# ignition wiring harley dual fire coil wiring diagram

ignition wiring harley dual fire coil wiring diagram is an essential topic for motorcycle enthusiasts and mechanics aiming to optimize ignition performance on Harley-Davidson motorcycles. This article provides an in-depth guide on understanding and implementing the ignition wiring for Harley dual fire coil systems, complete with a detailed wiring diagram explanation. Dual fire coil setups are popular for enhancing ignition reliability and efficiency, especially in performance or custom Harley builds. Proper wiring ensures the coils receive correct voltage and timing signals, contributing to smoother engine operation and improved spark delivery. This comprehensive guide covers the basics of ignition coil function, detailed wiring methods, troubleshooting tips, and safety considerations. Readers will gain valuable insight into effectively wiring dual fire coils on Harley motorcycles, improving both maintenance and upgrade projects.

- Understanding Harley Dual Fire Coil Systems
- Components of Ignition Wiring for Dual Fire Coils
- Step-by-Step Dual Fire Coil Wiring Diagram Explanation
- Troubleshooting Common Wiring Issues
- Safety Tips and Best Practices

## **Understanding Harley Dual Fire Coil Systems**

The dual fire coil system in Harley-Davidson motorcycles is designed to improve spark efficiency by firing two spark plugs simultaneously from a single ignition pulse. This contrasts with single fire ignition

systems, which fire each spark plug individually in sequence. The dual fire setup helps achieve stronger ignition spark and better fuel combustion, leading to improved engine performance and smoother operation.

Harley dual fire coil wiring involves connecting two ignition coils that work together to send high voltage to the spark plugs. This configuration is particularly common in aftermarket upgrades and performance tuning. Understanding the basics of how these coils operate electrically and mechanically is crucial for proper installation and maintenance.

#### How Dual Fire Ignition Works

In a dual fire ignition system, one coil fires two spark plugs simultaneously, usually on both cylinders of a V-twin engine. This method uses a single ignition pulse to energize both spark plugs, simplifying the ignition process while ensuring consistent spark strength.

Dual fire coils are often preferred for their simplicity and reliability in certain Harley models. The wiring diagram for this setup highlights the importance of correct connections to the ignition switch, battery, and spark plugs for optimal operation.

## Advantages of Dual Fire Coil Systems

- · Improved ignition spark strength and reliability
- Simplified wiring harness compared to individual coil setups
- Cost-effective upgrade for performance improvements
- Reduced electrical complexity and maintenance
- Enhanced throttle response and combustion efficiency

## Components of Ignition Wiring for Dual Fire Coils

The ignition wiring setup for a Harley dual fire coil system consists of several critical components that must be correctly connected to ensure proper function. Each component plays a specific role in the ignition circuit, from power delivery to spark generation.

## **Main Components Overview**

Key elements involved in the ignition wiring include:

- Ignition Coil(s): The heart of the ignition system, responsible for transforming low voltage from the battery into high voltage for spark plugs.
- Ignition Switch: Controls power supply to the ignition coils and other electrical components.
- Spark Plugs: Components where the ignition spark occurs to ignite the air-fuel mixture in the engine cylinders.
- Battery: Provides the necessary electrical power to the ignition system.
- Kill Switch: Allows the rider to quickly cut power to the ignition coils in emergencies.
- Wiring Harness: The network of wires connecting all components, including connectors and terminals.

## Wiring Color Codes and Functions

Harley-Davidson wiring typically follows a standardized color code system to simplify identification and troubleshooting. Common wire colors used in dual fire coil wiring include:

- Black: Ground connections
- Red: Switched ignition power
- Green: Ignition coil positive feed
- Yellow: Signal wires from ignition control module
- White: Spark plug coil wire leads

Correct interpretation of these colors is crucial for wiring or diagnosing the ignition system effectively.

# Step-by-Step Dual Fire Coil Wiring Diagram Explanation

Understanding the wiring diagram for Harley dual fire coil systems is fundamental for proper installation and troubleshooting. Below is a detailed explanation of the wiring steps involved in setting up a dual fire coil ignition system.

#### **Step 1: Power Supply Connection**

Begin by connecting the ignition coils' positive terminals to the ignition switch output. This connection ensures the coils receive power only when the ignition is turned on. Use a fused power line from the battery to the ignition switch to protect the circuit from electrical faults.

## Step 2: Coil Grounding

Each ignition coil must have a solid ground connection, typically to the motorcycle's chassis or a dedicated grounding point. Proper grounding prevents electrical noise and ensures consistent coil operation.

## Step 3: Signal Wire Connection

The ignition control module or electronic ignition system sends timing signals to the coil's negative terminal. In a dual fire setup, the control module triggers both coils simultaneously by sending identical signal pulses.

#### Step 4: Spark Plug Wire Attachment

Attach the high-tension spark plug wires to the coil's output terminals. In the dual fire coil configuration, each coil will connect to two spark plugs, firing them simultaneously. Ensure spark plug wires are well-insulated and routed away from heat sources.

#### Step 5: Kill Switch Integration

Incorporate the kill switch into the ignition power line. This switch interrupts power to the coils when activated, allowing the rider to quickly shut off the engine if necessary.

## **Summary of Wiring Connections**

- 1. Battery positive Fuse Ignition switch Coil positive terminals
- 2. Coil negative terminals I Ignition control module signal output

3. Coil ground terminals \( \frac{1}{2} \) Motorcycle chassis ground
4. Coil output terminals  Spark plugs (two per coil)
5. Kill switch Interrupts ignition power line
Troubleshooting Common Wiring Issues
Proper ignition wiring is critical for motorcycle performance. Faulty wiring or incorrect connections in
the Harley dual fire coil system can lead to engine misfires, poor starts, or complete ignition failure.
The following troubleshooting tips help identify and resolve common wiring problems.
Identifying Wiring Faults
Common symptoms of wiring issues include:
Engine hesitation or misfires at low RPM
No spark or weak spark at spark plugs
no spain of front spain at spain plage
Intermittent engine stalling or failure to start
Blown fuses or melted wiring insulation

## **Diagnostic Procedures**

Effective troubleshooting involves systematic checks such as:

- · Using a multimeter to verify continuity and voltage levels in ignition wires
- Inspecting wiring harnesses for corrosion, wear, or damaged connectors
- Testing ignition coils for proper resistance and function
- Confirming correct polarity and secure connections at all terminals

## **Safety Tips and Best Practices**

Working with ignition wiring requires attention to safety to prevent injury or damage to the motorcycle's electrical system. Adhering to best practices ensures reliable operation and longevity of the dual fire coil setup.

#### **Essential Safety Measures**

- Always disconnect the battery before working on the ignition wiring
- · Use insulated tools to avoid accidental shorts or shocks
- Ensure all wiring connections are secure and insulated properly
- Use appropriate fuse ratings to protect wiring and components

- Avoid routing spark plug wires near moving parts or excessive heat
- · Double-check wiring diagrams before making connections

#### **Maintenance Recommendations**

Regular inspection of the ignition wiring and coils can prevent unexpected failures. Recommended maintenance includes checking for loose connections, corrosion, and wear on wires and terminals. Keeping the ignition system clean and dry also contributes to optimal performance and durability.

## Frequently Asked Questions

#### What is a dual fire coil in Harley ignition systems?

A dual fire coil in Harley ignition systems is a type of ignition coil that fires two spark plugs simultaneously, one for each cylinder in a two-cylinder engine, providing a simpler wiring setup and consistent spark delivery.

#### How do you wire a dual fire coil on a Harley Davidson motorcycle?

To wire a dual fire coil on a Harley, connect the positive terminal of the coil to the ignition power source and the negative terminal to the ignition control module or points. Then, connect the two spark plug wires from the coil's output to both cylinders, following the specific wiring diagram for your Harley model.

#### Can I use a dual fire coil with an aftermarket ignition on my Harley?

Yes, many aftermarket ignition systems support dual fire coils, but it is important to verify compatibility and follow the manufacturer's wiring instructions to ensure proper operation and avoid engine misfires.

#### Where can I find a reliable Harley dual fire coil wiring diagram?

Reliable wiring diagrams for Harley dual fire coils can be found in the official Harley Davidson service manuals, motorcycle repair guides, or reputable online forums and websites dedicated to Harley customization and maintenance.

#### What are common issues when wiring a dual fire coil on a Harley?

Common issues include incorrect polarity connections, improper grounding, loose connections, or using incompatible coils or ignition modules, which can lead to weak spark, engine misfires, or no spark at all.

#### Does a dual fire coil improve performance on a Harley?

A dual fire coil does not necessarily improve performance; it provides a simpler and more reliable ignition setup. Performance improvements depend more on the ignition timing, spark quality, and overall engine tuning.

# Is it necessary to modify the ignition wiring when upgrading to a dual fire coil on a Harley?

Yes, upgrading to a dual fire coil typically requires modifying the ignition wiring to accommodate the coil's dual output and ensure correct connections to the ignition control system, following a specific wiring diagram for the upgrade.

#### **Additional Resources**

1. Harley-Davidson Ignition Systems: A Comprehensive Guide

This book dives deep into the intricacies of Harley-Davidson ignition systems, explaining the fundamentals of ignition wiring and coil setups. It includes detailed diagrams and troubleshooting tips, making it an essential resource for mechanics and enthusiasts alike. The guide covers dual fire coil wiring, helping readers understand how to optimize performance and reliability.

#### 2. Motorcycle Electrical Systems Simplified

Focusing on the electrical systems of motorcycles, this book simplifies complex wiring concepts with clear illustrations and step-by-step instructions. It features a dedicated section on Harley ignition wiring, including dual fire coil configurations. Ideal for beginners and professionals, it balances theory with practical application.

#### 3. The Ultimate Harley Wiring Handbook

This handbook is a must-have for anyone working on Harley wiring projects, offering extensive diagrams and explanations. It covers everything from basic ignition wiring to advanced dual fire coil setups, ensuring readers can tackle any wiring challenge. The book also provides maintenance advice to keep your Harley running smoothly.

#### 4. Custom Harley Wiring: Techniques and Diagrams

Designed for custom bike builders and enthusiasts, this book explores various wiring techniques tailored for Harley motorcycles. It includes detailed dual fire coil wiring diagrams and tips for integrating aftermarket ignition systems. Readers will find valuable insights into creating clean, efficient, and reliable wiring harnesses.

#### 5. Ignition Wiring Mastery for Harley-Davidson Bikes

This title offers a focused study on mastering ignition wiring specific to Harley-Davidson motorcycles. It explains the role and wiring of dual fire coils in enhancing engine performance. The book combines theory with practical wiring diagrams and troubleshooting methods to empower readers with confidence.

#### 6. Harley Electrical Troubleshooting and Repair

A practical manual dedicated to diagnosing and fixing electrical problems in Harley motorcycles, this book addresses common ignition issues. It includes comprehensive guides on dual fire coil wiring diagrams and how to identify faults in the ignition system. The step-by-step repair procedures help reduce downtime and improve bike reliability.

#### 7. Dual Fire Coil Systems: Performance and Wiring on Harleys

This book focuses exclusively on dual fire coil systems, explaining their benefits and wiring configurations on Harley motorcycles. It offers detailed diagrams and performance tuning advice to get the most out of your ignition setup. Enthusiasts and mechanics will appreciate the in-depth technical coverage provided.

#### 8. Harley-Davidson Wiring Diagrams and Electrical Fundamentals

Serving as an essential reference, this book compiles wiring diagrams for various Harley models, including ignition and dual fire coil systems. It also covers electrical fundamentals to help readers understand how components interact within the system. The clear illustrations make it easier to follow complex wiring layouts.

#### 9. Practical Guide to Harley Ignition Modifications

This guide explores modifications and upgrades to Harley ignition systems, with a focus on improving wiring for dual fire coil setups. It discusses the impact of different wiring configurations on engine efficiency and spark delivery. Readers will gain hands-on tips and wiring diagrams to customize their ignition systems effectively.

## **Ignition Wiring Harley Dual Fire Coil Wiring Diagram**

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ignition wiring harley dual fire coil wiring diagram: Automobile Starting, Lighting, and **Ignition** Victor Wilfred Page, 2017-10-20 Excerpt from Automobile Starting, Lighting, and Ignition: Elementary Principles, Practical Application, Wiring Diagrams, and Repair Hints; A Complete Exposition Explaining All Forms of Electrical Ignition Systems Used With Internal Combustion Engines of All Types There has been no part of the automobile that has been changed more often than the ignition system. The first cars had simple battery and coil ignition, then with the introduction of the high tension magneto the systems were usually combined on the same engine in order to secure double ignition systems, either one being independent of the other. Later, as the magneto became refined and improved, a number of makers discarded the battery ignition system and placed their entire reliance on the magneto. With the coming of the demand for electrical motor starting and lighting systems came a revival of the battery ignition method which had been discarded for the high tension magneto. The main reason for using the magneto in preference to the battery system was that ignition became weaker with the latter after the engine had been run for a time owing to a lessened output of the battery. The magneto which generates electricity by a mechani cal process had the advantage because the faster it was driven the more current it delivered. In the modern automobiles an electrical current generator is provided, run by the engine which is depended on to charge a storage battery while the motor is running, the current for igni tion and lighting being taken from the storage battery instead of directly from the generator which delivers a current of varying output depending upon the engine speed which in turn regulates the rate of generator armature rotation. On many cars therefore, the battery ignition systems are used as the use of the generator keeps the battery charged always to the proper point for securing energetic ignition. The automobile repairman will have ears to repair that will use a wide variety of ignition systems, as many of those fitted with the simple battery and coil are still in use while a very large number are equipped solely with the high ten sion magneto. Many of the newer cars use improved battery igni tion systems with the high tension magneto eliminated. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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