

## Leviton CR20-W

# Leviton CR20-W 20-Amp, 125-Volt Commercial Grade Duplex Receptacle Instruction Manual

Model: CR20-W

## 1. PRODUCT OVERVIEW

The Leviton CR20-W is a 20-Amp, 125-Volt, narrow body duplex receptacle designed for commercial-grade applications. It features a straight blade configuration and is self-grounding, ensuring reliable performance and safety in demanding environments. This receptacle is suitable for use in various commercial settings, including hotels, schools, hospitals, and office buildings.



Image 1.1: Front view of the Leviton CR20-W 20-Amp, 125-Volt Commercial Grade Duplex Receptacle in White. This image displays the two standard NEMA 5-20R outlets, the mounting strap, and the terminal screws on the side.

### Key Features:

- **20-Amp, 125-Volt Rating:** Suitable for higher power applications.
- **Narrow Body Design:** Provides maximum wiring room within the electrical box.
- **Commercial Grade:** Built to withstand demanding environments and frequent use.
- **Self-Grounding:** Automatically establishes a ground connection when installed in a properly grounded metal 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:** Facilitates faster installation.

## 2. SAFETY INFORMATION

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**WARNING: To avoid fire, shock, or death, turn off power at the circuit breaker or fuse box and test that power is off before wiring. All wiring must be in accordance with national and local electrical codes.**

- Always disconnect power at the main service panel before installing or servicing any electrical device.
- Use only with copper or copper-clad wire. Do not use with aluminum wire unless specifically rated for it and appropriate connectors are used.
- Ensure all wire insulation is intact and no bare wires are exposed except at terminal connections.
- Do not exceed the specified electrical ratings (20 Amps, 125 Volts).
- If you are unsure about any part of these instructions, consult a qualified electrician.
- This device is intended for indoor use only.

## 3. INSTALLATION INSTRUCTIONS

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Follow these steps for proper installation of your Leviton CR20-W duplex receptacle.

1. **Turn Off Power:** Locate the circuit breaker or fuse that controls the outlet you are replacing or installing. Turn it OFF. Verify power is off using a voltage tester.
2. **Prepare Wires:**
  - Strip approximately 1/2 inch (12.7 mm) of insulation from the ends of the circuit wires.
  - For stranded wire, twist the strands tightly together.
3. **Identify Wires:**
  - **Hot/Live Wire:** Typically black or red. Connects to the brass-colored terminal screws.
  - **Neutral Wire:** Typically white. Connects to the silver-colored terminal screws.
  - **Ground Wire:** Typically bare copper or green. Connects to the green hexagonal ground screw.
4. **Connect Wires:**
  - Loosen the terminal screws on the side of the receptacle.
  - Hook each wire clockwise around its corresponding terminal screw, ensuring no bare wire extends beyond the screw head.
  - Tighten the screws firmly to secure the connections.
  - For the self-grounding feature, ensure the receptacle's mounting strap makes good contact with a properly grounded metal electrical box. If using a non-metallic box, connect the ground wire directly to the green ground screw on the receptacle.
5. **Mount Receptacle:** Carefully fold the wires into the electrical box, leaving enough room for the receptacle. Insert the receptacle into the box and secure it with the captive mounting screws.

provided.

- 6. **Install Wallplate:** Attach the decorative wallplate (not included) over the receptacle.
- 7. **Restore Power:** Turn the power back ON at the circuit breaker or fuse box.
- 8. **Test:** Test the receptacle with a known working device or an outlet tester.

## 4. OPERATING INSTRUCTIONS

The Leviton CR20-W duplex receptacle functions as a standard electrical outlet. To operate:

- 1. Ensure the receptacle is properly installed and power is supplied to the circuit.
- 2. Insert the plug of your electrical device into one of the two available outlets on the receptacle.
- 3. Ensure the plug is fully inserted and makes a secure connection.
- 4. Do not force plugs into the receptacle. If a plug does not fit, it may be incompatible or damaged.
- 5. Avoid overloading the receptacle by plugging in too many high-current devices, which can trip the circuit breaker.

## 5. MAINTENANCE

The Leviton CR20-W receptacle requires minimal maintenance to ensure continued safe and reliable operation.

- **Regular Inspection:** Periodically inspect the receptacle for any signs of damage, such as cracks, discoloration, or loose connections.
- **Cleaning:** To clean the receptacle, first turn off power at the circuit breaker. Use a soft, dry cloth to wipe the surface. Do not use abrasive cleaners or solvents.
- **Tightness of Connections:** If you suspect a loose connection, turn off power at the circuit breaker and carefully check the terminal screws for tightness.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power at receptacle	Circuit breaker tripped Loose wire connection Faulty receptacle	Check and reset the circuit breaker. Turn off power, inspect and tighten wire connections. If connections are secure and breaker is on, replace the receptacle.
Plug falls out easily	Worn receptacle contacts Damaged plug	Replace the receptacle. Inspect the plug on the device; replace if damaged.
Receptacle feels hot	Overload on circuit Loose wire connection Internal fault	Immediately unplug devices and reduce load. Turn off power, inspect and tighten wire connections. If problem persists, replace the receptacle and consult an electrician.




## 7. SPECIFICATIONS

Attribute	Value
Brand	Leviton
Model Number	CR20-W
Amperage	20 Amps
Voltage	125 Volts
Receptacle Type	Duplex, Straight Blade
Grade	Commercial Grade
Grounding Type	Self-Grounding
Color	White
Material	Nylon
Dimensions (L x W x H)	1.56 x 1.09 x 4.06 inches
Weight	2.08 ounces

## 8. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official documentation provided with your product or visit the [Leviton official website](#) or contact their customer service directly. Warranty terms may vary based on region and purchase date.

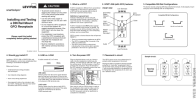
### Related Documents - CR20-W

 <p>Leviton GFCI Outlet with USB Ports [Instruction Manual] Please pay attention to the warning signs. Read the instructions with caution before operating and use it properly.</p>	<p><a href="#">Leviton GFCI Outlet with USB Ports Installation and Operation Manual</a></p> <p>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="#">Leviton SmartlockPro GFCI Receptacle Installation and Testing Guide</a></p> <p>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="#">Leviton GFCI Receptacle Installation and Testing Guide</a></p> <p>A comprehensive guide on how to install and test a Leviton SmartLock Pro GFCI Receptacle, including wiring instructions, safety precautions, and troubleshooting tips.</p>



[Leviton L-100 Catalog: Wiring Devices and Lighting Controls for Construction and Maintenance](#)

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.



[Leviton GFNT1-DIN/GFNT2-DIN DIN Rail Mount GFCI Receptacle Installation Guide](#)

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.



[Leviton Commercial & Industrial Grade Switches Selection Guide](#)

A comprehensive selection guide from Leviton detailing commercial and industrial grade switches, including toggle, Decora Plus, Lev-lok, antimicrobial, and specialty switch types with application details and wiring diagrams.