



Manuals.plus /

› Bussmann /

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## Bussmann TL-30PK4

# Bussmann TL-30PK4 Plug Fuse Instruction Manual

Model: TL-30PK4 | Brand: Bussmann

## 1. PRODUCT OVERVIEW

The Bussmann TL-30PK4 is a 30 Amp Time Delay, Loaded Link Edison Base Plug Fuse, UL Listed for 125V applications. This medium-duty Type TL fuse is designed for residential motor circuits found in kitchens, workshops, garages, utility rooms, or any circuit containing motors, relays, or solenoids. It features a time-delay characteristic to accommodate typical motor starting surges, preventing nuisance blowing while still providing essential circuit protection.

Plug fuses offer a compact and cost-effective method to safeguard electrical motors and reduce downtime by interrupting the circuit during dangerous overloads. They are commonly used in residential and industrial branch circuit and motor protection applications, such as for furnace blower motors, pumps, power tools, and garage door openers.



An image showing a single Bussmann TL-30PK4 30 Amp Time Delay Edison Base Plug Fuse. The fuse has a green top with 'Buss', 'TYPE TL', and 'AMP 30' printed on it, and a clear window showing the internal element. The base is brass-threaded.

## 2. SAFETY INFORMATION

**WARNING:** Electrical shock hazard. Always disconnect power at the main service panel before installing, removing, or inspecting fuses. Failure to do so may result in serious injury or death.

- Ensure the replacement fuse matches the original fuse's amperage and voltage ratings. Using an incorrect fuse can lead to fire, electrical damage, or personal injury.
- Do not bypass or tamper with fuses. Fuses are safety devices designed to protect electrical circuits and equipment.
- If you are unsure about any electrical work, consult a qualified electrician.

## 3. PACKAGE CONTENTS

- Bussmann TL-30PK4 30 Amp Time Delay, Loaded Link Edison Base Plug Fuse, 125V UL Listed (4-Pack)

## 4. PRODUCT FEATURES

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- Quantity: 4 Pack
- 30A, Type TL Plug Fuse
- Time Delay Fusetron
- Will withstand typical motor starting surges
- Designed for use in residential or light-duty circuits that contain electric motors
- Edison base size (brass threads)
- These fuses thread directly into fuse receptacles

## 5. SETUP AND INSTALLATION

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1. **Disconnect Power:** Locate the main service panel (fuse box) for your residence or facility. Turn off the main power switch or the specific circuit breaker that controls the circuit where the fuse will be installed or replaced. Verify that power is off using a voltage tester.
2. **Identify Fuse Receptacle:** Plug fuses are typically located in the main fuse panel or in a box cover unit. Identify the fuse receptacle requiring attention.
3. **Remove Old Fuse (if applicable):** If replacing a blown fuse, carefully unscrew the old fuse from its receptacle. Note the amperage rating of the old fuse.
4. **Verify Fuse Type:** Ensure the Bussmann TL-30PK4 fuse is the correct type (Edison Base with brass threads) and rating (30 Amp, 125V) for your application. This fuse type is **not** interchangeable with Rejection Base (porcelain threads) type fuses.
5. **Install New Fuse:** Thread the new Bussmann TL-30PK4 fuse into the fuse receptacle until it is snug. Do not overtighten.
6. **Restore Power:** Once the fuse is securely installed, restore power at the main service panel.

## 6. OPERATION

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The Bussmann TL-30PK4 fuse operates by providing overcurrent protection to electrical circuits. When the current flowing through the circuit exceeds the fuse's 30 Amp rating, the internal element heats up and melts, thereby opening the circuit and stopping the flow of electricity. This prevents damage to wiring, appliances, and other electrical components.

As a time-delay fuse, the TL-30PK4 is specifically designed to tolerate temporary, harmless overcurrents, such as the brief surge of current that occurs when a motor starts. This time-delay feature prevents the fuse from blowing unnecessarily during normal motor startup, while still providing protection against sustained overloads or short circuits.

## 7. MAINTENANCE

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Fuses are generally maintenance-free components. Their primary function is to act as a sacrificial device to protect your electrical system. The only maintenance required is replacement when a fuse blows.

- **Regular Inspection:** Periodically inspect your fuse panel for any signs of damage or loose connections.
- **Proper Replacement:** Always replace a blown fuse with a new fuse of the exact same type and rating (e.g., 30 Amp, Type TL, Edison Base). Never use a fuse with a higher rating or bypass a fuse, as this can create a serious fire hazard.

- **Investigate Cause:** If a fuse blows repeatedly, it indicates an underlying electrical issue such as an overloaded circuit, a short circuit, or a faulty appliance. Do not simply replace the fuse without investigating and resolving the root cause. Consult a qualified electrician if you cannot identify the problem.

## 8. TROUBLESHOOTING

If a circuit loses power, the first step is to check the corresponding fuse in your fuse panel.

Symptom	Possible Cause	Action
No power to a circuit/device	Blown fuse	Disconnect power, identify the blown fuse (often has a visible break in the element or a darkened window), and replace it with a new fuse of the correct type and rating.
Fuse blows immediately after replacement	Short circuit or severe overload	Immediately disconnect power. Unplug all devices from the circuit. If the fuse still blows, there may be a wiring issue. Consult a qualified electrician.
Fuse blows repeatedly after a delay	Sustained overload	Reduce the number of devices or appliances connected to the circuit. Ensure that the total current draw does not exceed the circuit's capacity.

## 9. SPECIFICATIONS

Attribute	Value
Brand	Bussmann
Item Model Number	TL-30PK4
AC Adapter Current	30 Amps
Voltage	125 Volts
Product Dimensions (L x W x H)	2.37 x 2.25 x 1.25 inches
Item Weight	2.89 ounces
Material	Plastic (housing)
Manufacturer	Bussmann
Country of Origin	China
Date First Available	February 17, 2007

## 10. WARRANTY INFORMATION

Bussmann products are manufactured to high-quality standards. For specific warranty details, please refer to the packaging or contact Bussmann customer support directly. Fuses are consumable items designed to protect circuits

and are typically not covered under long-term warranties once installed, as their operation involves self-destruction to prevent damage to other components.

## **11. CUSTOMER SUPPORT**

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For technical assistance, product inquiries, or further information regarding Bussmann fuses, please visit the official Bussmann website or contact their customer service department. Contact information can typically be found on the product packaging or on the manufacturer's website.