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Razor 119-170-4473

Razor 20A Reset Switch Instruction Manual

Model: 119-170-4473

1. Product Overview

This manual provides essential information for the installation, operation, and maintenance of the Razor 20A Reset Switch. This component is a crucial safety device designed to protect electrical circuits from overcurrent conditions.
The Razor 20A Reset Switch is an original equipment manufacturer (OEM) part, specifically designed for various Razor electric vehicles. It functions as a circuit breaker, automatically tripping to interrupt the circuit when the current exceeds 20 amperes, thereby preventing damage to the electrical system.



Figure 1: The Razor 20A Reset Switch. This image shows the compact black housing of the circuit breaker with a central push-button reset mechanism and two flat spade terminals at the bottom for electrical connection. The label "ST104 20A 32V DC" is visible on the front.

2. Compatibility

This 20 Amp Reset Switch (Part W151250011112) is compatible with the following Razor electric models:

- Razor E100 Electric Scooter
- Razor E200 Electric Scooter
- Razor E300 Electric Scooter
- Razor eSpark Electric Scooter
- Razor Pocket Rocket
- Razor Ground Force Go-Kart
- Razor Ground Force Drifter
- Razor Mini Chopper

Always verify the part number and specifications against your specific model's requirements before installation.

3. Installation Instructions

Safety First: Before beginning any installation, ensure the power source to the vehicle is completely disconnected. This typically involves removing the battery pack or disconnecting the main battery terminals to prevent accidental electrical shock or damage to the system.

1. **Locate the Existing Circuit Breaker:** Identify the current circuit breaker in your Razor electric vehicle. Its location may vary by model, but it is typically found near the battery compartment or within the main electrical housing.
2. **Disconnect Wiring:** Carefully disconnect the two electrical wires connected to the existing circuit breaker. Note the orientation of the wires if they are not identical, though for a simple circuit breaker, polarity is often not critical.
3. **Remove Old Circuit Breaker:** If the old circuit breaker is mounted, unfasten any screws or clips securing it in place.
4. **Install New Circuit Breaker:** Position the new Razor 20A Reset Switch in the same location as the old one. Secure it using the original mounting hardware if applicable. The switch is designed for panel mounting.
5. **Connect Wiring:** Reconnect the electrical wires to the terminals of the new 20A Reset Switch. Ensure connections are firm and secure to prevent loose contacts, which can lead to overheating or intermittent operation.
6. **Verify Installation:** Once the new circuit breaker is installed and wired, carefully re-connect the vehicle's power source.
7. **Test Functionality:** Perform a functional test to ensure the vehicle operates correctly and the circuit breaker resets as expected. If the circuit breaker trips immediately upon power-up or during normal operation without an apparent overload, re-check your wiring and the vehicle's electrical system for other issues.

Note: If you are unsure about any step, it is recommended to consult a qualified technician or refer to your specific Razor model's service manual.

4. Operation

The Razor 20A Reset Switch operates as an automatic circuit breaker. Under normal operating conditions, current flows through the switch, allowing the electric vehicle to function.

Automatic Trip: If an overcurrent condition occurs (e.g., a short circuit, motor overload, or battery issue causing current to exceed 20 Amps), the internal mechanism of the circuit breaker will heat up and automatically trip, opening the circuit and cutting off power to prevent damage to the vehicle's electrical components.

Manual Reset: Once the circuit breaker has tripped, the power will remain off. To restore power, you must first identify and resolve the cause of the overcurrent. After the issue is addressed, press the black button on the top of the circuit breaker firmly until it clicks into place. This action manually resets the breaker, closing the circuit and restoring power.

Caution: Do not repeatedly reset the circuit breaker without investigating the cause of the trip. Continuous tripping

indicates an underlying electrical problem that needs to be resolved to prevent serious damage or fire hazards.

5. Maintenance

The Razor 20A Reset Switch is designed to be a low-maintenance component. However, periodic inspection can help ensure its continued reliability.

- **Visual Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, such as cracks in the housing, corrosion on the terminals, or discoloration from overheating.
- **Connection Check:** Ensure that the electrical connections to the circuit breaker remain tight and free from corrosion. Loose connections can generate heat and lead to inefficient operation or premature tripping.
- **Cleanliness:** Keep the area around the circuit breaker clean and free from dirt, debris, or moisture, which could interfere with its operation.

If the circuit breaker shows signs of damage, frequent tripping without an apparent cause, or fails to reset, it should be replaced immediately with an authentic Razor replacement part.

6. Troubleshooting

This section addresses common issues related to the 20A Reset Switch.

Problem	Possible Cause	Solution
Circuit breaker trips frequently.	• Overload on the circuit (e.g., motor drawing too much current). • Short circuit in the wiring or components. • Faulty battery. • Circuit breaker itself is faulty or worn out.	• Reduce load or check for obstructions in the motor/drive train. • Inspect wiring for frayed insulation or pinched wires. • Test battery voltage and capacity. • Replace the circuit breaker.
Circuit breaker does not reset.	• Still an active overcurrent condition. • Internal mechanism of the circuit breaker is damaged.	• Ensure the cause of the trip is resolved before attempting to reset. • Replace the circuit breaker.
No power to vehicle, but circuit breaker is not tripped.	• Loose wiring connection to the circuit breaker. • Other electrical component failure (e.g., fuse, controller, battery).	• Check all wiring connections for tightness. • Diagnose other electrical components.

If troubleshooting steps do not resolve the issue, contact Razor customer support or a certified technician.

7. Specifications

Feature	Detail
Brand	Razor
Model Number	119-170-4473
Part Number	W151250011112

Feature	Detail
Current Rating	20 Amps
Voltage Rating	32V DC
Circuit Breaker Type	Standard, Push-Button Reset
Mounting Type	Panel Mount
Number of Poles	1
Dimensions (Approx.)	2.56 x 2.32 x 1.42 inches

8. Warranty Information

For specific warranty details regarding your Razor 20A Reset Switch or the Razor product it is installed in, please refer to the warranty documentation provided with your original Razor electric vehicle or visit the official Razor website. Warranty terms typically cover manufacturing defects and material flaws for a specified period from the date of purchase.
Keep your proof of purchase for any warranty claims.

9. Customer Support

If you require further assistance, have questions about installation, or need to report a defective part, please contact Razor Customer Support:

- **Website:** Visit the official Razor website for FAQs, support articles, and contact information.
- **Phone:** Refer to your Razor product's original manual or the Razor website for the most current customer service phone number.
- **Online Contact Form:** Many issues can be resolved by submitting a request through the online contact form available on the Razor support page.

When contacting support, please have your product model number (119-170-4473) and the part number (W151250011112) ready for faster service.

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