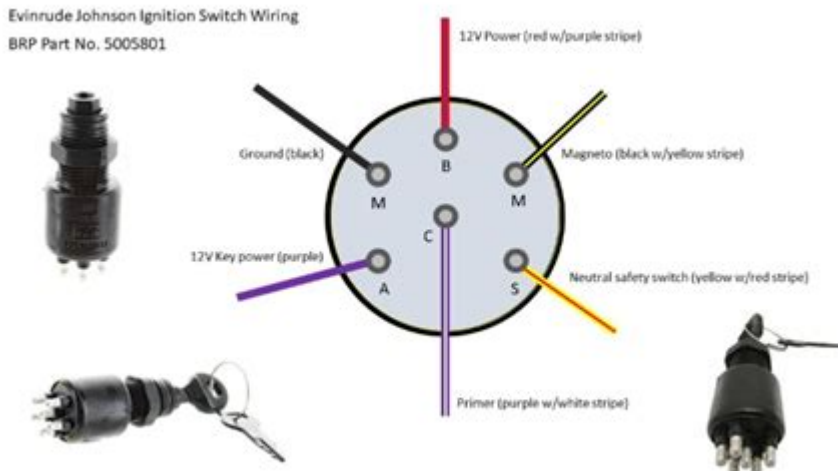


Johnson Ignition Switch Wiring Diagram



Johnson ignition switch wiring diagram is a crucial aspect for anyone involved in the maintenance or repair of Johnson outboard motors. Understanding the wiring associated with the ignition switch can significantly enhance the efficiency and reliability of your motor. This article will delve into the specifics of the wiring diagram, its components, and practical tips for troubleshooting and maintenance. Whether you're a seasoned technician or a DIY enthusiast, this comprehensive guide will provide valuable insights into the Johnson ignition switch wiring system.

Understanding the Basics of Johnson Ignition Switches

Ignition switches are essential components in outboard motors, as they control the electrical flow necessary to start and operate the engine. In Johnson outboard motors, the ignition switch serves several functions, including starting the engine, turning on accessories, and providing a means to shut off the engine in emergencies.

Components of Johnson Ignition Switches

To effectively understand the wiring diagram, it's essential to be familiar with the components associated with the ignition switch. Here are the primary components:

1. Ignition Switch: The main control element that allows the operator to start or stop the engine.
2. Battery: Supplies the necessary electrical power for the ignition system.

3. Starter Solenoid: Engages the starter motor when the ignition switch is turned to the start position.
4. Coil: Generates a high-voltage spark necessary for igniting the fuel-air mixture in the engine.
5. Kill Switch: A safety feature that stops the engine when activated.
6. Wiring Harness: A collection of wires that connects all electrical components, allowing for communication and power distribution.

Wiring Diagram Breakdown

A Johnson ignition switch wiring diagram typically illustrates how each component connects and interacts with one another. The diagram may vary slightly depending on the model and year of the motor, but the general principles remain consistent.

Common Wiring Colors and Their Functions

In most Johnson outboard motors, wiring colors follow a standard coding system, which helps in identifying the purpose of each wire. Here are the common colors and their associated functions:

- Red Wire: Battery positive (12V)
- Black Wire: Ground
- Yellow Wire: Ignition coil
- Green Wire: Kill switch
- Blue Wire: Starter solenoid
- White Wire: Accessory power

Reading the Wiring Diagram

To effectively read a wiring diagram, one must understand the symbols and lines used to represent various components and connections. Here are some tips for interpreting the diagram:

1. Identify the Components: Look for the symbols that represent the ignition switch, battery, solenoid, and other components.
2. Follow the Color Codes: Use the color-coded wiring to trace connections between components.
3. Check for Connections: Ensure that all wires connect to the correct terminals, as indicated in the diagram.
4. Look for Ground Points: Make sure that ground connections are secured, as poor grounding can lead to electrical issues.

Step-by-Step Wiring Instructions

For those looking to install or repair their ignition switch, here's a step-by-step guide based on the typical wiring setup:

Tools and Materials Needed

Before starting, gather the following tools and materials:

- Screwdriver set
- Wire cutters and strippers
- Electrical tape
- Multimeter (for testing)
- Johnson ignition switch kit (if replacement is necessary)

Installation Steps

1. **Disconnect the Battery:** Ensure that the battery is disconnected to prevent any accidental short circuits or shocks.
2. **Remove the Old Ignition Switch:** Unscrew the old ignition switch from its mounting bracket. Take note of how the wires are connected or refer to the wiring diagram for guidance.
3. **Prepare the New Switch:** If replacing the ignition switch, ensure that the new switch is compatible with your model.
4. **Connect the Wires:**
 - Connect the red wire to the positive terminal of the ignition switch.
 - Attach the black wire to the ground terminal.
 - Connect the yellow wire to the ignition coil terminal.
 - If applicable, connect the green wire from the kill switch.
 - Attach the blue wire to the starter solenoid.
 - Finally, connect any white wire to accessory power if required.
5. **Secure Connections:** Use electrical tape to insulate any exposed wires to prevent shorts.
6. **Mount the Ignition Switch:** Secure the ignition switch back into its mounting bracket.
7. **Reconnect the Battery:** Once all connections are made and secured, reconnect the battery.
8. **Test the System:** Turn the ignition key to the 'on' position and check if the accessories power up. Then, turn to the 'start' position to test the

engine start functionality.

Troubleshooting Common Issues

Even after following the wiring diagram and installation steps, issues may arise. Here are some common problems and their solutions:

Engine Won't Start

- Check Battery Voltage: Use a multimeter to test battery voltage. It should be around 12.6 volts when fully charged.
- Inspect Connections: Ensure all wires are securely connected and that there are no loose terminals.

No Spark from Ignition Coil

- Test the Coil: Use a multimeter to check for continuity in the ignition coil. Replace if faulty.
- Check Kill Switch: Ensure that the kill switch is not activated, as this will prevent the engine from starting.

Accessory Power Issues

- Review Wiring Connections: Ensure that the white wire for accessories is properly connected to the ignition switch.
- Inspect Fuses: Check for blown fuses in the accessory circuit.

Conclusion

Understanding the Johnson ignition switch wiring diagram is essential for maintaining and troubleshooting Johnson outboard motors. By familiarizing yourself with the components, wiring colors, and installation steps, you can effectively manage your motor's ignition system. Regular maintenance and troubleshooting can prevent potential issues, ensuring that your outboard motor operates efficiently and reliably. Whether you are performing routine checks or major repairs, having this knowledge will empower you to keep your boat on the water and functioning at its best.

Frequently Asked Questions

What is a Johnson ignition switch wiring diagram used for?

A Johnson ignition switch wiring diagram is used to understand the electrical connections and wiring layout for the ignition system in Johnson outboard motors, ensuring proper installation and troubleshooting.

Where can I find a reliable Johnson ignition switch wiring diagram?

Reliable Johnson ignition switch wiring diagrams can be found in the owner's manual of the outboard motor, on the official Johnson website, or through trusted marine repair and parts websites.

What are the common issues related to Johnson ignition switch wiring?

Common issues include faulty connections, corroded wires, incorrect wiring configurations, and damaged ignition switches, which can lead to starting problems or electrical failures.

How can I troubleshoot ignition problems using the wiring diagram?

To troubleshoot ignition problems, compare the wiring connections against the diagram, check for continuity in wires, look for signs of damage or corrosion, and ensure all connections are secure.

Are there different wiring diagrams for various Johnson motor models?

Yes, there are different wiring diagrams for various Johnson motor models, so it's essential to use the correct diagram that matches the specific model and year of your outboard motor.

Can I use a Johnson ignition switch wiring diagram for other brands of outboard motors?

While some general principles may apply, it's not advisable to use a Johnson ignition switch wiring diagram for other brands, as wiring configurations and components can differ significantly between manufacturers.

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