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Eaton BR15W-SP-L

Eaton BR15W-SP-L 15-Amp, 125-Volt Commercial Grade Duplex Receptacle

Instruction Manual

1. Important Safety Information

WARNING: Risk of electric shock or fire. Improper installation can result in serious injury or death. 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 in accordance with all national and local electrical codes.

- Always disconnect power before working on electrical circuits.
- Use appropriate personal protective equipment (PPE).
- Ensure all wiring connections are secure and properly insulated.
- Do not exceed the specified electrical ratings of the device.
- Consult local electrical codes for specific requirements.

2. Product Overview

The Eaton BR15W-SP-L is a 15-Amp, 125-Volt commercial specification grade straight duplex receptacle designed for reliable performance in various applications. This device supports both back and side wire connections, offering installation flexibility. It features a heavy-duty construction for durability and a screw catch feature to facilitate wallplate mounting.

Key Features:

- Commercial specification grade for enhanced durability.
- Back and side wire terminals for flexible installation.
- Heavy-duty construction.
- Screw catch feature for easier wallplate installation.
- 2-pole, 3-wire grounding configuration.
- 15-Amp, 125-Volt, NEMA 5-15 rating.



Figure 2.1: Front view of the Eaton BR15W-SP-L duplex receptacle, showing the two outlets and mounting straps.

3. Specifications

Specification	Detail
Model Number	BR15W-SP-L
Amperage	15 Amps
Voltage	125 Volts
NEMA Rating	5-15R
Wiring Type	Back and Side Wire
Configuration	2-Pole, 3-Wire Grounding
Material	Copper

Dimensions (approx.)	1.13 x 1.13 x 1.13 inches
Item Weight	2.89 ounces
Certification	NEMA, UL 498, Federal Specification WC-596

4. Installation

Follow these steps carefully to install the Eaton BR15W-SP-L duplex receptacle. Ensure power is OFF before beginning.

4.1 Pre-Installation

1. **Turn Off Power:** Locate the circuit breaker or fuse controlling the outlet you are replacing or installing. Switch it to the OFF position. 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. Ensure the wire ends are clean and straight.

4.2 Wiring Connections

The BR15W-SP-L supports both back-wire and side-wire connections.



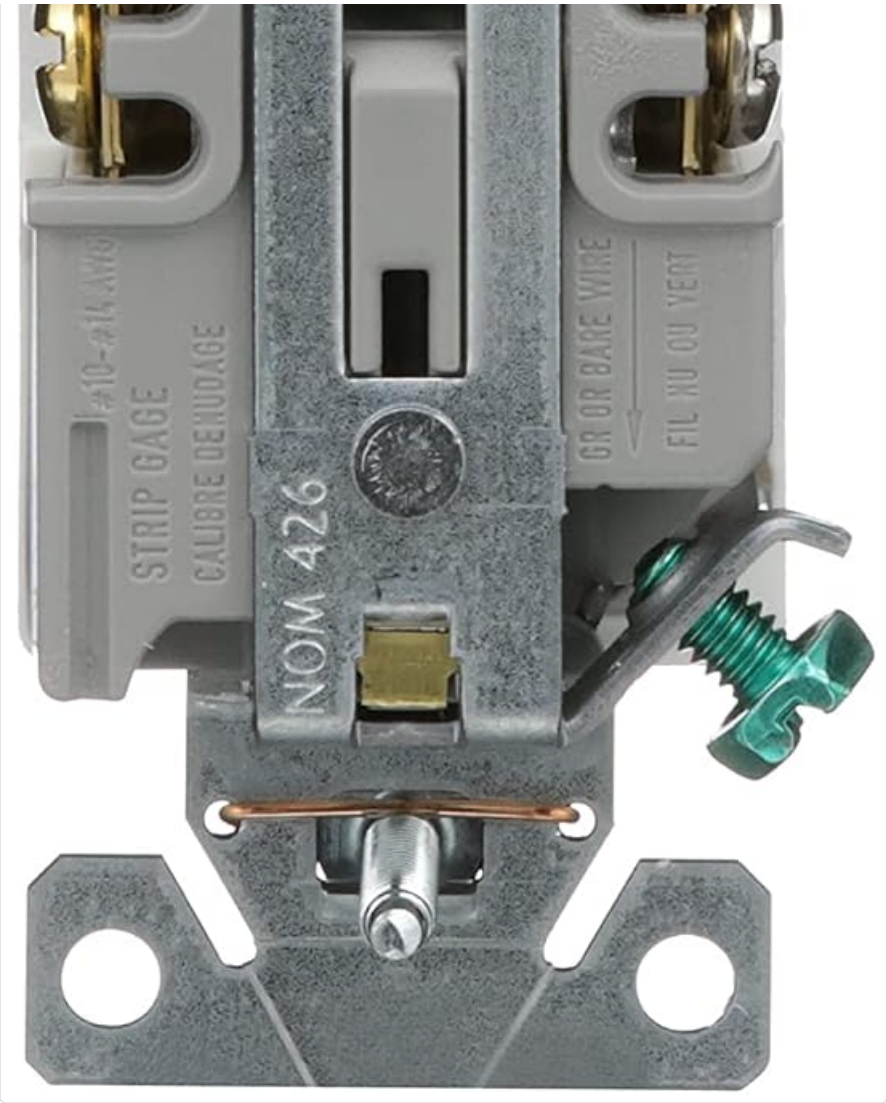


Figure 4.1: Back view of the receptacle, illustrating the screw terminals for wiring connections.

Side-Wire Connection:

- Loosen the terminal screws on the side of the receptacle.
- Form a hook at the end of each wire.
- Connect the **hot (black) wire** to the brass-colored screw terminal.
- Connect the **neutral (white) wire** to the silver-colored screw terminal.
- Connect the **ground (bare copper or green) wire** to the green screw terminal.
- Tighten all screws firmly to ensure secure connections.

Back-Wire Connection:

- Insert the stripped end of the **hot (black) wire** into the hole adjacent to the brass-colored screw terminal.
- Insert the stripped end of the **neutral (white) wire** into the hole adjacent to the silver-colored screw terminal.
- Insert the stripped end of the **ground (bare copper or green) wire** into the hole adjacent to the green screw terminal.
- Tighten the corresponding screw terminals firmly. The internal clamp will secure the wire.

4.3 Mounting

1. Carefully fold the wires into the electrical box.
2. Align the receptacle with the mounting holes in the electrical box.
3. Secure the receptacle to the box using the provided mounting screws.
4. Install the wallplate over the receptacle, utilizing the screw catch feature for easier alignment.

4.4 Final Steps

1. Restore power at the circuit breaker or fuse box.
2. Test the receptacle with a known working appliance or a receptacle tester to ensure proper function.

5. Operation

The Eaton BR15W-SP-L duplex receptacle functions as a standard electrical outlet. To operate, simply insert the plug of an electrical appliance or device into one of the two available receptacles. Ensure the plug is fully inserted for a secure connection.





Figure 5.1: Side view of the receptacle, showing its profile and terminal screws.

6. Maintenance

The Eaton BR15W-SP-L receptacle requires minimal maintenance. Regular inspection and cleaning are recommended to ensure continued safe and reliable operation.

- **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 device.
- **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, as these can damage the finish or internal components.
- **Tightness of Connections:** If you suspect a loose connection, turn off power and carefully re-tighten the terminal screws.

7. Troubleshooting

If the receptacle is not functioning correctly, consider the following troubleshooting steps:

- **No Power:**
  - Check the circuit breaker or fuse for the circuit. Reset the breaker if it has tripped or replace the fuse if blown.
  - Ensure all wiring connections to the receptacle are secure. Turn off power before checking connections.
- **Loose Plug:** If plugs feel loose in the receptacle, the internal contacts may be worn. The receptacle should be replaced by a qualified electrician.
- **Overheating:** If the receptacle feels warm to the touch, immediately disconnect any devices and turn off power. This could indicate an overload or a faulty connection. Consult a qualified electrician.

If issues persist after troubleshooting, contact a qualified electrician for assistance.

8. Warranty Information

Eaton provides a standard warranty for its electrical products, covering defects in materials and workmanship under normal use. For specific warranty terms, conditions, and duration applicable to the BR15W-SP-L duplex receptacle, please refer to the official Eaton website or contact Eaton customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.

9. Support Information

For technical assistance, product inquiries, or to locate authorized service centers, please visit the official Eaton website:

www.eaton.com

You may also contact Eaton customer support through the contact information provided on their website.

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