

INGQI 241854301, 5303918549

INGQI 241854301 5303918549 Evaporator Fan Motor Replacement Instruction Manual

Models: 241854301, 5303918549

Brand: INGQI

1. INTRODUCTION

This instruction manual provides essential information for the installation, operation, maintenance, and troubleshooting of the INGQI 241854301 and 5303918549 Evaporator Fan Motor Replacement. This motor is designed to circulate cold air from the evaporator coil throughout the refrigerator and freezer compartments, ensuring proper cooling.

Please read this manual thoroughly before attempting any installation or maintenance to ensure safe and correct usage.

2. SAFETY INFORMATION

WARNING: Electrical Shock Hazard

- Always disconnect power to the appliance before servicing. Failure to do so can result in serious injury or death.
- Wear appropriate personal protective equipment, such as gloves and safety glasses.
- If you are not comfortable performing electrical repairs, consult a qualified technician.
- Ensure all connections are secure and properly insulated after installation.

3. WHAT'S IN THE BOX

Your package should contain the following items:

- 1x Evaporator Fan Motor (with integrated plastic wire retainer clips and terminal connectors)

4. SPECIFICATIONS

Parameter	Value
Voltage	120 V
Frequency	60 Hz
Wattage	6 W
Amperage	0.1 A

5. COMPATIBILITY

This evaporator fan motor replacement is compatible with various refrigerator models from several brands. The primary replacement part numbers are 241854301 and 5303918549. It also replaces AP4343697, 1465278, AH2331827, EA2331827, PS2331827, 1637660, 240315801, 240315802, 240315803, 240369701, 240369702, 241537301, 5304445861, AP4700070, SM4301, AH34198, PS341983939, EA3419839. Known compatible brands and example models include:

- **Kenmore / Sears:** 253.61502405, 253.61502407, 253.61502408, 253.61502409, 253.61512405, 253.61512406, 253.61512408, 253.61512409, 253.61522011, 253.61522012, etc.
- **Electrolux Frigidaire:** CFHT1513LZ3, CFHT1513LZ4, CFHT1713LZ0, CFHT1713LZ1, CFHT1713LZ2, CFHT1713LZ3, CFHT1713LZZ, CFHT1814LZ0, CFHT1814LZ1, CFHT1814LZ3, CFHT1814LZ4, CFHT1826LP0, CFHT1826LP1, CFHT1826LP3, CFHT1826LP4, CFHT1826LP5, CFHT1826LP6, CFHT1826LP7, CFHT1842LS0, CFHT1842LS1, CFHT1842LS3, CFHT1842LS4, CFHT1842LS6, CFHT1842LS7, CFHT1842PS0, CFHT1842PS1, CFHT1842PS2, CFHT1842PS4, CFHT1843LS0, CFHT1843LS1, CFHT1843LS3, CFHT1843LS4, CFHT1843LS5, CFHT1843LS6, CFHT1843LS7, etc.
- **Kelvinator:** KATR1816MS0, KATR1816MS1, KATR1816MW0, KATR1816MW1, etc.
- **Tappan:** TRT15L2JW0, TRT15L2JW1, TRT15L2JW3, TRT15L2JW4, etc.
- **White Westinghouse:** WRT18MP5AWI, WRT18MP5AWO, WRT18MP5AWX, WRT18MP5AWY, WRT18MP6CSI, etc.

This list is not exhaustive. If your specific model is not listed, please verify compatibility using the part numbers or consult a technician.

6. SETUP AND INSTALLATION

The following steps outline a general procedure for replacing an evaporator fan motor. Specific refrigerator models may vary. Always refer to your appliance's service manual for detailed instructions.

1. **Disconnect Power:** Unplug the refrigerator from the electrical outlet or turn off the circuit breaker to the appliance. This is a critical safety step.
2. **Access Freezer Compartment:** Open the freezer door. You will typically need to remove shelves, ice maker components, and the rear panel of the freezer compartment to access the evaporator coil and fan motor.
3. **Locate the Evaporator Fan Motor:** The motor is usually mounted near the evaporator coil, often behind a protective cover.
4. **Disconnect Wiring:** Carefully disconnect the electrical connectors from the old fan motor. Note the orientation of the wires if they are not color-coded or keyed.
5. **Remove Old Motor:** Unscrew or unclip the old motor from its mounting bracket. Be careful not to damage the fan blade, which may need to be transferred to the new motor.

6. **Install New Motor:** Attach the new INGQI evaporator fan motor to the mounting bracket. Ensure it is securely fastened. If applicable, transfer the fan blade from the old motor to the shaft of the new motor, ensuring it is correctly oriented and secured.
7. **Connect Wiring:** Reconnect the electrical connectors to the new motor. Ensure all connections are firm.
8. **Reassemble:** Replace the rear panel, ice maker components, and shelves in the freezer compartment.
9. **Restore Power:** Plug the refrigerator back into the electrical outlet or turn on the circuit breaker.
10. **Test Operation:** Listen for the fan motor running and check if the refrigerator and freezer are cooling properly after a few hours.



Figure 1: Front view of the evaporator fan motor with its wiring harness and connectors.



Figure 2: Rear view of the motor, displaying technical specifications and model numbers.



Figure 3: Side perspective of the motor, highlighting the shaft where the fan blade attaches.



Figure 4: Another view of the motor, showing the complete wiring assembly including a ground wire.

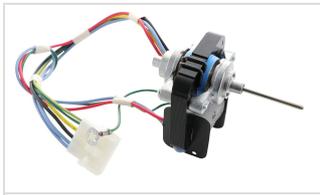


Figure 5: Detailed view of the motor, emphasizing its mounting points and overall construction.

7. OPERATING PRINCIPLES

The evaporator fan motor is a crucial component in a refrigerator's cooling system. Located in the freezer compartment, its primary function is to draw air over the evaporator coils. These coils contain refrigerant that absorbs heat from the freezer and refrigerator compartments, thus cooling the air. The fan then circulates this cooled air throughout both compartments, maintaining consistent temperatures and preventing frost buildup on the coils. A properly functioning evaporator fan ensures efficient cooling and optimal performance of your appliance.

8. MAINTENANCE

To ensure the longevity and efficient operation of your refrigerator and the new evaporator fan motor, consider the following maintenance tips:

- **Keep Coils Clean:** Periodically clean the condenser coils (usually located at the back or underneath the refrigerator) to improve efficiency and reduce strain on the cooling system.
- **Check for Ice Buildup:** If you notice excessive ice buildup on the evaporator coils or around the fan, it may indicate a defrost system issue or a problem with the freezer door seal. Address these issues promptly to prevent damage to the fan motor.
- **Listen for Unusual Noises:** A healthy fan motor operates quietly. If you hear grinding, squealing, or excessive noise, it might indicate a failing motor or an obstruction.

9. TROUBLESHOOTING

If your refrigerator or freezer is not cooling correctly, or if you suspect an issue with the evaporator fan motor, consider these common problems and solutions:

- **Refrigerator/Freezer Temperature Rises:** This is a primary symptom of a failing evaporator fan motor. If the motor is not circulating cold air, temperatures will increase.
- **Coils are Frozen:** If the evaporator coils are completely covered in ice, the fan cannot effectively move air. This could be due to a faulty defrost system or a non-functioning fan.
- **Fan Not Running:** If the fan motor does not spin when the freezer door switch is engaged (or when the door is closed), it may be faulty.
- **Loud Noises from Freezer:** Grinding, buzzing, or squealing sounds from the freezer compartment can indicate worn bearings in the fan motor or an obstruction hitting the fan blade.

If troubleshooting steps do not resolve the issue, it may be necessary to replace the motor or consult a professional technician.

10. WARRANTY AND SUPPORT

This INGQI evaporator fan motor replacement comes with a satisfaction guarantee warranty:

- **Refund Period:** 30 days from the date of purchase.
- **Replacement Period:** 3 months from the date of purchase.

For any problems, questions, or support needs, please contact INGQI customer service. We are committed to resolving any issues you may encounter as quickly as possible.

11. DISCLAIMER

This product is an aftermarket replacement part. It is not manufactured by the original equipment manufacturer (OEM) but is designed to be 100% functional and compatible with the specified models. Always ensure proper installation and adhere to all safety guidelines.