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Iron Box IBX-6218

Iron Box 6-15P NEMA Straight Blade Power Cord Plug User Manual

Model: IBX-6218

Introduction

This manual provides essential instructions for the safe and effective use, installation, and maintenance of your Iron Box 6-15P NEMA Straight Blade 15 Amp, 250V Power Cord Plug (Model IBX-6218). Please read this manual thoroughly before installation and operation to ensure proper function and safety.

Important Safety Information

WARNING: Risk of Electric Shock or Fire.

- Always disconnect power at the circuit breaker or fuse box before installing or servicing electrical components.
- Installation should only be performed by a qualified electrician or knowledgeable individual familiar with electrical wiring practices and local electrical codes.
- Ensure the voltage and amperage ratings of the plug match the circuit and the equipment it will power. This plug is rated for 15 Amps, 250 Volts.
- Do not use this plug if it appears damaged.
- Keep children away from electrical components.
- Ensure all connections are tight and secure to prevent overheating and fire hazards.

Product Overview

The Iron Box 6-15P NEMA Straight Blade Power Cord Plug is designed for reliable electrical connections in 250V, 15 Amp applications. It features a durable nylon housing for longevity and resistance to impact.

Key Features:

- Durable nylon housing
- Rated for 15A, 250V
- NEMA 6-15P Plug configuration

- Also known as "T-Slot"
- Mates with a 6-15R Receptacle



Image: Front view of the Iron Box 6-15P NEMA Straight Blade Power Cord Plug, featuring three brass blades for electrical connection. The plug has a black and white housing.

Setup and Installation

Follow these steps carefully to install the Iron Box 6-15P plug onto a power cord. Ensure power is disconnected before beginning.

1. **Prepare the Cable:** Strip the outer jacket of your power cord back approximately 1.5 to 2 inches (3.8 to 5 cm) to expose the individual insulated wires (typically two hot wires and one ground wire). Then, strip about 1/2 inch (1.2 cm) of insulation from the end of each individual wire.
2. **Disassemble the Plug:** Unscrew the housing of the 6-15P plug to separate the front and back sections. You will typically find a wiring block with screw terminals.

3. **Identify Terminals:** The NEMA 6-15P plug has three terminals: two hot (line) terminals and one ground terminal. The ground terminal is typically green or marked with a ground symbol, and the two hot terminals are usually brass-colored. For a 6-15P, both hot terminals carry 120V relative to ground, with 240V between them.
4. **Connect Wires:**
    - Connect the ground wire (usually green or bare copper) to the ground terminal.
    - Connect the two hot wires (usually black and red, or two black wires) to the two brass-colored hot terminals.

    Ensure that no stray wire strands are loose and that all connections are tight.
5. **Secure the Cable:** Route the cable through the strain relief mechanism within the plug housing. Tighten the strain relief to prevent the cable from being pulled out of the terminals.
6. **Reassemble the Plug:** Carefully reassemble the plug housing, ensuring no wires are pinched. Tighten all screws securely.
7. **Test:** Before connecting to equipment, verify all connections with a multimeter to ensure correct wiring and continuity.



Image: Rear view of the Iron Box 6-15P NEMA Straight Blade Power Cord Plug, displaying the internal screw terminals where the power cord wires are connected. The housing is black and white.

Operation

Once properly wired and installed, the Iron Box 6-15P plug is ready for use.

- **Connection:** Insert the plug firmly into a compatible NEMA 6-15R receptacle. Ensure a snug fit.
- **Disconnection:** To disconnect, grasp the plug body and pull it straight out from the receptacle. Do not pull by the cord itself, as this can damage the wiring or the plug.
- **Usage Environment:** Use the plug in dry conditions, suitable for its electrical rating. Avoid exposing it to moisture or extreme temperatures.

Maintenance

Regular inspection and basic maintenance can extend the life of your power cord plug.

- **Visual Inspection:** Periodically inspect the plug for any signs of damage, such as cracks in the housing, bent or discolored blades, or frayed wiring near the strain relief.
- **Cleaning:** If necessary, clean the exterior of the plug with a dry, lint-free cloth. Do not use liquid cleaners or immerse the plug in water.
- **Connection Check:** If the plug is frequently moved or subjected to stress, occasionally check the internal wiring connections for tightness. Ensure power is disconnected before opening the plug.

Troubleshooting

If you encounter issues with your Iron Box 6-15P plug, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power to connected device.	Loose wiring connections inside the plug. Faulty receptacle. Tripped circuit breaker or blown fuse. Damaged power cord or plug.	Disconnect power, open plug, and tighten all terminal screws. Test the receptacle with another known working device. Reset the circuit breaker or replace the fuse. Inspect the plug and cord for damage; replace if necessary.
Plug feels warm during use.	Overloaded circuit. Loose connections. Damaged plug or receptacle.	Reduce the load on the circuit. Disconnect power, open plug, and tighten all terminal screws. Inspect for damage; replace if necessary. Discontinue use immediately if overheating occurs.

If troubleshooting steps do not resolve the issue, consult a qualified electrician.

Specifications

Feature	Detail
Model Number	IBX-6218

Feature	Detail
Connector Type	NEMA 6-15P Straight Blade Plug
Voltage Rating	250 Volts
Amperage Rating	15 Amps
Material	Durable Nylon Housing
Color	Black
Item Weight	6.4 ounces
Manufacturer	Iron Box

Support and Contact

For further assistance or inquiries regarding your Iron Box 6-15P NEMA Straight Blade Power Cord Plug, please visit the official Iron Box website or contact customer support.
Manufacturer: Iron Box
Website: Iron Box Store on Amazon
Iron Box is committed to providing high-quality power solutions and excellent customer service.

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