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Technical Precision KTEB-240-1-TP

Technical Precision Fluorescent Light Ballast Instruction Manual

Model: KTEB-240-1-TP

Brand: Technical Precision

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Technical Precision Fluorescent Light Ballast, model KTEB-240-1-TP. This ballast is designed as a direct replacement for Keystone Technologies KTEB-240-1-TP, supporting two F34T12/F40T12 fluorescent lamps. Please read this manual thoroughly before installation to ensure safe and proper use.

SAFETY INFORMATION

WARNING: Risk of electric shock. Installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

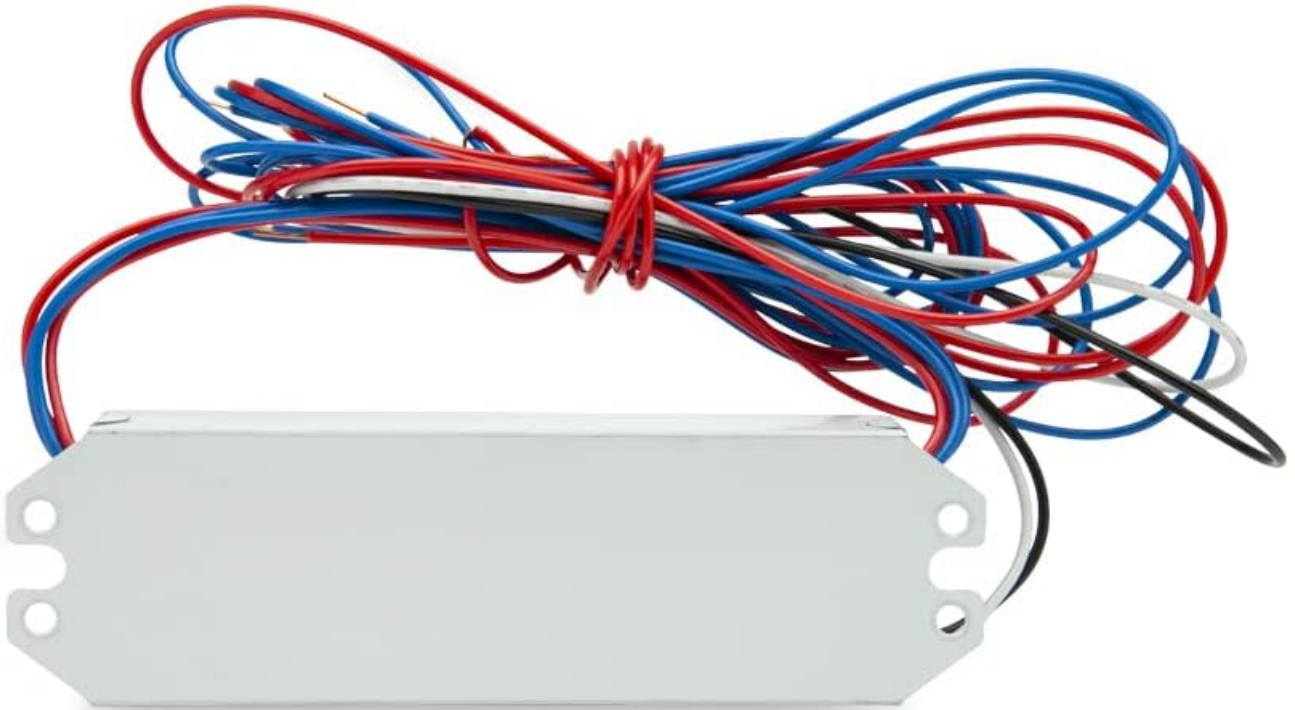
- Always disconnect power at the circuit breaker before installing or servicing the ballast.
- Ensure proper grounding to prevent electrical shock.
- Verify that the input voltage (120V 60Hz) matches the ballast specifications.
- Do not operate the ballast with damaged wiring or components.
- This ballast is designed for use with F34T12/F40T12 fluorescent lamps only. Using incompatible lamps may cause damage or fire.
- Keep away from water and damp locations.

PRODUCT OVERVIEW

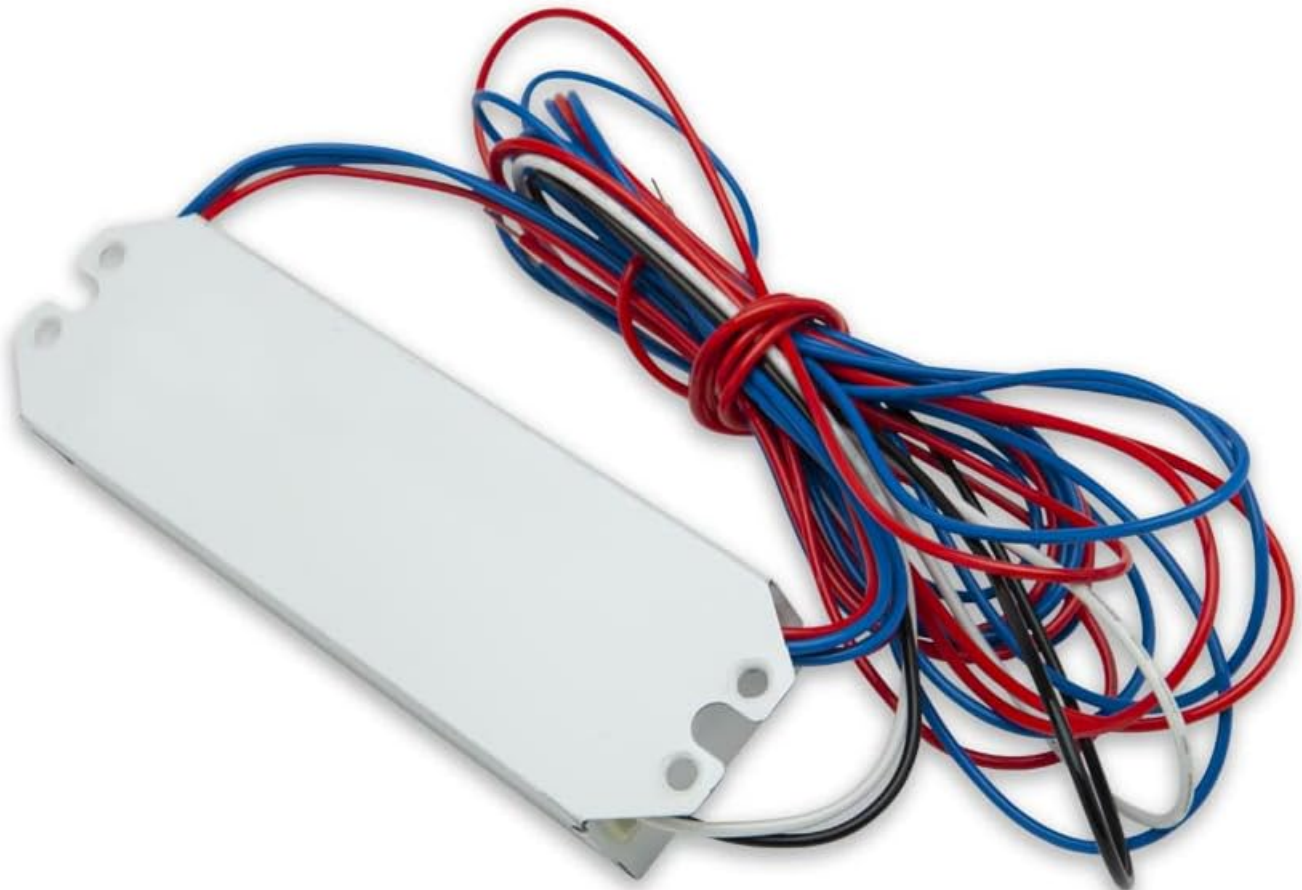
The Technical Precision KTEB-240-1-TP ballast is a compact, electronic ballast designed for reliable operation of fluorescent lighting systems. It features a durable casing and pre-wired leads for straightforward installation.



Front view of the Technical Precision Fluorescent Light Ballast, showing the model number and specifications label.



Top view of the ballast with its pre-attached red, blue, and black wiring for connection.



Side view of the ballast, highlighting its compact design and mounting tabs.

SETUP AND INSTALLATION

Follow these steps carefully for safe and correct installation:

1. **Power Disconnection:** Before beginning any work, turn off the power to the fixture at the circuit breaker. Verify power is off using a voltage tester.
2. **Access Ballast:** Open the fluorescent light fixture to access the existing ballast and wiring compartment.
3. **Disconnect Old Ballast:** Carefully disconnect all wires from the old ballast. Note the wiring configuration (e.g., input power, lamp connections). It is recommended to take a photo for reference.
4. **Remove Old Ballast:** Unscrew or unclip the old ballast from the fixture.
5. **Mount New Ballast:** Position the new Technical Precision KTEB-240-1-TP ballast in the fixture and secure it using appropriate screws or clips. Ensure it is firmly mounted.
6. **Wire Connections:** Connect the new ballast according to the wiring diagram provided on the ballast label or the fixture's original wiring.
 - Connect the **black** wire from the ballast to the 120V **ACline** (hot) wire.
 - Connect the **white** wire from the ballast to the 120V **ACneutral** wire.
 - Connect the **red** and **blue** wires from the ballast to the appropriate lamp sockets (usually one red and one blue wire per lamp). Refer to the ballast's specific wiring diagram for exact connections for two lamps.
 - Ensure all connections are secure using wire nuts or appropriate connectors.
7. **Install Lamps:** Insert the F34T12/F40T12 fluorescent lamps into their sockets.
8. **Close Fixture:** Carefully close the light fixture, ensuring no wires are pinched.
9. **Restore Power:** Turn the power back on at the circuit breaker.
10. **Test Operation:** Turn on the light switch to verify proper operation of the lamps.

OPERATING INSTRUCTIONS

Once installed, the ballast operates automatically. When power is supplied to the fixture, the ballast will ignite and regulate the current to the fluorescent lamps, providing stable illumination. No user interaction is required for operation beyond turning the light switch on or off.

MAINTENANCE

The Technical Precision KTEB-240-1-TP ballast is designed for long-term, maintenance-free operation. However, periodic checks of the lighting fixture are recommended:

- **Dust Removal:** Periodically clean dust and debris from the ballast and fixture to ensure proper heat dissipation. Always disconnect power before cleaning.
- **Wiring Inspection:** Annually inspect wiring connections for any signs of wear, fraying, or loose connections. Tighten or replace as necessary.
- **Lamp Replacement:** Replace fluorescent lamps when they reach their end of life or show signs of flickering or dimming. Ensure replacement lamps are compatible (F34T12/F40T12).
- **Professional Inspection:** If you notice persistent flickering, buzzing, or failure of lamps to ignite, consult a qualified electrician.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Lamps do not light up.	No power to fixture, faulty lamps, incorrect wiring, faulty ballast.	Check circuit breaker. Ensure light switch is on. Replace lamps. Verify wiring connections. If all else fails, ballast may need replacement.
Lamps flicker or hum.	Old or incompatible lamps, loose connections, ballast nearing end of life.	Replace lamps with new, compatible ones. Check and tighten all wiring connections. If problem persists, consider ballast replacement.
Lamps are dim.	Old lamps, incorrect lamp type, low voltage.	Replace lamps. Ensure correct F34T12/F40T12 lamps are used. Verify input voltage is 120V.
Ballast makes loud buzzing noise.	Loose mounting, internal component failure.	Ensure ballast is securely mounted. If noise persists, the ballast may be failing and should be replaced.

SPECIFICATIONS

Feature	Detail
Brand	Technical Precision
Model Number	KTEB-240-1-TP
Replacement For	Keystone Technologies KTEB-240-1-TP
Lamp Type Compatibility	F34T12/F40T12 Fluorescent Lamps
Number of Lamps	2
Input Voltage	120V AC
Frequency	60Hz
Wattage	40 watts (per lamp, typical for F40T12)
Material	stone
Included Components	Replacement Part (Ballast)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the seller's return policy or contact Technical Precision directly. The product is typically covered by a return policy of 30 days from the purchase date. Technical Precision prides itself on offering hard-to-find lighting and energy solutions.

Seller: Lean Light

For more information, visit the [Technical Precision Store on Amazon](#).