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Grote 82-1905

Grote 82-1905 Illuminated Toggle Switch User Manual

Model: 82-1905 | Brand: Grote

Product Overview

The Grote 82-1905 is an illuminated toggle switch designed for various automotive and electrical applications. It features a durable metal construction, a red illuminated lever, and a simple ON-OFF operation mode. This manual provides essential information for the proper installation, operation, and maintenance of your Grote 82-1905 toggle switch.

Figure 1: Front view of the Grote 82-1905 Illuminated Toggle Switch, showing the red lever and connection terminals.

Setup and Installation

Proper installation is crucial for the safe and effective operation of the toggle switch. Always ensure the power source is disconnected before beginning installation.

Tools and Materials Required:

- Wire strippers
- Crimping tool (for quick connect terminals)
- Appropriate gauge wiring
- Drill and drill bit (if mounting in a new location)
- Multimeter (for testing connections)

Wiring Instructions:

The Grote 82-1905 features three blade terminals for connection. Refer to the diagram below for typical wiring

configurations. The terminals are typically labeled or can be identified by their function:

1. **Power (Input):** Connect this terminal to the positive (+) power source (e.g., battery, fuse box).
2. **ACC (Accessory/Load):** Connect this terminal to the positive (+) lead of the device or accessory you wish to power (e.g., lights, fan).
3. **Ground:** Connect this terminal to a reliable chassis ground or negative (-) terminal of the power source. This connection is essential for the illumination feature to function.

Figure 2: Close-up of the Grote 82-1905 switch terminals, showing labels for Power, ACC, and Ground connections. Ensure correct polarity.

Important: Ensure all connections are secure and insulated to prevent short circuits. Use appropriate fuses in your circuit to protect the switch and connected devices.

Operating Instructions

The Grote 82-1905 is an ON-OFF toggle switch, providing simple control over your electrical circuit.

- **To Turn ON:** Push the toggle lever to the "ON" position. The switch's internal illumination will light up, indicating that power is flowing to the connected accessory.
- **To Turn OFF:** Push the toggle lever to the "OFF" position. The illumination will turn off, and power to the connected accessory will be interrupted.

The switch is designed for momentary or continuous use within its specified voltage and current ratings.

Maintenance

The Grote 82-1905 toggle switch is designed for durability and requires minimal maintenance. However, periodic checks can ensure its longevity and reliable performance.

- **Cleaning:** Use a dry, soft cloth to wipe the exterior of the switch. Avoid using harsh chemicals or abrasive cleaners, which can damage the finish or internal components.
- **Connection Check:** Periodically inspect the wiring connections to ensure they remain secure and free from corrosion. Loose connections can lead to intermittent operation or overheating.
- **Environmental Protection:** While robust, avoid exposing the switch to excessive moisture, dust, or extreme temperatures beyond its operating specifications, unless it is specifically rated for such conditions.

Troubleshooting

If you encounter issues with your Grote 82-1905 toggle switch, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Switch does not illuminate.	No ground connection; faulty illumination circuit; incorrect wiring.	Verify ground wire is securely connected. Check all wiring for correct polarity and continuity.
Connected device does not turn ON.	No power to switch; faulty switch; loose connections; blown fuse in circuit.	Check power supply to the switch. Inspect all wiring connections. Check and replace any blown fuses. Test the switch for continuity with a multimeter.
Switch feels loose or sticky.	Wear and tear; internal damage.	If the switch mechanism is compromised, replacement may be necessary.

If problems persist after following these steps, contact Grote customer support or consult a qualified electrician.

Specifications

Key technical specifications for the Grote 82-1905 Toggle Switch:

Feature	Detail
Model Number	82-1905
Brand	Grote
Operation Mode	ON-OFF
Voltage	12 Volts
Current Rating	20 Amps

Feature	Detail
Material	Metal
Connector Type	Quick Connect
Item Weight	0.48 ounces
Product Dimensions	1 x 1 x 1 inches

Warranty and Support

Grote products are manufactured to high standards. For specific warranty information, please refer to the packaging or the official Grote website. For technical support or inquiries, please contact Grote customer service.
Grote Official Website: www.grote.com
Customer Service: Refer to the contact section on the official website for phone numbers or email support.

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