb is made of glass and is fragile. Handle with care to prevent breakage. Avoid touching the glass part of the bulb directly with bare hands, as oils can reduce its lifespan. Use gloves or a clean cloth if necessary.
- **Heat:** The bulb can become very hot during operation. Allow the instrument to cool down completely before handling the bulb.
- **Disposal:** Dispose of old bulbs according to local regulations for electronic waste or hazardous materials.
- **Qualified Personnel:** Installation should ideally be performed by qualified personnel familiar with the HACH DR/2000 instrument.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- 1 x Technical Precision Replacement Bulb for HACH DR/2000



This image displays the replacement incandescent bulb, highlighting its tubular shape and the attached electrical connectors, which are essential for installation into the HACH DR/2000.

4. SETUP AND INSTALLATION

Follow these steps carefully to replace the bulb in your HACH DR/2000 Spectrophotometer:

1. **Power Off and Disconnect:** Ensure the HACH DR/2000 instrument is completely powered off and unplugged from the electrical outlet. Allow sufficient time for the instrument, especially the bulb area, to cool down if it has been recently in use.
2. **Access Bulb Compartment:** Refer to your HACH DR/2000 user manual to locate and safely open the bulb access compartment. This typically involves removing a cover or panel, often secured by screws.
3. **Remove Old Bulb:** Carefully disconnect the electrical connectors from the old bulb. Gently grasp the old bulb (if it's cool enough) and remove it from its socket or mounting bracket. Note its orientation for correct installation of the new bulb.
4. **Install New Bulb:** Without touching the glass part of the new Technical Precision bulb, carefully insert it into the socket or mounting bracket, ensuring it is seated correctly. Connect the electrical connectors firmly to the bulb's terminals. Ensure the connections are secure.
5. **Secure Compartment:** Close and secure the bulb access compartment, reattaching any screws or covers that were removed.
6. **Reconnect Power:** Plug the HACH DR/2000 instrument back into the electrical outlet.
7. **Test Functionality:** Power on the HACH DR/2000 and perform a diagnostic check or a standard measurement to confirm the new bulb is functioning correctly and providing stable light output.

5. OPERATING CONSIDERATIONS

The Technical Precision Replacement Bulb is designed to integrate seamlessly with your HACH DR/2000. Once installed, the spectrophotometer should operate as intended by its original design. The bulb provides the necessary light source for accurate photometric measurements.

- Ensure the instrument is used within its specified environmental conditions.
- Regular calibration of the HACH DR/2000 is recommended to ensure continued accuracy, especially after replacing critical components like the light source.

6. MAINTENANCE

Proper maintenance of the bulb and surrounding area can extend its lifespan and ensure consistent performance:

- **Cleaning:** If the bulb needs cleaning (e.g., from accidental fingerprints), gently wipe it with a clean, lint-free cloth moistened with isopropyl alcohol. Ensure the bulb is cool and the instrument is unplugged before cleaning.
- **Inspection:** Periodically inspect the bulb and its connections for any signs of wear, discoloration, or loose connections.
- **Storage:** If storing a spare bulb, keep it in its original protective packaging in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues after installing the replacement bulb, consider the following:

Problem	Possible Cause	Solution
Bulb does not light up.	Instrument not powered on. Loose electrical connection. Bulb not seated correctly. Faulty bulb (rare). Instrument internal issue.	Ensure instrument is plugged in and powered on. Check and secure all electrical connections to the bulb. Re-seat the bulb firmly in its socket. If possible, test with another known good bulb. Consult the HACH DR/2000 service manual or contact HACH support for instrument-specific issues.
Inconsistent or incorrect readings.	Bulb not fully warmed up. Contamination on bulb surface. Instrument calibration required.	Allow instrument to warm up for recommended time. Clean the bulb surface carefully (refer to Maintenance section). Perform a full calibration of the HACH DR/2000 as per its manual.

8. SPECIFICATIONS

Brand	Technical Precision
Model Name	DR/2000-AZ-DQWX-4
Light Type	Incandescent
Wattage	1 watts
Voltage	230 Volts
Bulb Shape Size	T (Tubular)
Bulb Length	4 Inches
Material	Copper (for connectors/base)
Special Feature	High Efficiency
Unit Count	1.0 Count

9. WARRANTY AND SUPPORT

This Technical Precision replacement part is manufactured to high standards. For specific warranty information regarding this replacement bulb, please refer to the packaging or contact Technical Precision directly via their official website or customer service channels.

For support related to the HACH DR/2000 instrument itself, including its operation, calibration, or internal diagnostics, please refer to the original HACH DR/2000 user manual or contact HACH customer support.

Technical Precision Contact:

Website: Visit the Technical Precision Store on Amazon

Seller ID: A1JFPHGOM4BC6O (as listed on Amazon)