

## Technical Precision USB-0816-14

# Technical Precision USB-0816-14 Ballast Replacement Instruction Manual

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation and operation of your Technical Precision USB-0816-14 Ballast Replacement. Please read this manual thoroughly before attempting any installation or maintenance to ensure proper function and safety.

## 2. SAFETY INFORMATION

**WARNING:** Risk of electric shock. Installation should only be performed by a qualified electrician or trained personnel. Always disconnect power at the circuit breaker before installing or servicing the ballast.

- Ensure the power supply is completely off before beginning installation.
- Verify that the input voltage of the ballast matches the supply voltage.
- Do not operate the ballast with damaged wiring.
- Keep the ballast away from water or damp environments.
- Proper grounding is essential for safety.

## 3. PRODUCT OVERVIEW

The Technical Precision USB-0816-14 is a high-quality electronic ballast designed as a replacement unit for fluorescent lighting fixtures. It is engineered for reliable performance and compatibility with various lamp configurations. This product is supplied as a single replacement part.



**Figure 1:** An image showing the Technical Precision USB-0816-14 electronic ballast replacement unit. The white rectangular ballast has various colored wires (red, blue, yellow, black, white) extending from one end, bundled together. Product labels with specifications and wiring diagrams are visible on the ballast casing.

## 4. SETUP AND INSTALLATION

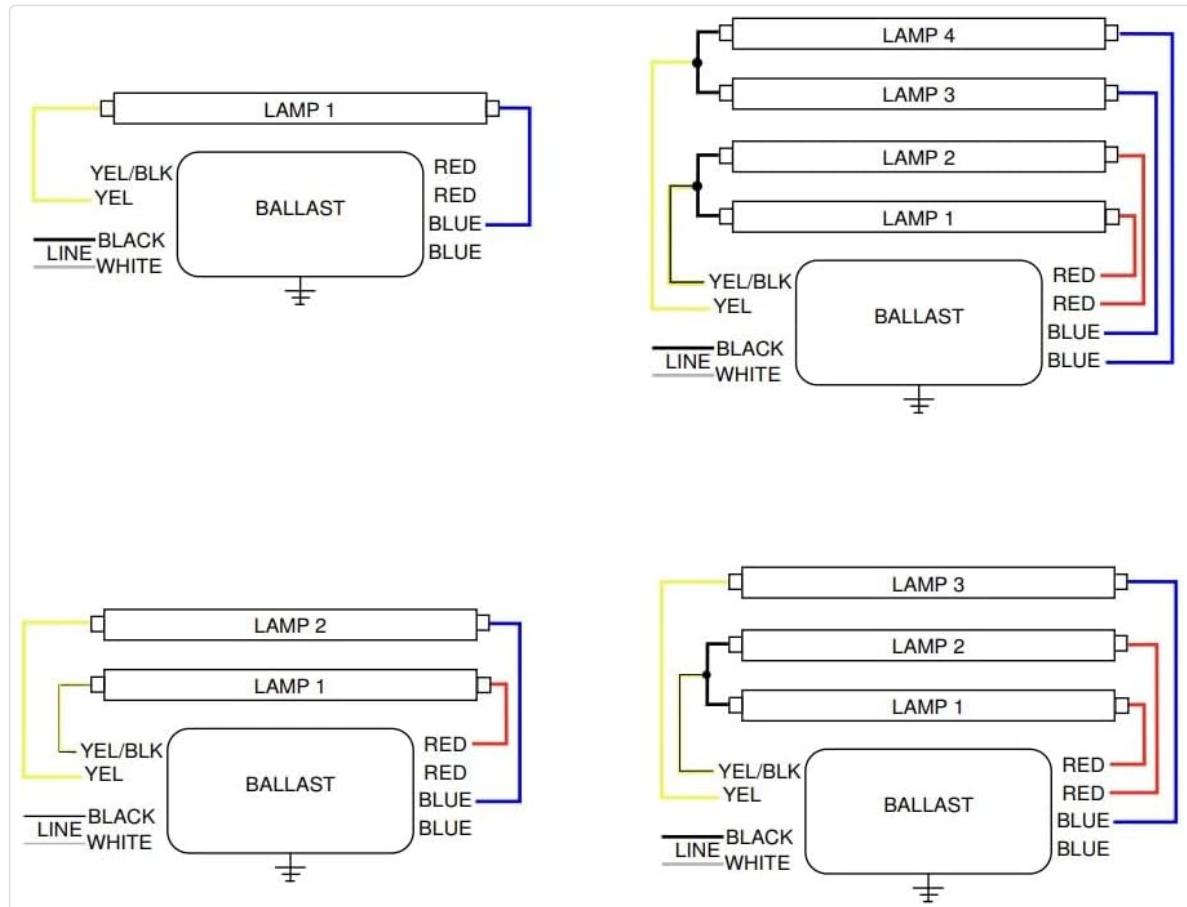
Follow these steps for safe and correct installation of the replacement ballast:

- 1. Disconnect Power:** Turn off the power to the lighting fixture at the circuit breaker. Verify power is off using a voltage tester.
- 2. Access Ballast:** Open the lighting fixture to access the existing ballast and wiring compartment.
- 3. Remove Old Ballast:** Carefully disconnect all wires from the old ballast. Note the wiring configuration or take a photograph for reference. Remove the old ballast from the fixture.
- 4. Mount New Ballast:** Secure the Technical Precision USB-0816-14 ballast in the fixture using appropriate mounting hardware.
- 5. Wire New Ballast:** Connect the wires of the new ballast according to the wiring diagrams provided below (Figure 2). Ensure all connections are secure and insulated.
- 6. Close Fixture:** Carefully close the lighting fixture, ensuring no wires are pinched.
- 7. Restore Power:** Turn the power back on at the circuit breaker and test the lighting fixture.

### 4.1. Wiring Diagrams

Refer to the following diagrams for correct wiring configurations based on the number of lamps in your

fixture:



**Figure 2:** Four separate wiring diagrams illustrating how to connect the Technical Precision USB-0816-14 ballast to fluorescent lamps. Each diagram shows the ballast connected to 1, 2, 3, or 4 lamps, detailing the connections for black, white, yellow, red, and blue wires to the lamps and power line. Ensure to match the diagram to your specific lamp configuration.

## 5. OPERATING INSTRUCTIONS

Once properly installed and wired, the Technical Precision USB-0816-14 Ballast Replacement operates automatically. When power is supplied to the lighting fixture, the ballast will ignite and maintain the fluorescent lamps.

## 6. MAINTENANCE

The Technical Precision USB-0816-14 Ballast Replacement is designed for maintenance-free operation. To ensure optimal performance and longevity:

- Ensure the lighting fixture is kept clean and free from dust and debris to prevent overheating.
- Periodically inspect wiring for any signs of wear or damage.
- Replace fluorescent lamps as recommended by the lamp manufacturer.

## 7. TROUBLESHOOTING

If your lighting fixture is not functioning correctly after ballast replacement, consider the following:

- **Lamps Not Lighting:**

- Verify that power is supplied to the fixture.
- Check all wiring connections for tightness and correctness according to the diagrams.
- Ensure the fluorescent lamps are properly seated and not faulty. Try replacing lamps with known good ones.

- **Flickering Lamps:**

- This can indicate a loose connection or a faulty lamp. Recheck wiring and lamp condition.

- **Humming Noise:**

- A slight hum is normal for some ballasts. If the hum is excessive, ensure the ballast is securely mounted and not vibrating against the fixture.

If issues persist, consult a qualified electrician or contact Technical Precision support.

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## 8. SPECIFICATIONS

- **Brand:** Technical Precision
- **Part Number:** USB-0816-14
- **Item Model Number:** USB-0816-14
- **Item Package Quantity:** 1
- **Included Components:** Replacement Part
- **Special Features:** Ergonomic (referring to design for ease of handling/installation)
- **Compatible Lamp Length:** 11.7 Inches (This refers to the length of the fluorescent lamps the ballast is designed to operate.)
- **ASIN:** B0BSVRFTZT
- **Date First Available:** September 27, 2020

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## 9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Technical Precision USB-0816-14 Ballast Replacement, please contact Technical Precision directly. You can find more information and contact details on the official Technical Precision store page:

[Technical Precision Store on Amazon](#)

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