Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Iron Box IBX-L1430PR

IronBox Electric L14-30P + L14-30R Generator Plug & Connector Set User Manual

Model: IBX-L1430PR | Brand: Iron Box

1. Introduction

This manual provides essential information for the safe and effective use of your IronBox Electric L14-30P Plug and L14-30R Connector Set. This set is designed for reliable power connections, rated for 30 Amps and 125/250 Volts, suitable for 7500W generators and various industrial applications. Please read all instructions carefully before installation and operation.



Image 1.1: The IronBox Electric L14-30P Plug and L14-30R Connector Set, designed for generator power connections.

2. Safety Information

WARNING: Electrical shock hazard. Improper installation or use can result in serious injury or death. Always follow local electrical codes and safety guidelines.

- Always disconnect power before installing or servicing the plug and connector.
- Ensure all wiring connections are secure and correct according to the wiring diagram.
- Do not use if the product appears damaged or worn.
- This product is intended for use with compatible 30A, 125/250V, 4-prong receptacles and cables.
- Keep away from water and damp conditions during operation.



Image 2.1: Proper connection ensures safety and reliability in power management.

3. Product Overview

The IronBox Electric L14-30P + L14-30R Generator Plug and Connector Set provides a robust and reliable solution for your power needs. Key features include:

- **Robust Design:** Built with industrial-grade components, UL Listed and rigorously tested for reliable performance in diverse conditions.
- **Universal Compatibility:** Rated for 30 amps and 125/250 volts, efficiently connects with most 7500W generators.
- **Enhanced Durability:** Constructed with tough Dupont nylon housing, resistant to impacts and harsh weather. Features an internal dust boot and strain relief.
- **Flexible Installation Options:** Designed for easy installation on either 10/4 or 8/4 AWG electrical cable.
- **Secure Connection:** Features a twist-lock mechanism to prevent accidental disconnection.



Image 3.1: Detailed view of the L14-30P plug and L14-30R connector, highlighting their 30A, 125/250V rating.

4. Package Contents

Your IronBox Electric L14-30P + L14-30R Generator Plug and Connector Set includes:

- 1 x L14-30P Generator Plug (4-prong, 30A, 125/250V)
- 1 x L14-30R Generator Connector (4-prong, 30A, 125/250V)
- Cable clamp inserts (various sizes for 10/4 or 8/4 AWG cable)



Image 4.1: The product packaging for the L14-30P and L14-30R set.

5. Setup Instructions

Follow these steps to properly wire your L14-30P plug and L14-30R connector to your electrical cable.

1. **Prepare the Cable:** Strip the outer jacket of your 10/4 or 8/4 AWG electrical cable to expose approximately 2-3 inches of individual wires. Carefully strip about 3/4 inch of insulation from each individual wire (Black, Red, White, Green/Ground).
2. **Disassemble the Plug/Connector:** Unscrew the housing of the L14-30P plug or L14-30R connector to access the internal terminals. Remove the strain relief and dust boot.
3. **Insert Wires:** Thread the cable through the strain relief and dust boot, then through the housing. Connect each wire to its corresponding terminal screw:
    - **Green wire:** Connect to the Ground (G) terminal.
    - **White wire:** Connect to the Neutral (W) terminal.
    - **Black wire:** Connect to one Hot (X or Y) terminal.

- **Red wire:** Connect to the other Hot (X or Y) terminal.

Ensure all wire strands are securely under the terminal screws and tightened firmly.

4. **Secure the Cable:** Re-position the dust boot and strain relief around the cable, then reassemble the housing. Ensure the strain relief is tightened to prevent cable pull-out and protect connections.

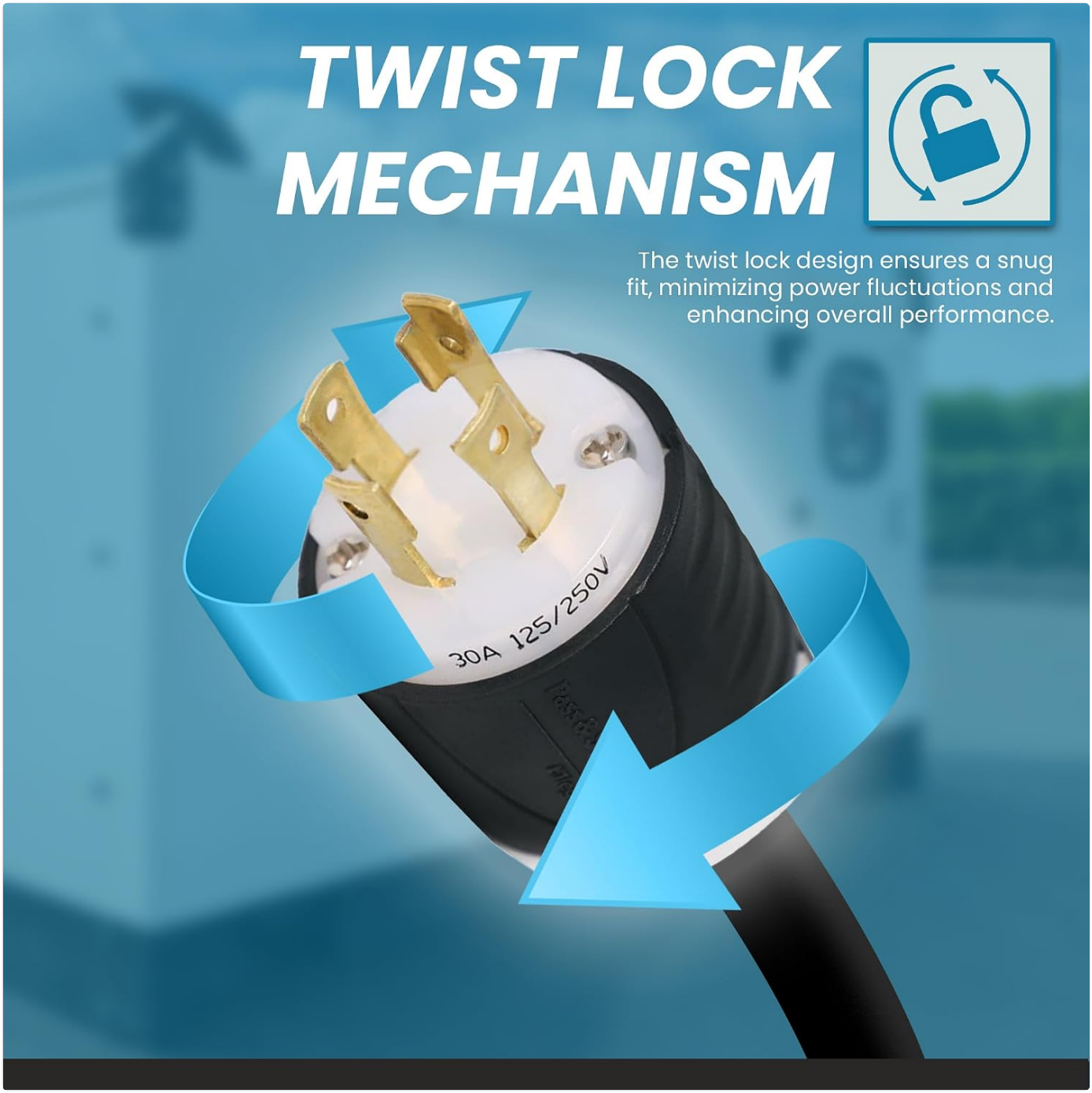


Image 5.1: Internal view of the plug terminals for proper wire connection.



Image 5.2: An electrician demonstrating the process of wiring, relevant for cable preparation.

6. Operating Instructions

Once the L14-30P plug and L14-30R connector are properly wired to your cable, follow these steps for operation:

1. **Connect to Power Source:** Insert the L14-30P plug into the compatible L14-30R generator outlet. Align the prongs with the slots and push firmly.
2. **Engage Twist-Lock:** Once fully inserted, twist the plug clockwise to engage the twist-lock mechanism. This secures the connection and prevents accidental disengagement.
3. **Connect to Load:** Connect the L14-30R connector end of your cable to the device or transfer switch requiring power.
4. **Apply Power:** Start your generator or activate the power source. Monitor for proper operation.
5. **Disconnecting:** To disconnect, ensure the power source is off. Twist the plug counter-clockwise to disengage the twist-lock, then pull firmly to remove.



Image 6.1: The L14-30P plug securely connected to a generator's power outlet.



Image 6.2: The twist-lock feature ensures a secure and stable electrical connection.

Your browser does not support the video tag.

Video 6.1: An official product video demonstrating the features and use of the L14-30 Generator Plug and Connector Set.

7. Maintenance

Regular inspection and proper care will extend the lifespan and ensure the safe operation of your IronBox Electric L14-30P + L14-30R set.

- **Visual Inspection:** Before each use, inspect the plug and connector for any signs of damage, cracks, frayed wires, or corrosion on the prongs.
- **Cleaning:** Keep the plug and connector clean and free from dirt, dust, and moisture. Use a dry cloth to wipe surfaces. Do not use liquid cleaners directly on electrical contacts.
- **Storage:** Store the plug and connector in a dry, clean environment when not in use. Avoid extreme temperatures.
- **Connection Integrity:** Periodically check the tightness of the terminal screws inside the housing. Loose connections can cause overheating and electrical hazards.

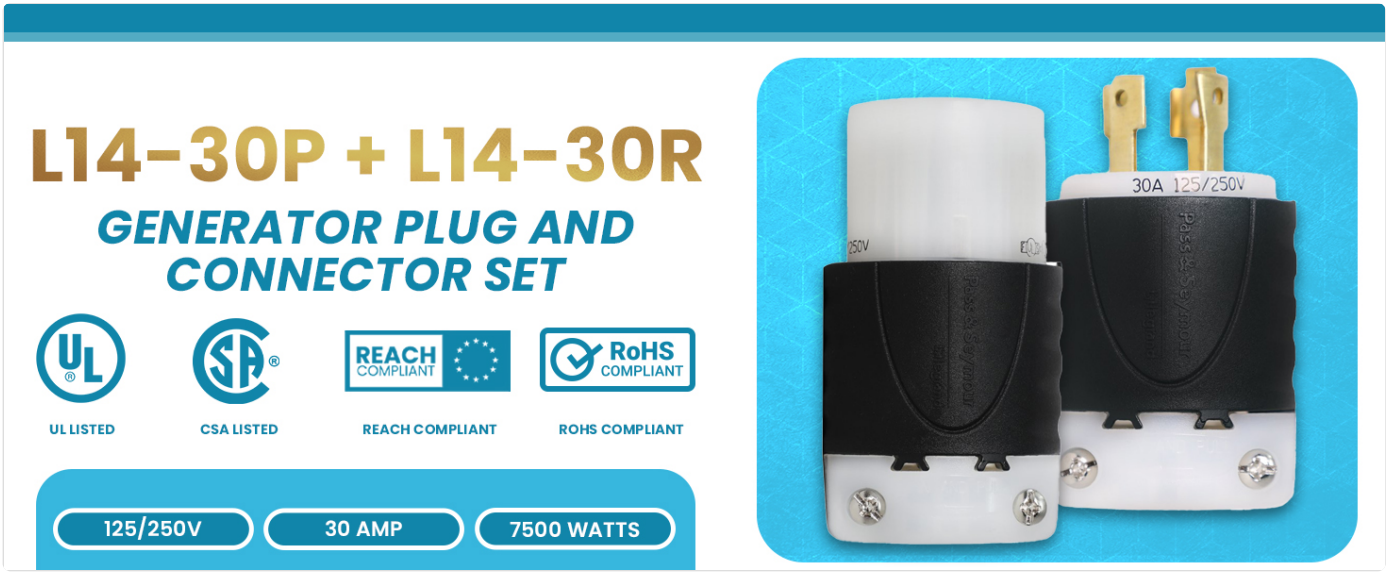


Image 7.1: The robust construction of the connectors supports long-term durability with proper maintenance.

8. Troubleshooting

If you encounter issues with your IronBox Electric L14-30P + L14-30R set, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power to connected device	Loose wiring connection Generator/power source off Circuit breaker tripped Damaged cable/connector	Check internal wiring for tightness. Ensure generator is running and outputting power. Reset the circuit breaker on the generator or panel. Inspect cable and connector for damage; replace if necessary.
Plug/Connector feels hot	Overload Loose connection Damaged component	Reduce load on the circuit. Check and tighten all wiring connections. Discontinue use and replace the component.
Plug does not twist-lock	Incorrect alignment Debris in receptacle	Ensure prongs are fully inserted and aligned with slots. Inspect receptacle for obstructions and clean if necessary.

9. Specifications

Feature	Detail
Brand	Iron Box
Model	IBX-L1430PR
Amperage	30 Amps
Voltage	125/250 Volts
Number of Poles	4
Number of Wires	4
Connector Type	Plug in (L14-30P) and Connector (L14-30R)
Plug Type	In-line, Twist-Lock

Feature	Detail
Material	Dupont Nylon Housing, Brass Contacts
Certifications	UL Listed
Compatible Cable AWG	10/4 or 8/4 AWG
Item Weight	8 ounces (approximate for the set)

10. Warranty and Support

Iron Box products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the product packaging or contact Iron Box customer service directly.

Customer Service: Please visit the official Iron Box website for contact details and support resources.

© 2023 Iron Box. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B07ZDKC697

More documents and user manuals: **https://manuals.plus/**