

K50-L3121

Generic K50-L3121 Ice Maker Thermostat Instruction Manual

Model: K50-L3121

1. INTRODUCTION

This manual provides instructions for the installation, operation, maintenance, and troubleshooting of the Generic K50-L3121 Storage Refrigerator Temperature Limit Ice Full Thermostat. This component is designed to ensure optimal ice production and storage by accurately monitoring temperature and ice levels in compatible ice making machines.

Key Features:

- Made of high-quality materials, ensuring durability and long-lasting performance.
- Compatible with Brema CB425 and CB246 ice making machines.
- Controls the temperature and ensures the ice maker stops producing ice when the storage is full.
- Designed for easy installation and replacement.

2. SAFETY INFORMATION

- Always disconnect power to the ice maker before attempting any installation, maintenance, or repair. Failure to do so can result in electric shock or injury.
- Installation should be performed by a qualified technician if you are unsure about the process.
- Handle the thermostat carefully to avoid damaging the capillary tube. Damage to the tube can impair the thermostat's function.
- Wear appropriate personal protective equipment, such as gloves, during installation.

3. PRODUCT OVERVIEW

The K50-L3121 thermostat is a critical component for regulating the ice production cycle in compatible ice makers. It features a temperature-sensing capillary tube and electrical contacts to control the compressor and ice-making process, ensuring efficient and reliable operation.



Image 1: General view of the K50-L3121 ice maker thermostat, featuring the coiled capillary tube and the main control unit. This view highlights the overall design and primary components.



Image 2: A different perspective of the K50-L3121 thermostat, illustrating the connection points and the mounting bracket on the control unit.

4. INSTALLATION

Follow these steps carefully to install or replace the K50-L3121 thermostat.

Tools Required:

- Screwdriver set (Phillips and flathead)
- Pliers
- Multimeter (optional, for testing electrical continuity)

Installation Steps:

1. **Disconnect Power:** Ensure the ice maker is completely disconnected from its power supply before proceeding.
2. **Locate Old Thermostat:** Identify the existing thermostat within the ice maker's storage compartment or control panel.

3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old thermostat. It is recommended to take a photograph or make a diagram of the connections for reference.
4. **Remove Old Thermostat:** Unmount and remove the old thermostat. Pay close attention to how the capillary tube is routed and secured within the ice maker.
5. **Install New Thermostat:** Position the new K50-L3121 thermostat in the same location as the old one. Ensure the capillary tube is routed correctly and securely placed to accurately sense the temperature and ice levels. Avoid kinking, bending sharply, or damaging the tube.
6. **Connect Wiring:** Reconnect the electrical wiring to the new thermostat according to your reference diagram or photograph. Ensure all connections are secure.
7. **Secure Thermostat:** Securely mount the thermostat in its designated position.
8. **Test Operation:** Restore power to the ice maker and test its operation to confirm the thermostat is functioning correctly.



Image 3: Close-up view of the K50-L3121 thermostat's electrical terminals and mounting bracket, showing details of the 'Made in Slovakia' inscription and model markings.

5. OPERATION

The K50-L3121 thermostat functions by continuously monitoring the temperature within the ice storage bin and, indirectly, the presence of ice. Its primary role is to regulate the ice production cycle.

- **Temperature Control:** The thermostat activates the ice-making cycle when the temperature in the storage area rises above a predetermined set point, indicating that more ice is needed.
- **Ice Full Detection:** As ice accumulates in the storage bin, the capillary tube, which acts as a sensing element, detects the full ice level. This signals the thermostat to open its contacts, pausing the ice production cycle to prevent overfilling and potential damage.
- **Automatic Restart:** When ice levels drop or the temperature within the bin increases (due to ice melting or removal), the thermostat automatically closes its contacts, restarting the ice-making process to replenish the supply.

6. MAINTENANCE

Proper maintenance ensures the longevity and accurate operation of your K50-L3121 thermostat.

- **Regular Inspection:** Periodically inspect the thermostat and its capillary tube for any visible signs of damage, corrosion, kinks, or wear. Ensure the tube is not dislodged from its sensing position.
- **Cleaning:** Ensure the area around the thermostat's sensing element and the capillary tube is clean and free from ice buildup, debris, or foreign objects. Accumulations can interfere with accurate temperature and ice level detection.
- **Electrical Connections:** With the power disconnected, periodically check the electrical connections to the thermostat for tightness and absence of corrosion. Loose or corroded connections can lead to intermittent operation or failure.

7. TROUBLESHOOTING

If your ice maker is not functioning as expected, consult the following troubleshooting guide.

Common Issues and Solutions:

- **Ice Maker Not Producing Ice:**
 - *Check Power:* Ensure the ice maker is properly plugged in and receiving power.
 - *Thermostat Connection:* Verify that the thermostat's electrical connections are secure and not corroded.
 - *Capillary Tube:* Inspect the capillary tube for damage (kinks, breaks) or improper placement. If the tube is not sensing cold temperatures, it may not initiate the ice-making cycle.
 - *Ice Level:* Ensure the ice bin is not falsely indicating a "full" status, which would prevent ice production.
- **Ice Maker Overfilling/Not Stopping:**
 - *Capillary Tube Placement:* Ensure the capillary tube is correctly positioned to detect the ice level in the bin. If it's dislodged or obstructed, it may not signal the thermostat to stop.
 - *Thermostat Malfunction:* The thermostat itself may be faulty and not signaling the ice maker to stop production when the bin is full.
- **Inconsistent Ice Production:**
 - *Ambient Temperature Fluctuations:* Significant changes in the ambient temperature around the ice maker can affect its performance.
 - *Thermostat Calibration:* While not user-adjustable, a faulty or aging thermostat can lead to inconsistent operation. Consider replacement if other troubleshooting steps fail.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	Generic
Model Name	K50-L3121 (BK4RQ2KAZkusha)
Item Weight	50 g
Compatibility	Brema CB425, CB246 Ice Making Machines
Function	Storage Refrigerator Temperature Limit, Ice Full Thermostat
Warranty	One year



Image 4: Side view of the K50-L3121 thermostat, showing the coiled capillary tube extending from the main unit and the electrical terminals.



Image 5: Another side view of the K50-L3121 thermostat, providing a clear look at the capillary tube's attachment to the control module and its overall form factor.

9. WARRANTY AND SUPPORT

Warranty Information:

This product comes with a one-year warranty from the date of purchase, covering manufacturing defects under normal use. Please retain your proof of purchase for any warranty claims.

Customer Support:

For technical assistance, troubleshooting guidance, or warranty inquiries, please contact your retailer or the manufacturer directly. Refer to your original purchase documentation or the product packaging for specific contact details.

ASK A QUESTION ABOUT THIS MANUAL

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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