Leviton 8450

Leviton 8450 50 Amp Flush Mounting Receptacle

Industrial Grade, Grounding, Straight Blade

Introduction

Thank you for choosing the Leviton 8450 50 Amp, 250 Volt, Flush Mounting Receptacle. This industrial-grade device is engineered for durability and reliable performance in demanding environments such as factories, schools, hospitals, and commercial office buildings. This manual provides essential information for the safe and proper installation, operation, and maintenance of your new receptacle.

The Leviton 8450 features heavy-gauge, double-wipe copper alloy contacts and easy-to-wire terminals that accept conductors up to No. 4 AWG, with clearly marked terminals for fast wiring. All necessary mounting hardware is included for a straightforward installation into single or two-gang outlet boxes.

Safety Information

WARNING: To avoid fire, shock, or death; turn off power at circuit breaker or fuse box and test that power is off before wiring! This device must be installed in accordance with all national and local electrical codes.

- Always disconnect power before installing or servicing the receptacle.
- Ensure all wiring connections are secure and properly insulated.
- Use only approved electrical boxes and cover plates.
- If you are unsure about any part of these instructions, consult a qualified electrician.

Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Product Overview

The Leviton 8450 is a 50 Amp, 250 Volt, straight blade, grounding receptacle designed for flush mounting. It is constructed from durable Nylon for the body and face, ensuring longevity in industrial settings.



Image: The Leviton 8450 50 Amp, 250 Volt, Flush Mounting Receptacle, showing its NEMA 15-50 configuration, grounding terminal, and mounting plate with wire size and torque specifications.

Key Features:

- Heavy-Gauge, Double-Wipe Copper Alloy Contacts for superior conductivity and durability.
- Easy-to-Wire Terminals that accept up to No. 4 AWG conductors.
- Terminals Marked for Easy Identification and Fast Wiring, simplifying installation.
- All Mounting Hardware Included for convenient setup.
- Flush-Mount Design fits standard single or two-gang outlet boxes.

Installation/Setup

1. **Turn Off Power:** Locate the circuit breaker or fuse for the circuit you will be working on and turn it off. Verify that the power is off using a voltage tester.
2. **Prepare Wires:** Strip approximately 3/4 inch of insulation from the ends of the circuit wires. The terminals are designed to accept conductors up to No. 4 AWG.
3. **Connect Wires:** Connect the circuit wires to the clearly marked terminals on the receptacle. Ensure proper polarity (line, neutral, ground) as per local electrical codes. Tighten terminal screws to the specified torque (typically 10-20 in-lb, as indicated on the device).
4. **Mount Receptacle:** Secure the receptacle into a single or two-gang outlet box using the included mounting hardware. Ensure the device is flush with the wall surface.
5. **Install Wallplate:** Attach a compatible wallplate. *Note:* For this specific receptacle, a wallplate with a**2.465-inch hole diameter** is required. Standard 2.125-inch wallplates will not fit properly.
6. **Restore Power:** Once installation is complete and all connections are secure, turn the power back on at the circuit breaker or fuse box.

Operating Instructions

The Leviton 8450 receptacle is designed for straightforward operation. Once properly installed and powered, it provides a reliable connection point for compatible 50 Amp, 250 Volt devices, such as ovens or other industrial equipment.

- Ensure the plug of your appliance matches the NEMA 15-50 configuration of the receptacle.
- Insert the appliance plug firmly into the receptacle.
- To disconnect, pull the plug straight out from the receptacle. Avoid pulling by the cord.

Maintenance

The Leviton 8450 receptacle is designed for long-term, maintenance-free operation under normal conditions. However, periodic inspection is recommended to ensure continued safety and performance.

- **Visual Inspection:** Periodically check the receptacle for any signs of physical damage, such as cracks, discoloration, or loose connections.

- **Cleaning:** If necessary, gently wipe the surface of the receptacle with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure power is off before cleaning.
- **Connection Check:** If the receptacle is subject to heavy vibration or frequent use, it is advisable to periodically check the terminal screw tightness with the power off.

Troubleshooting

Problem	Possible Cause	Solution
No power from receptacle	Circuit breaker tripped or fuse blown	Check and reset circuit breaker or replace fuse.
No power from receptacle	Loose wiring connection	Turn off power, inspect and tighten all terminal connections.
Plug does not fit or is loose	Incorrect plug type or damaged receptacle	Ensure plug is NEMA 15-50. If receptacle is damaged, replace it.
Wallplate does not fit flush	Incorrect wallplate hole diameter	Obtain a wallplate with a 2.465-inch hole diameter.

Specifications

Attribute	Value
Model Number	8450
Brand	Leviton
Amperage	50 Amp
Voltage	250 Volts
Wattage	40 watts (Max. connected load)
Material	Nylon (Body and Face)
Color	Black
Mounting Type	Flush Mount
Item Weight	6.2 ounces
Total Power Outlets	1
Compatible Devices	Oven, other 50A/250V appliances

Warranty and Support

Warranty Information:

The Leviton 8450 50 Amp Flush Mounting Receptacle comes with a**10-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Leviton customer support. Visit the official Leviton website for the most current contact information, FAQs, and additional product resources.

You can find more information and support at theLeviton Store on Amazon or the official Leviton website.

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.

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

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