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Danfoss 077B0033

Danfoss 25T65 077B0033 Standard Refrigerator Thermostat Instruction Manual

Model: 077B0033

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Danfoss 25T65 077B0033 Standard Refrigerator Thermostat. Please read these instructions carefully before proceeding with installation or use to ensure safe and efficient performance. This thermostat is designed for use in refrigerators to regulate internal temperature.

2. SAFETY INFORMATION

Warning: Electrical work should only be performed by qualified personnel. Disconnect power to the appliance before installing or servicing the thermostat to prevent electric shock.

- Always disconnect the refrigerator from the main power supply before attempting any installation, maintenance, or repair.
- Ensure that all wiring connections are secure and comply with local electrical codes.
- Do not operate the refrigerator if the thermostat or any other electrical component is damaged.
- Keep children away from the appliance during installation and maintenance.

3. PRODUCT OVERVIEW

The Danfoss 25T65 077B0033 is a standard refrigerator thermostat designed to control the cooling cycle of your appliance. It features a capillary tube for temperature sensing and electrical terminals for connection to the refrigerator's compressor and power supply. The thermostat is crucial for maintaining the desired temperature range within the refrigerator compartment.

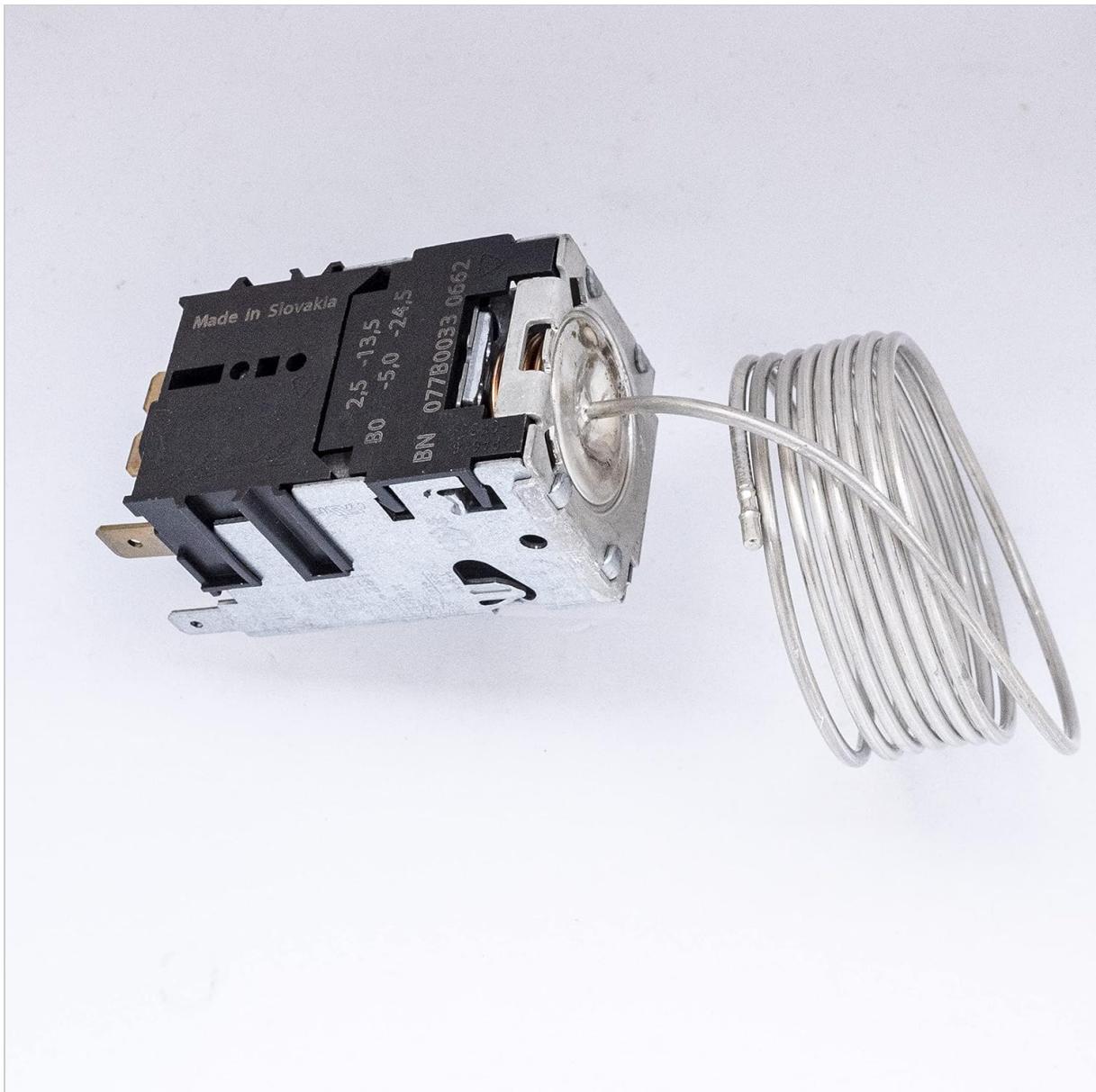


Figure 1: Top-down view of the Danfoss 25T65 077B0033 Refrigerator Thermostat, showing the main body and coiled capillary tube.

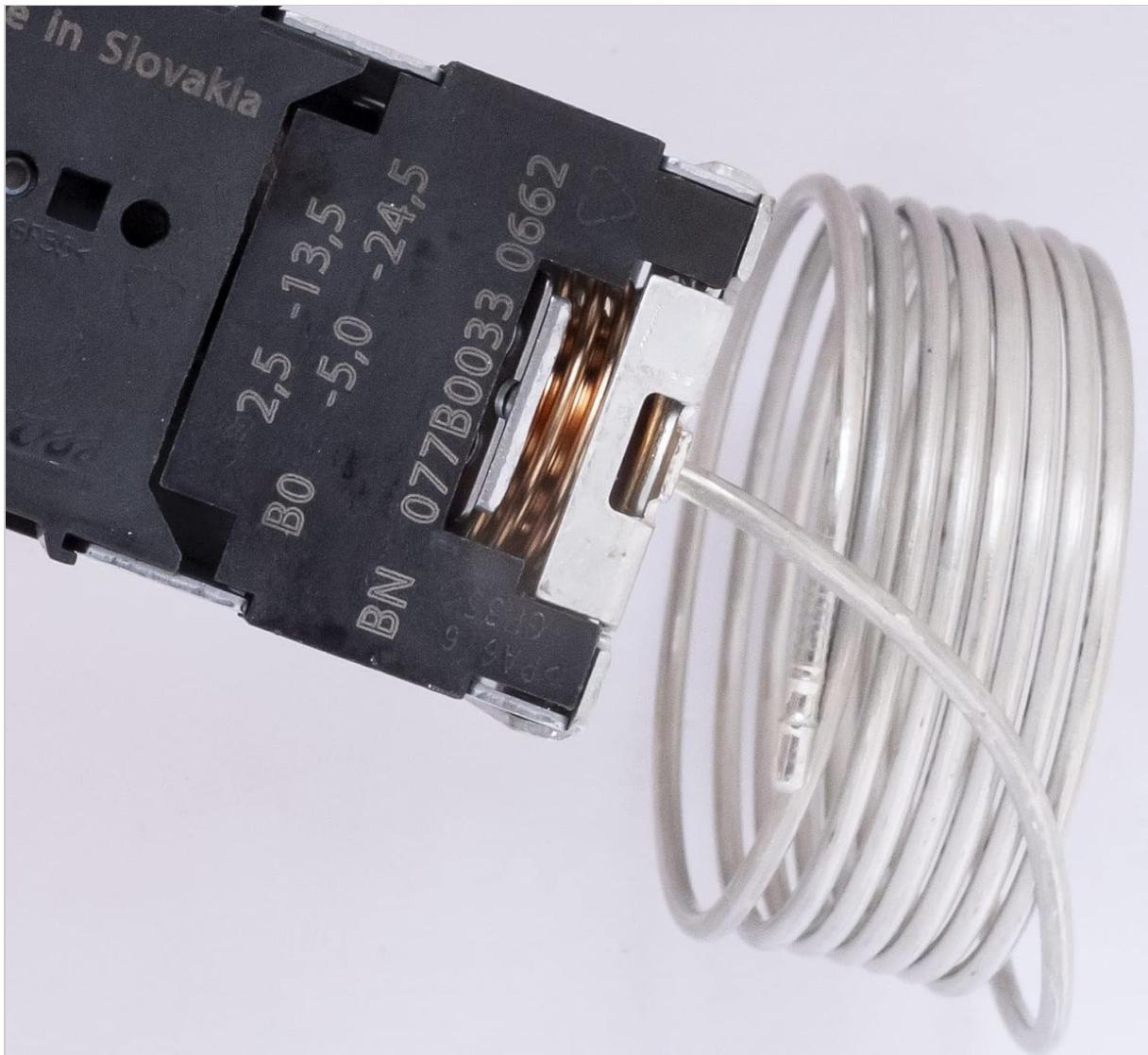


Figure 2: Close-up view of the thermostat body, showing model number BN 077B0033 0662 and temperature settings.

4. SETUP AND INSTALLATION

Installation of this thermostat typically involves replacing an existing unit. Due to the electrical and refrigeration system components involved, professional installation by a qualified technician is highly recommended.

4.1. Pre-Installation Steps

- 1. Disconnect Power:** Unplug the refrigerator from the wall outlet or turn off the circuit breaker supplying power to the appliance.
- 2. Access Thermostat:** Locate and access the existing thermostat within your refrigerator. This may require removing control panels or other components.
- 3. Document Wiring:** Carefully note or photograph the wiring connections of the old thermostat before disconnecting them. This will aid in correct re-connection.

4.2. Installation Procedure

- 1. Remove Old Thermostat:** Disconnect the wires and carefully remove the old thermostat and its capillary tube.
- 2. Install New Thermostat:** Mount the new Danfoss 25T65 077B0033 thermostat in the same location as the old one.

3. **Connect Wiring:** Connect the electrical wires to the new thermostat's terminals according to your documented wiring scheme. Ensure connections are secure.

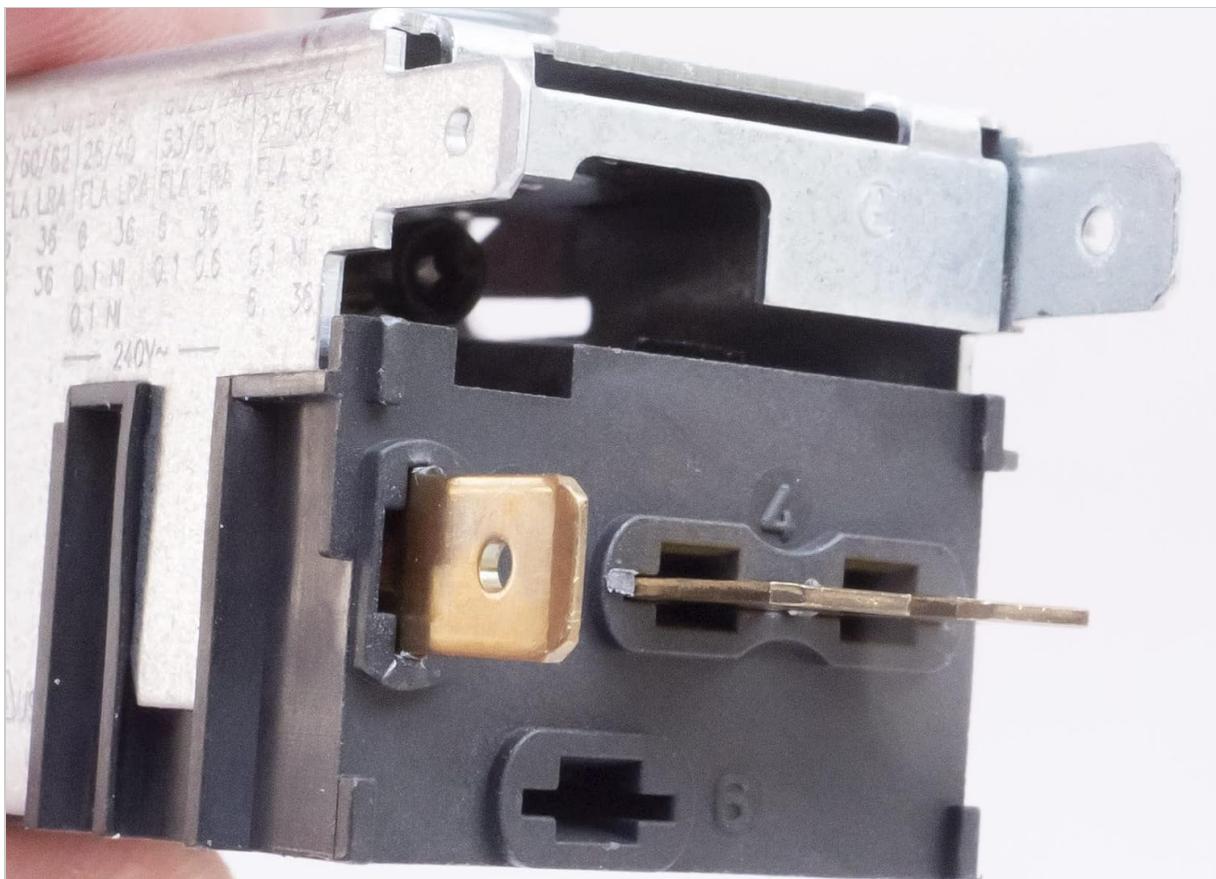


Figure 3: Close-up view of the electrical terminals on the thermostat, showing connection points for wiring.

4. **Position Capillary Tube:** Carefully route and position the capillary tube in the same manner as the original. The placement of the capillary tube is critical for accurate temperature sensing. Do not bend or kink the tube sharply.
5. **Reassemble:** Reassemble any panels or components that were removed to access the thermostat.
6. **Restore Power:** Plug the refrigerator back into the wall outlet or turn on the circuit breaker.

5. OPERATING INSTRUCTIONS

The Danfoss 25T65 077B0033 thermostat operates automatically to maintain the set temperature within your refrigerator. Once installed, the thermostat senses the internal temperature via its capillary tube and cycles the compressor on and off as needed.

5.1. Temperature Adjustment

Temperature adjustment is typically done via a control knob connected to the thermostat shaft. Rotate the knob to select the desired cooling level. Higher numbers or colder settings will result in the compressor running more frequently, leading to lower internal temperatures.

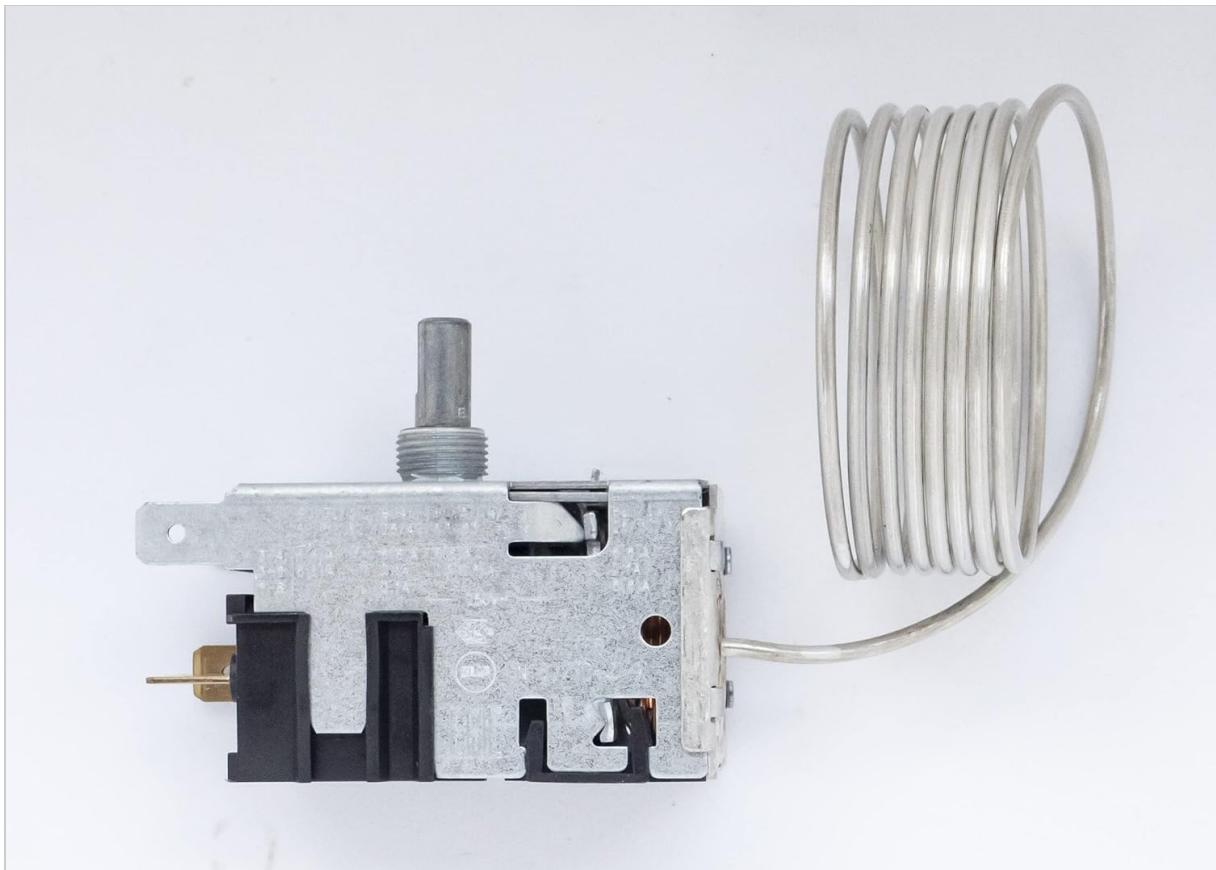


Figure 4: Side view of the thermostat, showing the shaft where a control knob would be attached for temperature adjustment.

5.2. Initial Operation

After installation and power restoration, allow the refrigerator several hours to reach the set temperature. Avoid opening the refrigerator door frequently during this initial period.

6. MAINTENANCE

The Danfoss 25T65 077B0033 thermostat is a sealed unit and requires no routine maintenance. However, ensuring the refrigerator's overall cleanliness and proper functioning of other components can contribute to the thermostat's longevity.

- Regularly clean the refrigerator interior and exterior.
- Ensure the refrigerator door seals are intact and functioning correctly to prevent warm air from entering.
- Keep the condenser coils clean to allow for efficient heat dissipation, which can impact the thermostat's performance.

7. TROUBLESHOOTING

If your refrigerator is not maintaining the correct temperature, the thermostat may be a contributing factor. Before assuming the thermostat is faulty, check other common issues.

7.1. Common Issues and Solutions

- **Refrigerator Not Cooling:**

- Check if the refrigerator is plugged in and receiving power.

- Ensure the temperature control knob is set to a cold enough setting.
- Verify that the condenser coils are clean and not obstructed.
- Check if the door seals are intact and the door is closing properly.
- If these checks do not resolve the issue, the thermostat or compressor may require professional inspection.

• **Refrigerator Too Cold (Freezing Food):**

- Adjust the temperature control knob to a warmer setting.
- Ensure the capillary tube is correctly positioned and not dislodged.
- If the issue persists, the thermostat may be faulty and require replacement.

• **Compressor Runs Constantly:**

- Check door seals for leaks.
- Ensure the refrigerator is not overloaded with warm food.
- Verify that the condenser coils are clean.
- A constantly running compressor can indicate a faulty thermostat that is not cycling off, or a problem with the refrigeration system itself.

For complex issues or if you are unsure about any troubleshooting steps, contact a qualified appliance repair technician.

8. SPECIFICATIONS

Feature	Specification
Brand	Danfoss
Model Number	077B0033 (25T65)
Type	Standard Refrigerator Thermostat
Warm Panel ON Temperature	2.5°C
Hot Blow OFF Temperature	-5.0°C
Cold Water ON Temperature	-13.5°C
Cooling Capacity OFF Temperature	-24.5°C
Capillary Pipe Length	1200 mm
Connections	0.63 x 0.8mm Connectors
Outer Material	Stainless Steel (Rostfritt stål)
Display Type	Digital (Note: This refers to the overall product description, the thermostat itself is mechanical)
Power Source	Power Powered

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Danfoss 25T65 077B0033 thermostat, please refer to the documentation provided at the time of purchase or contact your retailer. Warranty terms can vary based on region and seller.

If you require technical support or have questions not covered in this manual, please contact Danfoss customer service or a certified appliance technician. When contacting support, have your product model number (077B0033) and purchase details readily available.