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John Deere KXE10357

John Deere Relay Kit KXE10357 Instruction Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your John Deere Relay Kit KXE10357. This genuine John Deere part is designed to ensure optimal performance and compatibility with your equipment. Please read this manual thoroughly before proceeding with installation or use.

2. Safety Information

Always prioritize safety when working with electrical components and machinery. Failure to follow safety instructions can result in serious injury or damage to equipment.

- **Disconnect Power:** Before installing or servicing the relay, ensure all power to the equipment is disconnected and secured against accidental re-engagement.
- **Wear Protective Gear:** Use appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- **Qualified Personnel:** If you are unsure about any step, consult a qualified technician or John Deere service center.
- **Inspect Components:** Before installation, inspect the relay and associated wiring for any signs of damage. Do not install damaged parts.
- **Correct Polarity:** Ensure correct polarity when connecting the relay to avoid damage to the component or electrical system.

3. Product Overview

The John Deere Relay Kit KXE10357 is an original equipment manufacturer (OEM) part designed to control electrical circuits within your John Deere machinery. Relays act as electrical switches, allowing a low-power signal to control a high-power circuit, protecting sensitive components and enabling various functions.



Figure 3.1: John Deere Relay Kit KXE10357. This image displays the John Deere Relay Kit KXE10357, showing its packaging and the relay component. The packaging indicates it is a genuine OEM part, with various other John Deere parts visible in the background.

4. Setup and Installation

Installation of the KXE10357 relay typically involves replacing an existing relay or integrating it into a new electrical circuit. Always refer to your specific John Deere equipment's service manual for detailed, model-specific installation instructions and wiring diagrams.

General Installation Steps:

1. **Preparation:** Ensure the equipment is turned off, the ignition key is removed, and the battery is disconnected to prevent accidental power-up.
2. **Locate Relay:** Identify the location of the relay to be replaced or the designated mounting point for the new relay. This is often in a fuse box, control panel, or wiring harness.
3. **Remove Old Relay (if applicable):** Carefully disconnect any wiring from the old relay and unmount it. Note the

orientation and connection points.

4. **Connect New Relay:** Connect the KXE10357 relay to the appropriate wiring harness or terminals. Ensure all connections are secure and match the original configuration or wiring diagram.
5. **Mount Relay:** Securely mount the new relay in its designated position.
6. **Test:** Reconnect the battery. Before operating the equipment, perform a functional test to ensure the relay operates correctly and the associated circuit is functioning as intended.

If you are not comfortable performing electrical work, it is highly recommended to have the installation performed by a certified John Deere technician.

5. Operating Principles

Once installed, the John Deere Relay Kit KXE10357 operates automatically as part of your equipment's electrical system. Its primary function is to switch a higher current circuit on or off based on a lower current input signal from a control module, switch, or sensor.

- **Activation:** When the control signal is received, an electromagnet inside the relay is energized, causing a set of contacts to close or open.
- **Circuit Control:** This action completes or breaks the circuit for the connected component (e.g., lights, starter motor, fan).
- **Protection:** By isolating the control circuit from the high-current load, the relay protects sensitive switches and wiring from excessive current.

The relay's operation is typically silent or produces a faint click when activated. Its "Automatic" operation mode means it responds to electrical signals without manual intervention.

6. Maintenance

Relays are generally low-maintenance components. However, periodic inspection can help ensure their longevity and reliable operation.

- **Visual Inspection:** Periodically check the relay and its connections for signs of corrosion, loose wires, or physical damage.
- **Cleanliness:** Keep the area around the relay clean and free from dirt, moisture, and debris.
- **Connection Integrity:** Ensure all electrical connections to the relay are tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Replacement:** If the relay shows signs of failure (e.g., intermittent operation, not clicking, visible damage), it should be replaced with a genuine John Deere KXE10357 part.

7. Troubleshooting

If you experience issues with a circuit controlled by the KXE10357 relay, consider the following troubleshooting steps:

- **No Click/No Function:**
    - Check the fuse for the circuit controlled by the relay.
    - Verify that the control signal (input voltage) is reaching the relay.
    - Ensure the relay has a proper ground connection.
    - Inspect the relay terminals for corrosion or damage.
- **Intermittent Operation:**

- Check for loose wiring connections at the relay or in the circuit.
- Inspect the relay for signs of overheating or internal damage.
- Test the relay by swapping it with a known good relay (if available and compatible) in a non-critical circuit.

- **Relay Stays On/Off:**
  - This could indicate a stuck contact within the relay or a continuous control signal.
  - Verify the control signal is turning off when it should.

If troubleshooting does not resolve the issue, the relay may need to be replaced. Always use genuine John Deere replacement parts.

8. Specifications

Attribute	Value
Product Name	Relay Kit
Model Number	KXE10357
Brand	John Deere
Manufacturer	John Deere
Product Dimensions	6.4 x 6.3 x 6.3 inches
Item Weight	11.2 ounces
Operation Mode	Automatic
ASIN	B0749R8P2Q
Global Trade Identification Number	00196508159705

9. Warranty and Support

John Deere genuine parts are backed by a manufacturer's warranty. For specific warranty terms and conditions applicable to the KXE10357 Relay Kit, please refer to the warranty information provided with your original equipment or contact an authorized John Deere dealer.

For technical support, service, or to purchase additional genuine John Deere parts, please contact your local authorized John Deere dealer or visit the official John Deere website.

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