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› [Iron Box Pass & Seymour NEMA 5-20P Straight Blade Plug \(Model IBX-6217\) Instruction Manual](#)

Iron Box IBX-6217

Iron Box Pass & Seymour NEMA 5-20P Straight Blade Plug

Model: IBX-6217 | 20 Amp, 125 Volt

1. PRODUCT OVERVIEW

This manual provides instructions for the Iron Box Pass & Seymour NEMA 5-20P Straight Blade Plug, Model IBX-6217. This plug is designed for reliable electrical connections, rated for 20 Amperes and 125 Volts. It is a male plug intended to mate with a NEMA 5-20R receptacle and is UL Listed for safety and quality assurance.



Figure 1: Angled view of the NEMA 5-20P Straight Blade Plug, showing the three prongs and robust housing.

2. SAFETY INFORMATION

Read and understand all safety instructions before installing or using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Disconnect Power:** Always ensure power is disconnected at the circuit breaker or fuse box before working with electrical wiring or components.
- **Qualified Personnel:** Installation and wiring should only be performed by qualified electricians or individuals with appropriate electrical knowledge.
- **Proper Rating:** Ensure the plug's rating (20A, 125V) matches the requirements of the circuit and connected equipment.
- **Grounding:** This plug is a 3-wire grounding type. Ensure proper grounding is maintained throughout the installation.
- **Environmental Conditions:** Do not use in wet or damp locations unless specifically rated for such environments.
- **Inspect for Damage:** Before each use, inspect the plug for any signs of damage, cracks, or exposed wires. Do not use if damaged.

3. SETUP AND INSTALLATION

This section outlines the general steps for wiring the NEMA 5-20P plug to a power cord. Specific wire gauges and insulation stripping lengths may vary based on the cable used. Always consult local electrical codes and standards.

Required Tools:

- Wire strippers
- Screwdriver (Phillips or flathead, depending on screw type)
- Utility knife (for outer jacket)

Installation Steps:

1. **Prepare the Cable:** Carefully strip the outer jacket of your power cord to expose the insulated conductors (typically black, white, and green/bare copper). Ensure not to damage the inner insulation.
2. **Disassemble the Plug:** Unscrew the housing screws on the plug to separate the front and rear sections.
3. **Insert Cable:** Thread the prepared power cord through the rear section of the plug housing.
4. **Strip Conductors:** Strip approximately 1/2 inch (12-15mm) of insulation from each conductor (black, white, green/bare copper).
5. **Connect Wires:**

- Connect the **black** (hot/line) wire to the **brass-colored** terminal screw.
- Connect the **white** (neutral) wire to the **silver-colored** terminal screw.
- Connect the **green** or bare copper (ground) wire to the **green-colored** terminal screw.

Ensure all wire strands are securely under the screw head and tightened firmly to prevent loose connections, which can cause overheating.



Figure 2: End view of the plug, illustrating the internal channels for wire connection.

6. **Secure Cable:** Ensure the cable clamp or strain relief mechanism within the plug housing is tightened securely around the outer jacket of the power cord. This prevents tension on the wire connections.
7. **Reassemble Plug:** Carefully align the front and rear sections of the plug housing and secure them with the screws. Ensure no wires are pinched and the housing is fully closed.

4. OPERATING INSTRUCTIONS

Once properly wired and assembled, the NEMA 5-20P plug functions as a standard electrical connector.

1. **Connect to Receptacle:** Insert the NEMA 5-20P plug firmly into a compatible NEMA 5-20R wall receptacle or extension cord. Ensure a snug fit.
2. **Power On:** If applicable, turn on the power to the circuit at the breaker.
3. **Disconnect:** To disconnect, grasp the plug body firmly and pull it straight out from the receptacle. Do not pull by the cord.



Figure 3: Side view of the plug, displaying the 'Pass & Seymour' branding and robust construction.

5. MAINTENANCE

The NEMA 5-20P plug requires minimal maintenance to ensure continued safe and reliable operation.

- **Regular Inspection:** Periodically inspect the plug for any signs of wear, damage, discoloration, or loose connections.
- **Cleaning:** If necessary, clean the exterior of the plug with a dry, lint-free cloth. Do not use liquid cleaners or solvents. Ensure the plug is disconnected from power before cleaning.
- **Tighten Screws:** If any screws appear loose, carefully tighten them while ensuring power is disconnected.
- **Storage:** Store the plug and attached cord in a dry, clean environment away from extreme temperatures and direct sunlight.

6. TROUBLESHOOTING

If you encounter issues with the NEMA 5-20P plug, consider the following troubleshooting steps:

- **No Power to Device:**

- Check if the plug is fully inserted into the receptacle.
- Verify that the circuit breaker for the outlet has not tripped.
- Ensure the connected power cord is not damaged.
- Inspect the internal wiring of the plug for loose connections (**ensure power is disconnected first!**).

- **Plug Feels Hot:**

- Immediately disconnect power.
- This could indicate an overload or a loose connection. Verify the current draw of the connected device does not exceed the plug's 20A rating.
- Re-check all wire connections inside the plug for tightness.

- **Loose Fit in Receptacle:**

- The receptacle may be worn and require replacement by a qualified electrician.
- Ensure the plug is not damaged.

If problems persist after troubleshooting, discontinue use and consult a qualified electrician.

7. SPECIFICATIONS

Feature	Detail
Model Number	IBX-6217
Plug Type	NEMA 5-20P Straight Blade Male Plug
Electrical Rating	20 Amperes, 125 Volts
Mates With	NEMA 5-20R Receptacle
Number of Wires	3 (Hot, Neutral, Ground)
Plug Format	Type B
Certification	UL Listed
Package Dimensions	3 x 1 x 1 inches
Item Weight	3.2 ounces
Manufacturer	Iron Box

8. WARRANTY AND SUPPORT

For warranty information and customer support regarding your Iron Box Pass & Seymour NEMA 5-20P Straight Blade Plug, please refer to the official Iron Box website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

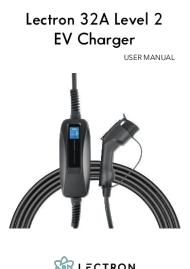
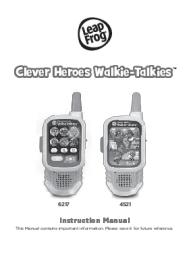
Iron Box Customer Support:

- Visit the [Iron Box Store on Amazon](#) for product information and contact options.

- Refer to the packaging or original purchase documentation for specific warranty terms and contact details.

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Related Documents - IBX-6217

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