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› [Doyon](#) /

› Doyon ELT503 Thermodisc High Limit Switch User Manual

Doyon ELT503

Doyon ELT503 Thermodisc High Limit Switch User Manual

MODEL: ELT503

1. Product Overview

The Doyon ELT503 Therm-O-Disc high limit switch is a genuine OEM (Original Equipment Manufacturer) replacement part designed for use with Doyon Piz3-6 electric pizza deck ovens. This critical component functions as a safety device, activating at 140°F (60°C) to prevent overheating and ensure the safe operation of the oven. It is manufactured by Doyon, a producer of equipment for the foodservice industry.



Figure 1: The Doyon ELT503 Thermodisc High Limit Switch. This image shows the compact, disc-shaped switch with two electrical terminals and a metal mounting bracket with two screw holes. The label on the switch body indicates "610050", "TOD 60T12", "A1549", and "F150-20F", which are part numbers and temperature ratings.

2. What's in the Box

Upon opening the package, you should find the following item:

- One (1) Doyon ELT503 Thermodisc High Limit Switch

3. Specifications

Attribute	Detail
Model Number	ELT503
Manufacturer	Doyon
Activation Temperature	140°F (60°C)
Compatibility	Doyon Piz3-6 Electric Pizza Deck Oven
Package Dimensions	10 x 7 x 6 inches
Item Weight	1.6 ounces
Country of Origin	Mexico

4. Setup and Installation

The Doyon ELT503 Thermodisc High Limit Switch is a replacement part intended for installation by qualified service personnel. Improper installation can lead to equipment damage or personal injury. Always ensure the equipment is disconnected from the power supply before attempting any installation or maintenance.

1. **Safety First:** Disconnect the Doyon Piz3-6 electric pizza deck oven from its power source and allow it to cool completely before beginning any work.
2. **Locate Existing Switch:** Identify the current high limit switch within the oven's electrical system. Refer to the oven's service manual or wiring diagrams for precise location.
3. **Remove Old Switch:** Carefully disconnect the electrical terminals from the old switch. Note the orientation and connection points for proper reinstallation. Unscrew or unmount the old switch from its position.
4. **Install New Switch:** Mount the new Doyon ELT503 switch in the same location and orientation as the old one. Secure it firmly using the existing mounting hardware.
5. **Connect Wiring:** Reconnect the electrical terminals to the new switch, ensuring all connections are secure and match the original configuration.
6. **Verify Installation:** Double-check all connections and mounting points. Ensure no wires are pinched or exposed.
7. **Restore Power:** Once installation is complete and verified, restore power to the oven.

It is highly recommended to consult the specific service manual for your Doyon Piz3-6 oven for detailed, model-specific installation instructions and safety precautions.

5. Operating Principles

The Doyon ELT503 Thermodisc High Limit Switch operates as a normally closed (NC) safety device. This means that under normal operating temperatures, the switch allows electrical current to pass through. If the temperature within the oven, specifically at the sensor's location, exceeds 140°F (60°C) due to a malfunction or other issue, the bimetallic disc inside the switch will rapidly change shape, opening the electrical circuit. This interruption of the circuit will typically shut down the heating elements of the oven, preventing further temperature increase and potential damage or fire hazard. Once the temperature drops below the reset threshold (which is typically lower than the activation temperature), the switch will automatically reset, allowing the oven to resume normal operation, provided the underlying issue has been resolved.

6. Maintenance

The Doyon ELT503 Thermodisc High Limit Switch is a sealed component and does not require routine user maintenance. However, regular inspection of the oven's electrical system and components, including the high limit switch, is recommended as part of a comprehensive preventative maintenance program for your Doyon Piz3-6 electric pizza deck oven.

- **Visual Inspection:** Periodically inspect the switch and its wiring for any signs of physical damage,

corrosion, or loose connections.

- **Cleanliness:** Ensure the area around the switch is free from grease, dust, or debris that could impede its function or lead to overheating.
- **Professional Check:** It is advisable to have a qualified technician periodically check the functionality of safety components like the high limit switch during routine oven servicing.

Always disconnect power to the oven before performing any inspection or cleaning.

7. Troubleshooting

If your Doyon Piz3-6 electric pizza deck oven is experiencing issues related to overheating or unexpected shutdowns, the high limit switch may be involved. This section provides general troubleshooting guidance. Always consult a qualified technician for diagnosis and repair.

- **Oven Not Heating:** If the oven is not heating at all, and other components appear functional, the high limit switch might have tripped and not reset, or it could be faulty.
- **Frequent Shutdowns:** If the oven frequently shuts down unexpectedly, it could indicate that the high limit switch is activating. This might be due to:
 - Actual overheating of the oven (e.g., faulty thermostat, blocked ventilation).
 - A faulty high limit switch that is tripping prematurely.
 - Loose or corroded wiring connections to the switch.
- **Visual Inspection:** Check the switch for any visible damage, burn marks, or loose connections.
- **Testing (Professional Only):** A qualified technician can test the continuity of the switch using a multimeter to determine if it is functioning correctly at ambient temperature and if it opens at the specified activation temperature.

Do not attempt to bypass or modify the high limit switch, as this is a critical safety device and doing so could lead to dangerous operating conditions.

8. Warranty and Support

As a genuine OEM replacement part, the Doyon ELT503 Thermodisc High Limit Switch is typically covered by Doyon's standard warranty for replacement parts. For specific warranty terms, duration, and claim procedures, please refer to the warranty documentation provided with your original Doyon Piz3-6 electric pizza deck oven or contact Doyon customer support directly.

For technical support, replacement part inquiries, or service assistance, please contact Doyon customer service or an authorized Doyon service provider. When contacting support, please have your oven's model and serial number, as well as the part number (ELT503) of the high limit switch, readily available.

You can find more information and contact details on the official Doyon website: www.doyon.qc.ca