# cts push pull pot wiring

cts push pull pot wiring is a fundamental topic for guitar enthusiasts and technicians aiming to expand their instrument's tonal possibilities. This wiring method involves using a CTS potentiometer equipped with a push-pull switch, allowing players to toggle between different wiring configurations without additional external switches. Understanding the wiring process can dramatically enhance the versatility of electric guitars, especially in models where coil splitting, phase switching, or series/parallel options are desired. This article thoroughly explores the components involved, the wiring schemes, and step-by-step instructions to achieve reliable cts push pull pot wiring. Additionally, it covers troubleshooting tips and common use cases to ensure optimal performance. Whether upgrading an existing guitar or building one from scratch, mastering CTS push pull pot wiring is essential knowledge for modern guitar customization.

- Understanding CTS Push Pull Pots
- Components Required for CTS Push Pull Pot Wiring
- Step-by-Step Wiring Guide
- Common Wiring Configurations
- Troubleshooting and Tips

# **Understanding CTS Push Pull Pots**

The term CTS push pull pot wiring refers to the integration of a CTS brand potentiometer with a push-pull switch mechanism embedded within the potentiometer shaft. CTS, or Centralab CTS, is a respected manufacturer known for producing high-quality potentiometers widely used in electric guitars. The push-pull pot combines both volume or tone control and a mechanical switch that pulls the knob upward or pushes it downward, activating or deactivating specific wiring configurations.

This design allows guitarists to switch between different tonal options without adding extra switches to the guitar body, preserving aesthetic appeal and ergonomics. The push-pull mechanism is typically used for coil splitting humbuckers, series/parallel wiring, phase switching, or engaging additional electronics like boost circuits. Understanding the internal structure and pinout of a CTS push-pull pot is crucial for proper wiring.

#### **How CTS Push Pull Pots Work**

CTS push-pull pots operate by combining a potentiometer and a two-pole double-throw (DPDT) switch in a single unit. The pot controls resistance for volume or tone, while the switch changes the signal path when pulled or pushed. Internally, the switch has six terminals arranged in two groups of three, allowing for versatile wiring options.

When the pot knob is pushed down, the switch is in one position; when pulled up, it toggles to the

other. This action can reroute pickups, engage coil splits, or alter the tone circuit as designed by the wiring configuration.

# **Components Required for CTS Push Pull Pot Wiring**

Successful cts push pull pot wiring requires careful selection of components beyond just the potentiometer switch itself. Each element plays a vital role in achieving the desired functionality and maintaining signal integrity.

## **Essential Components**

- **CTS Push Pull Potentiometer:** Typically available in 250k or 500k ohm values, depending on the pickup type (single-coil or humbucker).
- **Pickups:** Single-coil or humbucker pickups that will interface with the pot.
- Capacitors: Tone capacitors (e.g., 0.022µF or 0.047µF) used in tone control circuits.
- **Shielded Wiring:** High-quality shielded wires to minimize noise and interference.
- **Soldering Equipment:** A soldering iron with appropriate tips, solder, and tools for secure connections.
- Multimeter: For verifying connections and continuity during and after installation.

#### **Additional Hardware**

In some cases, washers, nuts, and knobs compatible with the CTS pot may be necessary for physical installation. Proper grounding materials, such as copper foil or conductive paint, may also be used to shield the guitar cavity and reduce hum.

# **Step-by-Step Wiring Guide**

Wiring a CTS push pull pot requires precision and understanding of both the potentiometer and the switch terminals. The following guide outlines a general approach to wiring for coil splitting a humbucker pickup, one of the most common uses.

## **Preparation**

1. Identify all terminals on the CTS push pull pot. The pot will have three lugs for the potentiometer function and six switch terminals arranged in two rows of three.

- 2. Prepare the pickup wires, noting the manufacturer's color code for coil leads, ground, and hot output.
- 3. Ensure the guitar is unplugged and workspace is organized for soldering.

## **Wiring Procedure**

- 1. Solder the pickup's hot wire to the input lug of the potentiometer.
- 2. Connect the potentiometer's output lug to the output jack or the next component in the circuit.
- 3. Attach the ground wires to the pot casing to ensure proper grounding.
- 4. For coil splitting, identify the series link wires of the humbucker and solder them to the center terminals of the DPDT switch inside the pot.
- 5. Connect the outer switch terminals so that when the push-pull is engaged, the coil split wires are grounded or disconnected, allowing single-coil operation.
- 6. Double-check all solder joints for cold soldering and secure mechanical connections.
- 7. Test the wiring with a multimeter before finalizing the installation.

## **Final Assembly**

Once wiring is complete and tested, carefully fit the CTS push pull pot into the guitar's control cavity and secure it with the nut and washer. Attach the knob and ensure smooth mechanical operation of the push-pull switch.

# **Common Wiring Configurations**

The versatility of CTS push pull pot wiring extends beyond coil splitting. Different configurations can be employed to modify the guitar's sound and functionality.

## **Coil Splitting**

Coil splitting is the process of turning a humbucker pickup into a single-coil pickup by grounding one of the coils. The push-pull pot switch reroutes the wiring to achieve this, providing brighter, single-coil tones when engaged.

## Series/Parallel Switching

This configuration switches the humbucker wiring between series and parallel modes. Series wiring produces a thicker, higher output sound, while parallel wiring yields a clearer, lower output tone. The push-pull pot switch toggles between these two wiring states.

## **Phase Switching**

Phase switching reverses the electrical phase of a pickup relative to another. This creates a distinctive, thinner tone often described as "out-of-phase." The push-pull pot switch can be wired to invert the signal of one pickup to achieve this effect.

#### **Additional Tone Modifications**

Some guitarists use CTS push pull pot wiring to engage additional capacitors or resistors in the tone circuit, adding unique tonal shaping options.

## **Troubleshooting and Tips**

Proper installation of cts push pull pot wiring demands attention to detail. Common issues often arise from incorrect wiring or poor solder joints.

#### **Common Issues**

- No Sound or Weak Output: Check all solder joints and ensure the hot and ground wires are properly connected.
- **Switch Not Engaging Correctly:** Verify the push-pull switch terminals and wiring scheme; ensure the switch is fully seated and mechanically functional.
- Excessive Noise or Hum: Inspect grounding paths and shielding; poor ground connections can cause unwanted noise.
- Partial Coil Split or Incorrect Tone: Double-check pickup wire colors and switch wiring against manufacturer diagrams.

## **Best Practices**

- Use high-quality CTS pots to ensure durability and reliable switch action.
- Label wires during disassembly to avoid confusion during rewiring.

- Employ heat shrink tubing to insulate exposed wires and prevent shorts.
- Test the circuit incrementally with a multimeter and amplifier before final assembly.

## **Frequently Asked Questions**

#### What is a CTS push pull pot used for in guitar wiring?

A CTS push pull pot is a potentiometer with a built-in switch that allows guitar players to change wiring configurations, such as coil splitting or series/parallel switching, without adding extra switches to the guitar.

## How do you wire a CTS push pull pot for coil splitting?

To wire a CTS push pull pot for coil splitting, connect the push pull switch terminals to the pickup's coil taps and ground. When the pot is pulled up, it grounds one coil of a humbucker, effectively splitting it into a single-coil sound.

# What are the common CTS push pull pot values for guitar wiring?

The most common CTS push pull pot values are 250k ohms, typically used for single-coil pickups, and 500k ohms, usually preferred for humbuckers to retain brightness.

# Can I use a CTS push pull pot to switch between series and parallel wiring?

Yes, a CTS push pull pot can be wired to switch between series and parallel wiring on humbucker pickups, allowing for different tonal options by changing the way the coils are connected.

## Are CTS push pull pots compatible with all electric guitars?

CTS push pull pots are generally compatible with most electric guitars that use standard potentiometers, but you should check the pot size and shaft type to ensure proper fit and function.

## What tools do I need to wire a CTS push pull pot?

To wire a CTS push pull pot, you'll need a soldering iron, solder, wire cutters/strippers, a multimeter for testing connections, and possibly a wiring diagram specific to your desired configuration.

# How do I troubleshoot a CTS push pull pot that isn't switching correctly?

If a CTS push pull pot isn't switching correctly, check for cold solder joints, ensure all wires are

connected to the correct terminals, verify the switch operation mechanically, and use a multimeter to test continuity during switching.

#### **Additional Resources**

#### 1. Mastering CTS Push Pull Pot Wiring: A Comprehensive Guide

This book offers an in-depth exploration of CTS push pull potentiometer wiring techniques, perfect for guitar enthusiasts and electronics hobbyists. It covers the fundamentals of potentiometer functions, wiring diagrams, and practical applications. Readers will learn how to modify their instruments for versatile tone control with step-by-step instructions and clear illustrations.

#### 2. The Electric Guitar Wiring Handbook

A detailed manual focused on the wiring of electric guitars, including sections devoted to CTS push pull pots. The book explains the electrical principles behind push pull switches and potentiometers, providing wiring schematics for various configurations. Ideal for DIY guitar builders looking to enhance their knowledge and skills.

#### 3. Guitar Electronics: CTS Potentiometers and Wiring Explained

This book dives into the specifics of CTS components, explaining their design and role in guitar electronics. It includes practical wiring techniques for push pull pots that allow users to switch pickups and tone circuits. The author also discusses troubleshooting common issues and optimizing signal flow for better sound quality.

#### 4. Push Pull Pot Wiring Simplified for Guitar Modders

Designed for beginners, this guide breaks down the complex wiring of CTS push pull pots into easy-to-understand steps. It features color-coded diagrams and tips for soldering and installation. The book also covers popular wiring mods that can expand your guitar's tonal possibilities without expensive upgrades.

#### 5. Advanced Guitar Modifications: CTS Push Pull Potentials

Targeting experienced guitar technicians, this book explores advanced wiring schemes using CTS push pull pots. It explains how to combine different pickup configurations and tone controls to achieve unique sounds. Comprehensive schematics and component recommendations make it a valuable resource for professional setups.

#### 6. The Art of Guitar Wiring: CTS Push Pull Pot Edition

This book blends technical instruction with creative insights into guitar wiring, focusing on CTS push pull pots. Readers learn how to customize their instruments by experimenting with various wiring patterns and switch functions. It also includes historical context about CTS potentiometers and their role in electric guitar evolution.

#### 7. DIY Guitar Electronics: CTS Push Pull Pot Wiring Projects

A project-based book offering a variety of wiring modifications using CTS push pull pots. Each project comes with detailed instructions, parts lists, and troubleshooting advice. Perfect for hobbyists who enjoy hands-on learning and want to personalize their instrument's electronics.

#### 8. CTS Potentiometers and Guitar Wiring Techniques

This reference book provides a thorough overview of CTS potentiometers within the broader context of guitar wiring. It covers technical specifications, wiring methods for push pull configurations, and integration with other guitar components. The book is suitable for both beginners and seasoned

electricians.

9. Electric Guitar Wiring: CTS Push Pull Pot Essentials

Focusing exclusively on CTS push pull potentiometers, this book teaches essential wiring techniques to enhance guitar functionality. It explains how to use push pull pots to switch pickups, coils, and tone circuits effectively. The clear diagrams and practical tips make it an indispensable guide for guitar modders and technicians.

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