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› Bradford White 2394367601 THERMAL RESET SWITCH User Manual

Bradford White 2394367601

Bradford White 2394367601 Thermal Reset Switch

Model: 2394367601

PRODUCT OVERVIEW

The Bradford White 2394367601 Thermal Reset Switch is a critical safety component designed to protect heating systems, such as water heaters, from overheating. This device is engineered to automatically interrupt the electrical circuit when a predetermined high-temperature limit is reached, preventing potential damage to the appliance and ensuring user safety. Once the temperature returns to a safe operating range, the switch automatically resets, allowing the system to resume normal operation.



Image: A close-up view of the Bradford White 2394367601 Thermal Reset Switch, showing its compact design with two brass terminals and a central black housing with a red reset button.

IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before installing or servicing this component. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Electrical Hazard:** Always disconnect power to the appliance before installing, removing, or servicing the thermal reset switch.
- **Qualified Personnel:** Installation and service should only be performed by a qualified technician or licensed professional.
- **Component Compatibility:** Ensure this thermal reset switch is the correct replacement part for your specific appliance model. Refer to your appliance's service manual.
- **Proper Mounting:** The switch must be securely mounted in its designated location to ensure accurate temperature

sensing and proper operation.

- **Do Not Bypass:** Never bypass or tamper with the thermal reset switch, as it is a critical safety device.

INSTALLATION GUIDE

This guide provides general instructions. Always refer to the specific service manual for your appliance for detailed, model-specific installation procedures.

1. **Disconnect Power:** Turn off all electrical power to the appliance at the main circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Access Switch:** Locate the existing thermal reset switch on your appliance. This may require removing access panels.
3. **Remove Old Switch:** Carefully disconnect the electrical wires from the old switch. Note the wiring configuration if necessary. Remove any mounting screws or clips securing the old switch.
4. **Install New Switch:** Position the new Bradford White 2394367601 Thermal Reset Switch in the exact location of the old one. Secure it using the original mounting hardware.
5. **Connect Wiring:** Reconnect the electrical wires to the new switch's terminals. Ensure connections are secure and correct.
6. **Restore Access:** Replace any access panels or covers that were removed.
7. **Restore Power:** Turn on the electrical power to the appliance.
8. **Test Operation:** Monitor the appliance to ensure it operates correctly and the thermal switch does not trip prematurely under normal conditions.

OPERATION

The Bradford White 2394367601 Thermal Reset Switch operates automatically. It is a normally open (NO) contact type, meaning the circuit is open (power is off) when the temperature exceeds its set limit, and closes (power is on) when the temperature is within the safe operating range. There is no manual reset button on this specific model; it is designed for automatic reset once the temperature drops below the trip point.

When the appliance's internal temperature reaches an unsafe level, the bimetallic disc within the switch snaps, opening the electrical circuit and shutting down the heating element or burner. This prevents further temperature increase. Once the temperature cools down sufficiently, the bimetallic disc snaps back, closing the circuit and allowing the appliance to resume operation.

MAINTENANCE

The Bradford White 2394367601 Thermal Reset Switch is a sealed component and does not require routine maintenance or lubrication. However, periodic inspection of the switch and its wiring connections is recommended as part of your appliance's overall maintenance schedule.

- **Visual Inspection:** Annually inspect the switch for any signs of physical damage, corrosion, or loose wiring connections.

- **Cleanliness:** Ensure the area around the switch is free from dust, debris, or obstructions that could affect its ability to sense temperature accurately.
- **Functionality Check:** If the appliance frequently trips the thermal switch, it indicates an underlying issue with the appliance itself, not necessarily the switch. Do not attempt to bypass the switch; instead, consult a qualified technician to diagnose the root cause of the overheating.

TROUBLESHOOTING

If your appliance is not operating, and you suspect the thermal reset switch may be involved, consider the following:

- **Appliance Not Heating/Operating:**
 - **Check Power:** Ensure the appliance has power from the main circuit breaker.
 - **Overheating Condition:** The thermal switch may have tripped due to an overheating condition. Allow the appliance to cool down completely. Since this is an automatic reset switch, it should reset on its own once the temperature drops.
 - **Underlying Issue:** Frequent tripping of the thermal switch indicates a problem with the appliance (e.g., faulty thermostat, heating element, or restricted airflow). This requires professional diagnosis and repair.
- **Switch Appears Damaged:** If the switch shows signs of burning, melting, or physical damage, it must be replaced immediately by a qualified technician.
- **Incorrect Temperature Readings:** If the appliance is not reaching desired temperatures or is constantly overheating, the thermal switch might be faulty or the primary thermostat is malfunctioning.

Note: Do not attempt to force the switch to reset or bypass it. This is a safety device, and its activation indicates a potentially dangerous condition. Always consult a qualified technician for complex diagnostics and repairs.

TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Bradford White
Model Number	2394367601 or 239-43676-01
ASIN	B00QW2NB06
Operation Mode	Automatic
Contact Type	Normally Open
Connector Type	Screw
Terminal	Screw
Package Dimensions	3.31 x 1.1 x 0.94 inches
Item Weight	0.21 ounces

WARRANTY INFORMATION

Specific warranty details for the Bradford White 2394367601 Thermal Reset Switch are not provided in this manual. For information regarding product warranty, please refer to the documentation included with your original appliance or contact Bradford White directly. Warranty terms typically vary based on the product and region.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries regarding the Bradford White 2394367601 Thermal Reset Switch, please contact Bradford White customer support or a certified service technician. Always provide the full model number of your appliance and the thermal switch when seeking support.

You can typically find contact information for Bradford White on their official website or in the documentation that came with your appliance.

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