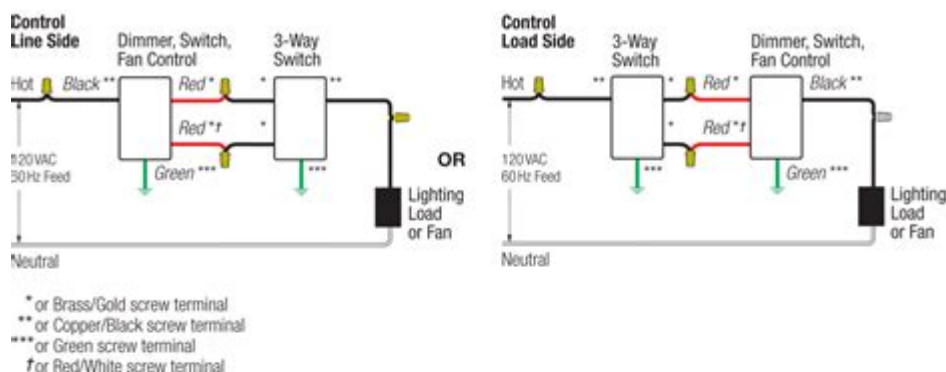


# Lutron Dv 603p Wiring Diagram

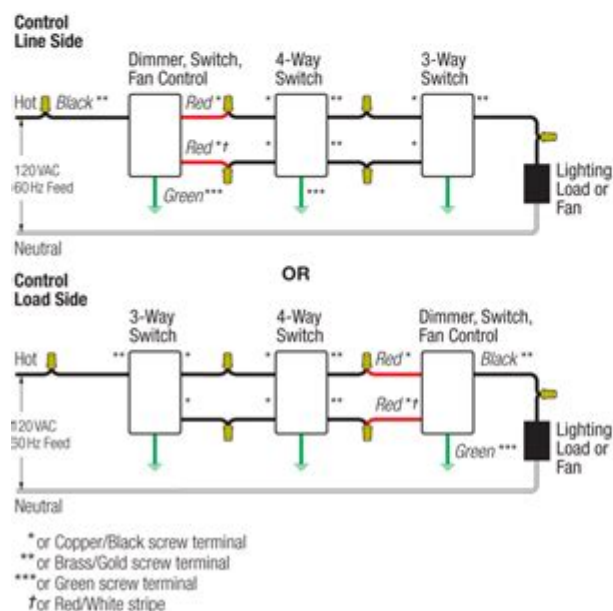
**Wiring diagram #6**

3-way wiring



**Wiring diagram #7**

4-way wiring



**Lutron DV 603P Wiring Diagram** is an essential guide for anyone looking to install or replace a Lutron dimmer switch, specifically the DV 603P model. Understanding the wiring diagram is crucial for ensuring a safe and effective installation process. The Lutron DV 603P is a popular choice among homeowners due to its versatile functionality and sleek design. This article will delve into the specifics of the wiring diagram, installation steps, and troubleshooting tips to ensure a seamless experience for users.

## Understanding the Lutron DV 603P Dimmer Switch

The Lutron DV 603P is a single-pole dimmer switch designed for use with incandescent and halogen bulbs. It provides users with the ability to adjust lighting levels, enhancing the ambiance of a room while saving energy. Key features of the Lutron DV 603P include:

- Voltage Rating: 120V AC
- Wattage Capacity: Supports loads up to 600 watts
- Compatibility: Works with a variety of light bulbs, including incandescent and halogen
- Style: Available in various colors to match your decor
- Easy installation: Designed for simple installation in standard electrical boxes

Before diving into the wiring diagram, it's essential to gather all necessary tools and materials to ensure a successful installation.

## Tools and Materials Needed

For installing the Lutron DV 603P dimmer switch, you will need the following tools and materials:

### 1. Tools:

- Screwdriver (flathead and Phillips)
- Wire stripper
- Voltage tester
- Drill (if needed for new installations)
- Electrical tape

### 2. Materials:

- Lutron DV 603P dimmer switch
- Wire nuts (if not included with the dimmer)
- Electrical box (if replacing an existing switch)
- Appropriate gauge electrical wire (typically 14/2 or 12/2)

## Safety Precautions

Before starting the installation process, it's critical to follow safety precautions:

- Turn off the power: Always switch off the circuit breaker that powers the existing switch to prevent electrical shock.
- Use a voltage tester: Double-check that the power is off by testing the wires with a voltage tester.
- Follow local codes: Ensure compliance with local electrical codes and regulations.

## Wiring Diagram Overview

The wiring diagram for the Lutron DV 603P dimmer switch consists of several key components and connections. Understanding these will help simplify the installation process.

# Components of the Wiring Diagram

1. Power Source: The line voltage from the electrical panel.
2. Dimmer Switch: The Lutron DV 603P itself.
3. Load: The light fixture that the dimmer will control.
4. Ground Wire: Typically a bare copper wire for grounding.

## Typical Wiring Configuration

The following is a basic wiring configuration for a single-pole installation of the Lutron DV 603P:

- Line (Power Source): Connect the black wire from the power source to the black wire on the dimmer switch.
- Load (Light Fixture): Connect the black wire from the dimmer switch to the black wire leading to the light fixture.
- Neutral (White Wire): Connect the white wire from the power source directly to the white wire on the light fixture. The dimmer switch does not connect to the neutral wire.
- Ground (Green or Bare Wire): Connect the ground wire to the green screw on the dimmer switch and to the ground wires in the electrical box.

## Step-by-Step Installation Process

Follow these steps to install the Lutron DV 603P dimmer switch:

### Step 1: Remove the Existing Switch

- Turn off the power at the circuit breaker.
- Remove the faceplate of the existing switch with a screwdriver.
- Unscrew the switch from the electrical box and gently pull it out, exposing the wiring.
- Take note of how the existing switch is wired (you can take a photo for reference).

### Step 2: Prepare the Wires

- Use the wire stripper to remove about 3/4 inch of insulation from the ends of the wires.
- Make sure the wires are clean and free of any damage.

### Step 3: Connect the Wires to the Dimmer Switch

- Connect the black wire from the power source to the black wire on the Lutron DV 603P.

- Connect the black wire from the light fixture to the black wire on the Lutron dimmer.
- Connect the neutral wires (white) directly together (power source and load).
- Connect the ground wire to the green screw on the dimmer switch.

## **Step 4: Secure the Dimmer Switch**

- Carefully tuck the wires back into the electrical box.
- Secure the dimmer switch to the box using screws.
- Attach the faceplate to the dimmer switch.

## **Step 5: Restore Power and Test the Switch**

- Turn the circuit breaker back on.
- Test the dimmer switch to ensure it is functioning correctly.
- Adjust the dimming level to verify it works as intended.

## **Troubleshooting Common Issues**

If you encounter any issues during or after installation, consider the following troubleshooting tips:

### **1. Dimmer Does Not Work:**

- Ensure that the power is turned on at the circuit breaker.
- Double-check that all connections are secure and correctly wired.
- Verify that the dimmer is compatible with the type of bulbs being used.

### **2. Flickering Lights:**

- Ensure that the bulbs used are compatible with the dimmer.
- Check for loose connections or damaged wiring.

### **3. Dimmer Overheating:**

- Confirm that the wattage of the connected load does not exceed the 600-watt limit of the dimmer.
- Ensure adequate ventilation around the dimmer switch.

## **Conclusion**

Understanding the Lutron DV 603P Wiring Diagram is crucial for anyone looking to enhance their home's lighting system. By following the outlined steps and precautions, you can safely and effectively install this versatile dimmer switch. With its ability to control lighting levels, the Lutron DV 603P can significantly improve the ambiance of any room while providing energy savings. Remember to troubleshoot any issues that arise during installation and enjoy the enhanced functionality that this dimmer switch offers. Always

consult a licensed electrician if you are uncertain about any aspect of the installation process.

## **Frequently Asked Questions**

### **What is the Lutron DV 603P used for?**

The Lutron DV 603P is a dimmer switch designed for controlling the brightness of compatible lighting fixtures, typically in residential settings.

### **How do you wire the Lutron DV 603P dimmer switch?**

To wire the Lutron DV 603P, connect the line wire to the black input terminal, the load wire to the red output terminal, and the ground wire to the green terminal.

### **What are the color codes for wiring the DV 603P?**

Typically, black is the line (hot) wire, red is the load wire, white is neutral, and green is ground. Always verify with local codes.

### **Can the Lutron DV 603P be used with LED lights?**

Yes, the Lutron DV 603P is compatible with most dimmable LED lights, but always check the manufacturer's specifications for compatibility.

### **What is the maximum wattage for the Lutron DV 603P?**

The Lutron DV 603P can handle up to 600 watts for incandescent and halogen bulbs, and up to 300 watts for dimmable LED and CFL bulbs.

### **Do you need a neutral wire for the Lutron DV 603P?**

Yes, the Lutron DV 603P requires a neutral wire for installation to function properly with modern lighting systems.

### **What should you do if the dimmer switch is flickering?**

If the Lutron DV 603P flickers, check the compatibility of the bulbs, ensure tight connections, or replace the bulbs with compatible ones.

### **How can you troubleshoot issues with the Lutron DV 603P?**

To troubleshoot, check the wiring connections, ensure the load is within specifications, and verify that the bulbs are compatible with the dimmer.

### **Is the Lutron DV 603P suitable for 3-way applications?**

Yes, the Lutron DV 603P can be used in 3-way applications, but you will need a compatible

3-way switch to use alongside it.

## Where can I find the wiring diagram for the Lutron DV 603P?

The wiring diagram for the Lutron DV 603P can typically be found in the product manual or on the Lutron website under product support.

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