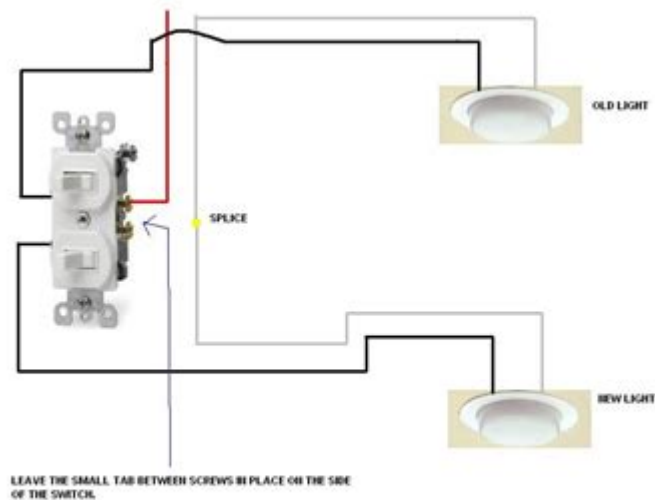


# Leviton Double Pole Switch Wiring Diagram



**Leviton double pole switch wiring diagram** is an essential topic for homeowners and electricians alike, as it provides the necessary guidance to safely and effectively wire a double pole switch. This type of switch is typically used to control 240-volt appliances, such as water heaters, air conditioners, and large power tools. Understanding how to properly wire a double pole switch not only ensures the functionality of the devices it controls but also enhances safety by preventing electrical issues. In this article, we will explore the components, wiring diagrams, and detailed instructions for wiring a Leviton double pole switch.

## Understanding the Double Pole Switch

A double pole switch is designed to control two circuits simultaneously. It consists of two separate switches that operate together, allowing the user to turn something on or off while isolating it from the power source. The primary features of a double pole switch include:

- **Two Poles:** Each pole controls one circuit. This is essential for 240-volt applications where two hot wires are needed.
- **Two Positions:** The switch can be either in an 'on' or 'off' position, controlling the flow of electricity.
- **Durability:** Leviton switches are known for their robustness, making them suitable for heavy-duty applications.

## Common Applications

Double pole switches are typically used in various applications, including:

- Electric water heaters
- Electric ranges and ovens
- Central heating systems
- Large power tools
- Industrial equipment

## Components Required for Wiring a Leviton Double Pole Switch

Before diving into the wiring diagram, it's important to gather all necessary components to ensure a smooth installation process:

1. **Leviton Double Pole Switch:** Ensure you have a switch rated for the current and voltage of your application.
2. **Electrical Wire:** Use 12 or 10-gauge wire, depending on the amperage of your circuit.
3. **Wire Connectors:** These are needed to connect the wires securely.
4. **Electrical Tape:** For securing connections and for safety.
5. **Screwdriver:** To attach wires and secure the switch in place.
6. **Wire Strippers:** For stripping the insulation off the wires.
7. **Voltage Tester:** To ensure the circuit is de-energized before starting work.

## Wiring Diagram Overview

To wire a Leviton double pole switch correctly, it's crucial to follow the wiring diagram closely. Below is a simplified representation of how to connect the switch:

1. **Power Source:** Typically, there will be two hot wires (usually black and red) coming from the power source.
2. **Appliance Connection:** The device you are controlling will have two terminals for connection, which will also be connected to the switch.
3. **Ground Wire:** A bare or green wire is used for grounding, which is essential for safety.

## Wiring Steps

Follow these steps to wire your Leviton double pole switch:

1. **Turn Off Power:** Before starting, ensure the circuit breaker is turned off to eliminate any risk of electric shock.
2. **Prepare the Wires:** Use wire strippers to remove about 3/4 inch of insulation from the ends of the black, red, and ground wires.
3. **Connecting Hot Wires:**
  - Connect the black wire from the power source to one of the top terminals on the double pole switch.
  - Connect the red wire from the power source to the other top terminal on the switch.
4. **Connecting to the Load:**
  - Attach a black wire from one of the bottom terminals of the switch to one terminal of the appliance.
  - Connect a red wire from the other bottom terminal of the switch to the other terminal of the appliance.
5. **Ground Connection:**
  - Connect the ground wire from the power source to the green ground screw on the switch.
  - Additionally, connect the ground wire from the appliance to the same ground connection.
6. **Secure the Switch:** Carefully tuck the wires back into the electrical box and secure the switch in place with screws.
7. **Restore Power:** After ensuring all connections are secure, turn the circuit breaker back on. Use a voltage tester to confirm the switch is functioning correctly.

## Safety Precautions

When working with electricity, safety should always be your top priority. Here are some essential safety tips to keep in mind:

- Always turn off the power at the circuit breaker before starting any electrical work.
- Use insulated tools to reduce the risk of shock.
- Double-check your connections to avoid short circuits.

- Ensure that the switch is rated for the voltage and amperage of your application.
- If unsure, consult a licensed electrician for assistance.

## Troubleshooting Common Issues

Even with careful installation, issues may arise. Here are some common problems and their solutions:

1. Switch Not Functioning:

- Ensure the circuit breaker is on.
- Check that all connections are secure and tight.

2. Device Not Turning On:

- Verify that the appliance is working correctly.
- Check for loose wires or faulty connections.

3. Flickering Lights:

- This may indicate a poor connection. Tighten all wire connections.

## Conclusion

Wiring a Leviton double pole switch can seem daunting, but with the right knowledge and tools, it can be accomplished safely and efficiently. Whether you are replacing an existing switch or installing a new one for a 240-volt appliance, following the wiring diagram and instructions carefully will help ensure a successful installation. Always prioritize safety and do not hesitate to consult with a professional electrician if you encounter challenges. By mastering the wiring of a double pole switch, you can enhance the functionality of your electrical systems and appliances, providing convenience and efficiency in your home or workspace.

## Frequently Asked Questions

### What is a Leviton double pole switch used for?

A Leviton double pole switch is used to control two circuits from a single switch, typically for appliances requiring 240 volts.

### How do you wire a Leviton double pole switch?

To wire a Leviton double pole switch, connect the two hot wires to the two brass terminals, and connect the ground wire to the green grounding screw.

## **What are the common applications for a double pole switch?**

Common applications include controlling electric water heaters, dryers, and other high-voltage appliances.

## **Does a double pole switch require a neutral wire?**

No, a double pole switch does not require a neutral wire; it only needs hot and ground connections.

## **What is the difference between a single pole and a double pole switch?**

A single pole switch controls one circuit, while a double pole switch controls two circuits, allowing for higher voltage applications.

## **Can a Leviton double pole switch be used for 120V circuits?**

Yes, a Leviton double pole switch can be used for 120V circuits, but it is primarily designed for 240V applications.

## **What tools do you need to install a Leviton double pole switch?**

You'll need a screwdriver, wire stripper, voltage tester, and possibly pliers for installation.

## **What safety precautions should be taken when wiring a double pole switch?**

Always turn off the power at the circuit breaker, use a voltage tester to confirm the power is off, and follow local electrical codes.

## **Can you replace a single pole switch with a double pole switch?**

Yes, but only if the circuit requires it and if you have the appropriate wiring and load requirements for a double pole switch.

## **Where can I find a wiring diagram for a Leviton double pole switch?**

Wiring diagrams can usually be found in the product manual, on the Leviton website, or in electrical installation guides.

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#### *Locations - Leviton*

Leviton Lighting & Controls (Tualatin Office) 10385 SW Avery Street Tualatin, Oregon 97062 Phone: 800.736.6682 Fax: 503.404.5594

Discover how to wire a Leviton double pole switch with our detailed wiring diagram. Get step-by-step instructions and expert tips for safe installation.

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