

[Manuals.plus](#) /

- › [Standard Motor Products](#) /
- › Standard Motor Products RY238 Relay User Manual

Standard Motor Products RY238

Standard Motor Products RY238 Relay User Manual

Brand: Standard Motor Products | **Model:** RY238

1. PRODUCT OVERVIEW

The Standard Motor Products RY238 is an automotive circuit opening relay designed for various vehicle electrical systems. This component is crucial for controlling the flow of electricity to specific circuits, ensuring proper operation and protection of connected devices. It features a normally open contact type and is designed for surface mounting with screw-type connectors.

Key characteristics include:

- **Product Type:** Auto Part
- **Operation Mode:** Automatic
- **Contact Material:** Silver
- **Number of Terminals:** 3
- **Country Of Origin:** China

2. PRODUCT IMAGE

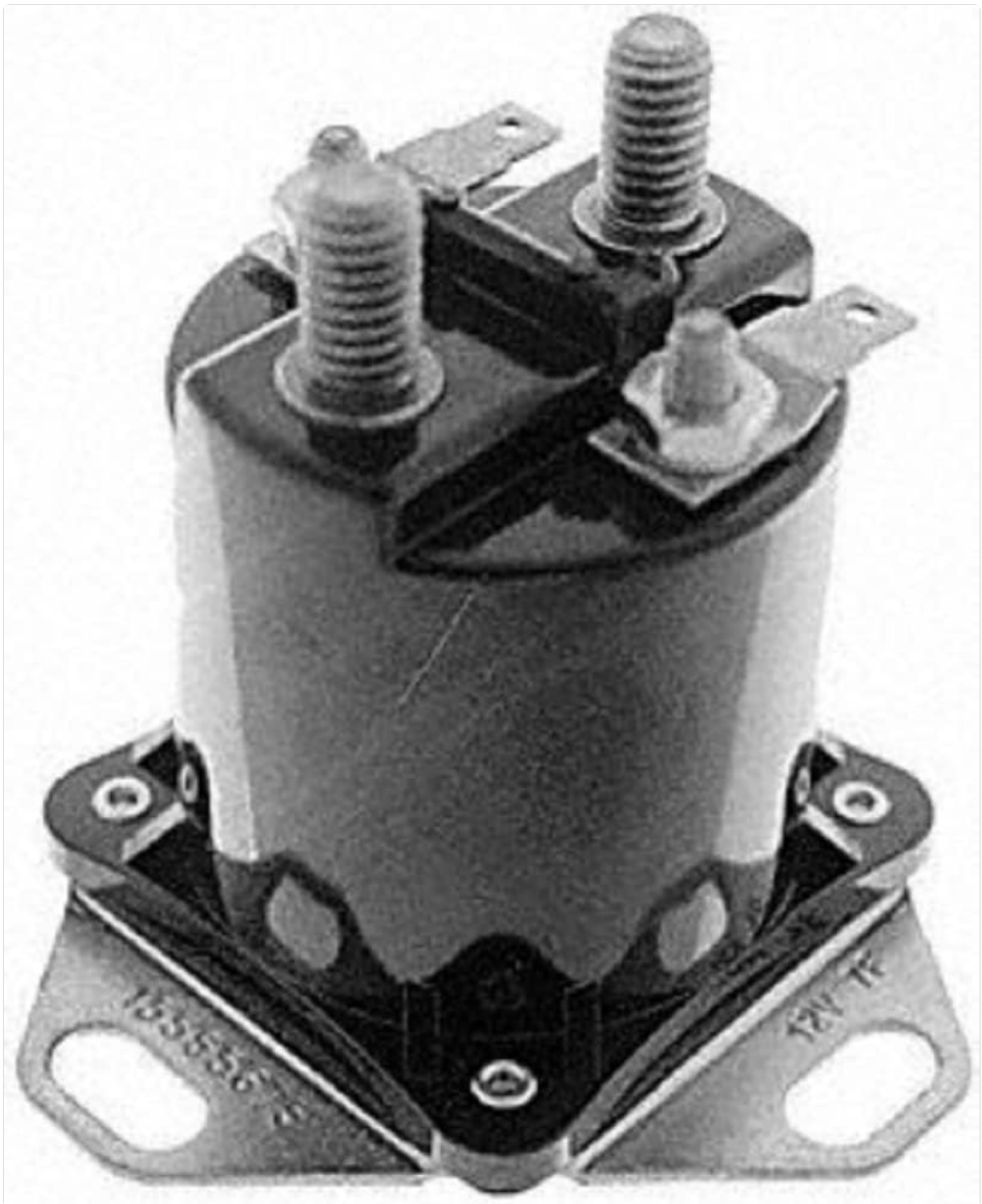


Figure 1: Front view of the Standard Motor Products RY238 Relay. This image displays the cylindrical body of the relay, the metal mounting bracket with two mounting holes, and the three screw terminals on top for electrical connections. The terminals are clearly visible, indicating the points for wiring.

3. SETUP AND INSTALLATION

Installation of the RY238 Relay should be performed by a qualified technician or individuals with experience in automotive electrical systems. Incorrect installation can lead to damage to the relay or the vehicle's electrical components.

1. **Safety First:** Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits or electrical shock.
2. **Identify Location:** Locate the existing relay that needs replacement or the designated mounting point for the new relay.

3. **Mounting:** The RY238 Relay is designed for surface mounting. Secure the relay firmly using the provided mounting holes on its bracket. Ensure the mounting surface is stable and free from excessive vibration.
4. **Wiring Connections:** This relay features 3 screw-type terminals. Carefully identify the correct wiring for each terminal based on your vehicle's wiring diagram.
 - Connect the appropriate wires to each terminal, ensuring a secure and tight connection.
 - Verify that all connections are correct before proceeding.
5. **Reconnect Battery:** Once the relay is securely mounted and all electrical connections are verified, reconnect the vehicle's battery.
6. **Test Functionality:** Test the circuit controlled by the relay to ensure it operates correctly.

***Note:** Always refer to your vehicle's specific service manual for detailed wiring diagrams and installation procedures.*

4. OPERATING INSTRUCTIONS

The Standard Motor Products RY238 Relay operates automatically within the vehicle's electrical system. As a circuit opening relay, its primary function is to control the flow of current to a specific circuit based on an input signal. When the control signal is received, the relay's internal contacts will switch, either opening or closing the main power circuit as designed.

- **Automatic Operation:** The relay is designed to function without direct user intervention once installed correctly.
- **Circuit Control:** It acts as an electrical switch, enabling or disabling power to components such as fuel pumps, starter motors, or other accessories, depending on its application in the vehicle.
- **Normally Open (NO):** This relay has a normally open contact type, meaning the circuit is open (no current flow) when the relay is de-energized. When energized, the contacts close, allowing current to flow.

No specific user interaction is required for the operation of this relay beyond ensuring the vehicle's electrical system is functioning as intended.

5. MAINTENANCE

The Standard Motor Products RY238 Relay is a sealed unit and generally requires no routine maintenance. However, periodic inspection of its connections and surrounding area is recommended as part of general vehicle maintenance.

- **Visual Inspection:** Periodically check the relay and its wiring for any signs of corrosion, loose connections, or physical damage.
- **Cleanliness:** Ensure the area around the relay is free from excessive dirt, moisture, or debris that could affect its performance or lead to corrosion.
- **Connection Integrity:** Verify that the screw terminals remain tight and secure. Loose connections can lead to intermittent operation or overheating.

If any issues are observed, consult a qualified automotive technician.

6. TROUBLESHOOTING

If the circuit controlled by the RY238 Relay is not functioning correctly, consider the following troubleshooting steps:

- **No Power to Component:**
 - Check the fuse associated with the circuit the relay controls. A blown fuse will prevent the relay from receiving power or sending power to the component.
 - Verify that the relay is receiving the correct control signal. Use a multimeter to check for voltage at the control terminals.
 - Inspect all wiring connections to the relay for looseness or corrosion.
- **Component Stays On/Off (Incorrectly):**
 - If the component is always on or always off, the relay's internal contacts may be stuck open or closed. This typically indicates a faulty relay that needs replacement.
 - Ensure the control signal is correctly activating/deactivating the relay.
- **Clicking Sound but No Action:**
 - A clicking sound indicates the relay coil is energizing, but the contacts may not be making a good connection or are damaged. This often points to a faulty relay.
 - Check for sufficient voltage and current to the relay's power terminals. Low voltage can cause weak contact engagement.

If troubleshooting does not resolve the issue, it is recommended to replace the relay or consult a professional automotive technician.

7. SPECIFICATIONS

Feature	Detail
Brand	Standard Motor Products
Model Number	RY238
Product Type	Auto Part (Relay)
Connector Type	Screw
Contact Material	Silver
Contact Type	Normally Open
Mounting Type	Surface Mount
Operation Mode	Automatic
Number of Terminals	3
Item Weight	15.2 ounces
Product Dimensions (L x W x H)	3.88 x 3.38 x 3.88 inches (packaging: 9.9" x 6.19" x 4.19")
UPC	091769201739
Country Of Origin	China

8. WHAT'S IN THE BOX

The package for the Standard Motor Products RY238 Relay typically includes:

- One (1) Standard Motor Products RY238 Relay

No additional accessories or installation hardware are typically included unless specified by the retailer or manufacturer.

9. WARRANTY AND SUPPORT

Specific warranty information for the Standard Motor Products RY238 Relay is not provided in this manual. For details regarding warranty coverage, terms, and conditions, please refer to the product packaging, the manufacturer's official website, or contact Standard Motor Products customer support directly.

For technical assistance or further inquiries, please reach out to Standard Motor Products customer service.

Always retain your proof of purchase for warranty claims.