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Iron Box IBX-6217

Iron Box IBX-515P 5-15 Plug Instruction Manual

Model: IBX-6217

1. Product Overview

The Iron Box IBX-515P is a high-quality, 3-wire electrical plug designed for reliable power connections. This 15 Amp, 125 Volt plug is suitable for a wide range of applications, ensuring a secure and stable electrical connection. It is UL certified, indicating compliance with recognized safety standards.



Image 1.1: The Iron Box IBX-515P 5-15 Plug, a 15A, 125V, 3-wire electrical connector.

Key features include a robust construction for durability and a design optimized for ease of installation and safe operation.

2. Safety Information

Always prioritize safety when working with electrical components. Read and understand all instructions before installation or use. Failure to follow these safety guidelines may result in electric shock, fire, or personal injury.

- **Disconnect Power:** Always ensure power is disconnected at the circuit breaker or fuse box before attempting any wiring or installation.
- **Qualified Personnel:** Installation and wiring should be performed by a qualified electrician or knowledgeable individual familiar with electrical codes and practices.
- **Proper Grounding:** Ensure the plug is correctly grounded to prevent electrical shock. This plug is a 3-wire type, requiring a proper ground connection.
- **Voltage and Amperage:** Verify that the voltage and amperage ratings of the circuit and connected device match the plug's specifications (15A, 125V).
- **Avoid Overloading:** Do not overload circuits. Ensure the total current draw of connected devices does not exceed the circuit's capacity or the plug's rating.
- **Inspect for Damage:** Before each use, inspect the plug and any connected cords for signs of damage, fraying, or exposed wires. Do not use damaged equipment.
- **Dry Environment:** Use in dry conditions. Avoid exposure to moisture or wet environments unless the plug is specifically rated for such use.



Image 2.1: Illustration of robust construction for secure and safe electrical connections.

3. Installation and Wiring

This section provides general guidance for wiring a 5-15P plug. Specific wiring instructions may vary based on the cable type and local electrical codes. Always consult a qualified electrician if you are unsure.

Tools Required:

- Wire strippers
- Screwdriver (Phillips and/or flathead, depending on plug terminals)
- Utility knife (optional, for outer jacket)

Wiring Steps:

1. **Prepare the Cable:** Carefully cut the outer jacket of your power cable to expose the insulated wires (typically black, white, and green/bare copper). Ensure not to cut the insulation of the inner wires.
2. **Strip Wires:** Strip approximately 1/2 to 3/4 inch of insulation from the end of each inner wire (black, white, green/bare copper). Twist stranded wires tightly to prevent stray strands.

3. **Open the Plug:** Disassemble the plug housing to access the terminal screws.
4. **Connect Wires:**
    - Connect the **green** or **bare copper** wire (ground) to the **green** terminal screw.
    - Connect the **white** wire (neutral) to the **silver** terminal screw.
    - Connect the **black** wire (hot/live) to the **brass** terminal screw.
5. **Secure Connections:** Ensure all wire connections are tight and secure. No bare wire should be exposed outside the terminal screws.
6. **Reassemble Plug:** Carefully reassemble the plug housing, ensuring the wires are not pinched and the strain relief mechanism is properly engaged to prevent tension on the wire connections.
7. **Final Check:** Visually inspect the assembled plug for any exposed wires or loose parts before connecting to power.

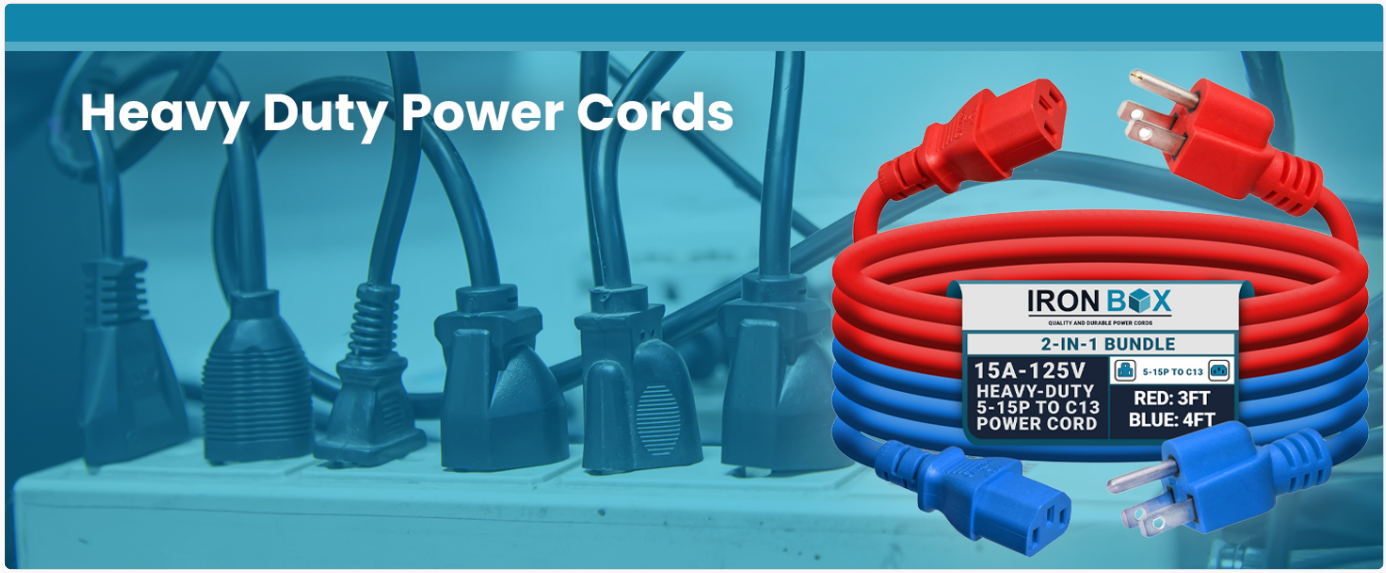


Image 3.1: Example of a durable cable construction, highlighting the importance of proper wire preparation.

4. Operation

Once properly wired and installed, operating the Iron Box IBX-515P plug is straightforward:

1. **Connect to Receptacle:** Insert the plug firmly into a compatible 5-15R wall receptacle or extension cord. Ensure a snug fit.
2. **Connect Device:** Connect the other end of the power cord (to which the IBX-515P is attached) to your electrical device or appliance.
3. **Apply Power:** Turn on the power at the circuit breaker, if it was previously off.

The plug is designed for continuous use within its specified voltage and amperage ratings. Always ensure the connected device is functioning correctly and there are no signs of overheating or electrical issues.

5. Maintenance

The Iron Box IBX-515P plug requires minimal maintenance to ensure long-term performance and safety.

- **Regular Inspection:** Periodically inspect the plug for any physical damage, cracks, discoloration, or signs of wear. Check the prongs for bending or corrosion.
- **Cleanliness:** Keep the plug clean and free from dust, dirt, and debris. Use a dry cloth to wipe the exterior. Do not use liquid cleaners directly on the plug.
- **Storage:** When not in use, store the plug and its connected cable in a dry, cool place, away from direct sunlight and extreme temperatures. Avoid kinking or tightly coiling the cable.

- **Avoid Stress:** Do not pull the plug from the outlet by the cord. Always grasp the plug body firmly. Avoid placing heavy objects on the cord or running it through doorways where it might be pinched.

6. Troubleshooting

If you encounter issues with your Iron Box IBX-515P plug, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
No power to device	Loose connection, tripped circuit breaker, faulty outlet, damaged plug/cord.	Check plug connection, reset circuit breaker, test outlet with another device, inspect plug/cord for damage. Re-wire if connections are loose (with power off).
Plug feels warm	Overloaded circuit, loose connections, faulty device.	Disconnect device immediately. Reduce load on circuit. Check for loose wiring inside the plug (with power off). If problem persists, discontinue use and consult an electrician.
Sparks or unusual odors	Short circuit, damaged wiring, internal fault.	**Immediately disconnect power at the source.** Do not use the plug or device. Consult a qualified electrician.

If troubleshooting does not resolve the issue, or if you suspect a serious electrical problem, discontinue use and contact a qualified electrician or Iron Box customer support.

7. Specifications

Feature	Detail
Model Number	IBX-6217
Plug Type	NEMA 5-15P
Amperage Rating	15 Amps
Voltage Rating	125 Volts
Wire Configuration	3-Wire (Hot, Neutral, Ground)
Certification	UL Listed
Dimensions (approx.)	3 x 1 x 1 inches
Item Weight (approx.)	6.4 ounces
Manufacturer	Iron Box

8. Warranty and Support

Iron Box products are manufactured to high standards of quality and durability. For specific warranty information, please refer to the product packaging or the official Iron Box website. If you have any questions, require technical assistance, or need to report an issue, please contact Iron Box customer support.

Contact Information:

- Visit the Iron Box Store on Amazon for more information and support resources.

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