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## Leviton BR20-I



# Leviton 20-Amp 125-Volt BR20-I Commercial Grade Duplex Receptacle Instruction Manual

Model: BR20-I

## 1. INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of the Leviton 20-Amp, 125-Volt, Narrow Body Duplex Receptacle, Model BR20-I. Please read this manual thoroughly before beginning any installation or use to ensure proper function and safety.

## 2. IMPORTANT SAFETY INFORMATION

### **WARNING: RISK OF ELECTRIC SHOCK. SERIOUS INJURY OR DEATH MAY RESULT.**

- Always turn off power at the circuit breaker or fuse box before installing or servicing this device.
- Installation must be performed by a qualified electrician or a person with a thorough understanding of electrical wiring practices.
- Ensure all wiring connections are secure and comply with local and national electrical codes.
- Do not use this device if it appears damaged.
- This receptacle is designed for indoor use in dry locations only.
- Use only copper or copper-clad wire.

## 3. PRODUCT OVERVIEW

The Leviton BR20-I is a commercial-grade, 20-Amp, 125-Volt duplex receptacle designed for demanding environments such as hotels, schools, hospitals, and commercial office buildings. It features a narrow body for maximum wiring room and self-grounding capabilities.



Figure 1: Front view of the Leviton BR20-I 20-Amp 125-Volt Duplex Receptacle in Ivory.

### Key Features:

- **20-Amp, 125-Volt Rating:** Suitable for higher current applications.
- **Narrow Body Design:** Provides ample wiring space within the electrical box.
- **Commercial Grade:** Built to withstand demanding use.
- **Self-Grounding:** Automatically grounds to a properly grounded metal wall box.
- **Large-Head Terminal Screws:** Backed out and staked, designed to accept No. 10 copper or copper-clad wire.
- **Heavy-Duty Brass Power Contacts:** Ensures maximum conductivity and secure plug retention.

- **Heavy-Gauge, Rust-Resistant Steel Mounting Strap:** Provides durability and secure installation.
- **Captive Mounting Screws:** For fast and convenient installation.

## 4. INSTALLATION INSTRUCTIONS

Follow these steps carefully to install your Leviton BR20-I duplex receptacle:

1. **Turn Off Power:** Locate the circuit breaker or fuse that controls the outlet you are working on and turn off the power. Verify the power is off using a voltage tester.
2. **Remove Old Receptacle (if applicable):** Unscrew the wallplate and then the mounting screws holding the old receptacle in the electrical box. Carefully pull the old receptacle out of the box.
3. **Disconnect Wires:** Disconnect the wires from the old receptacle. Note which wire was connected to which terminal (hot, neutral, ground). Typically, black wires are hot, white wires are neutral, and bare copper or green wires are ground.
4. **Prepare Wires:** Strip approximately 1/2 inch (12.7 mm) of insulation from the end of each wire. For solid wire, create a hook shape at the end of each wire.
5. **Connect Ground Wire:** Connect the bare copper or green insulated ground wire to the green grounding screw on the receptacle. Ensure the wire forms a full loop around the screw in a clockwise direction and tighten securely.
6. **Connect Neutral Wire:** Connect the white (neutral) wire to one of the silver-colored terminal screws. Ensure the wire forms a full loop around the screw in a clockwise direction and tighten securely.
7. **Connect Hot Wires:** Connect the black (hot) wires to the brass-colored terminal screws. Ensure the wire forms a full loop around the screw in a clockwise direction and tighten securely. If there are two hot wires, use both brass screws.
8. **Secure Receptacle:** Carefully fold the wires into the electrical box. Insert the new receptacle into the box and secure it with the provided mounting screws.
9. **Install Wallplate:** Attach the wallplate over the receptacle.
10. **Restore Power:** Turn the power back on at the circuit breaker or fuse box. Test the receptacle with a known working device.



Figure 2: Rear view of a commercial grade receptacle, illustrating terminal screw locations for wiring connections.

## 5. OPERATING INSTRUCTIONS

Once properly installed and power is restored, the Leviton BR20-I duplex receptacle functions as a standard electrical outlet. Simply insert the plug of your electrical device into either of the two receptacles. Ensure the plug is fully inserted for a secure connection.

## 6. MAINTENANCE

- Cleaning:** To clean the receptacle, ensure power is off at the circuit breaker. Wipe the surface with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Periodic Inspection:** Periodically check the receptacle for any signs of damage, such as cracks, discoloration, or loose connections. If any damage is observed, turn off power and replace the receptacle.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power at the receptacle.	Circuit breaker tripped or fuse blown. Loose wiring connection.	Check and reset the circuit breaker or replace the fuse. Turn off power and check wiring connections for tightness.
Plug feels loose in the receptacle.	Worn contacts or incorrect plug type.	Ensure the plug is a straight blade type. If contacts are worn, the receptacle may need replacement.
Receptacle is hot to the touch.	Overload or loose connection.	Immediately unplug devices. Turn off power and inspect wiring for loose connections. Reduce load on the circuit. If problem persists, consult a qualified electrician.

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

## 8. SPECIFICATIONS

- Model:** BR20-I
- Type:** Duplex Receptacle, Straight Blade
- Rating:** 20 Amp, 125 Volt
- Grade:** Commercial Grade
- Grounding:** Self-Grounding
- Color:** Ivory
- Material:** Thermoplastic body, Steel mounting strap, Brass contacts
- Dimensions:** Approximately 4 x 2 x 4 inches
- Wire Compatibility:** No. 10 Copper or Copper-Clad Wire
- Certifications:** UL Listed (Consult product packaging for specific listings)

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Leviton customer service or visit the official Leviton website. Keep your purchase receipt for warranty claims.

**Leviton Contact Information:**

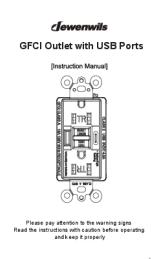
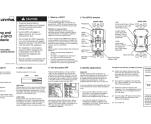
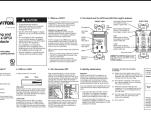
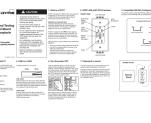
**Website:** [www.leviton.com](http://www.leviton.com)

**Customer Service:** Refer to the website for current contact numbers and support options.

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This manual is subject to change without notice.

## Related Documents - BR20-I

	<p><a href="#"><u>Leviton GFCI Outlet with USB Ports Installation and Operation Manual</u></a> Comprehensive guide for installing and operating Leviton GFCI Outlets with USB Ports, including wiring instructions, safety warnings, testing procedures, and warranty information.</p>
	<p><a href="#"><u>Installing and Testing Leviton Smart GFCI Outlet: A Comprehensive Guide</u></a> Step-by-step instructions for installing and testing Leviton Smart GFCI outlets (models D2GF1, D2GF2). Learn about GFCI functionality, wiring, troubleshooting, and safety precautions.</p>
	<p><a href="#"><u>Leviton SmartlockPro GFCI Receptacle Installation and Testing Guide</u></a> Comprehensive guide to installing and testing Leviton SmartlockPro Ground Fault Circuit Interrupter (GFCI) receptacles. Covers safety precautions, wiring, troubleshooting, and product features.</p>
	<p><a href="#"><u>Leviton GFCI Receptacle Installation and Testing Guide</u></a> A comprehensive guide on how to install and test a Leviton SmartLock Pro GFCI Receptacle, including wiring instructions, safety precautions, and troubleshooting tips.</p>
	<p><a href="#"><u>Leviton L-100 Catalog: Wiring Devices and Lighting Controls for Construction and Maintenance</u></a> Explore the comprehensive Leviton L-100 catalog, featuring a vast selection of high-quality wiring devices, lighting controls, and electrical solutions for industrial, commercial, and residential applications. Discover Leviton's century of innovation and commitment to quality.</p>
	<p><a href="#"><u>Leviton GFNT1-DIN/GFNT2-DIN DIN Rail Mount GFCI Receptacle Installation Guide</u></a> Comprehensive guide for installing and testing Leviton's GFNT1-DIN and GFNT2-DIN DIN Rail Mount GFCI Receptacles, including wiring instructions, safety precautions, and troubleshooting.</p>