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LG FMA088NBMA

LG FMA088NBMA Compressor Instruction Manual

FOR REFRIGERATORS AND FREEZERS (MODELS TCA37591320, TCA37591304)

1. Introduction

This manual provides essential information for the proper handling, installation, and maintenance of the LG FMA088NBMA compressor. This component is designed for use in compatible LG refrigerator and freezer models, specifically TCA37591320 and TCA37591304. Adherence to these instructions is crucial for ensuring the safe and efficient operation of your appliance.

Important Safety Notice: Installation and service of refrigeration compressors should only be performed by qualified and certified technicians. Improper installation or handling can lead to serious injury, property damage, or appliance malfunction.

2. Product Overview

The LG FMA088NBMA is a hermetic compressor, a critical component in the refrigeration cycle of your appliance. Its primary function is to compress refrigerant gas, increasing its pressure and temperature, which is essential for heat transfer and cooling. This compressor is a direct replacement part for specific LG refrigerator and freezer models.



An image showing the LG FMA088NBMA compressor, a black, oval-shaped unit with various connection ports and mounting brackets, designed for refrigeration systems.

3. Safety Information

- **Professional Installation Required:** Due to the complexity of refrigeration systems and the handling of refrigerants, installation must be performed by a certified HVAC/R technician.
- **Electrical Safety:** Ensure the appliance is disconnected from the power supply before any service or installation work begins. Follow all local electrical codes and safety standards.
- **Refrigerant Handling:** Refrigerants must be handled with care. They are under pressure and can cause frostbite or other injuries. Proper recovery and charging procedures are essential to prevent environmental harm.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and protective clothing, when working with refrigeration components.
- Ventilation: Ensure adequate ventilation when working with refrigerants, as some can displace oxygen.

4. Installation (Setup)

The following steps outline a general installation process. Specific procedures may vary based on the

appliance model and system design. Always refer to the appliance's service manual and consult with a qualified technician.

- 1. **Disconnect Power:** Unplug the refrigerator or freezer from the electrical outlet.
- 2. **Access Compressor:** Locate and access the compressor compartment, typically at the rear or bottom of the appliance.
- 3. **Refrigerant Recovery:** A certified technician must safely recover the existing refrigerant from the system using appropriate equipment.
- 4. **Disconnect Old Compressor:** Disconnect electrical wiring and refrigerant lines from the old compressor.
- 5. **Remove Old Compressor:** Unmount and remove the faulty compressor.
- 6. Install New Compressor: Mount the new LG FMA088NBMA compressor securely in place.
- 7. **Connect Refrigerant Lines:** Braze or connect the refrigerant lines to the new compressor, ensuring leak-free connections.
- 8. Connect Electrical Wiring: Reconnect the electrical wiring according to the appliance's wiring diagram.
- 9. Evacuate System: Evacuate the refrigeration system to remove non-condensable gases and moisture.
- 10. **Recharge Refrigerant:** Charge the system with the correct type and amount of refrigerant as specified by the appliance manufacturer.
- 11. Leak Check: Perform a thorough leak check on all connections.
- 12. **Test Operation:** Restore power and test the appliance's operation, monitoring pressures and temperatures.

5. Operation

The LG FMA088NBMA compressor operates automatically as part of the refrigerator or freezer's cooling system. It is controlled by the appliance's thermostat and control board, cycling on and off to maintain the desired internal temperature. No direct user interaction is required for compressor operation.

- Ensure the appliance is plugged into a properly grounded electrical outlet.
- Set the thermostat to the recommended temperature for your specific refrigerator or freezer model.
- Allow several hours for the appliance to reach its stable operating temperature after initial setup or power restoration.

6. Maintenance

While the compressor itself is a sealed unit and generally requires no direct maintenance, regular maintenance of the overall refrigeration system can prolong its lifespan and ensure efficient operation.

- Clean Condenser Coils: Periodically clean the condenser coils, typically located at the back or bottom of the appliance. Dust and debris can accumulate, reducing heat transfer efficiency and making the compressor work harder.
- Check Door Seals: Ensure refrigerator and freezer door seals are intact and sealing properly to prevent cold air loss, which can overwork the compressor.
- Monitor Performance: Pay attention to unusual noises, excessive running times, or inadequate
 cooling, which could indicate a system issue.
- **Professional Inspection:** Consider periodic professional inspections of your refrigeration system, especially if you notice any performance degradation.

7. Troubleshooting

If your refrigerator or freezer is experiencing issues, the problem may not always be the compressor. Here are some common symptoms and potential causes. For any complex issues, contact a qualified service technician.

Symptom	Possible Cause	Action
Appliance not cooling	Power supply issue, thermostat setting, dirty condenser coils, refrigerant leak, faulty compressor.	Check power, adjust thermostat, clean coils. If issues persist, contact technician.
Compressor runs continuously	Door seal leak, overfilling, high ambient temperature, dirty condenser coils, low refrigerant.	Check door seals, ensure proper ventilation, clean coils. Consult technician for refrigerant issues.
Unusual noises from compressor area	Loose mounting, internal compressor issue, fan motor issue.	Ensure compressor is securely mounted. If noise persists, professional diagnosis is needed.
Compressor not starting	Electrical issue, faulty start relay, control board issue, compressor failure.	Verify power. This requires professional electrical and component testing.

8. Specifications

• Manufacturer: LG

• Compressor Model Number: FMA088NBMA

• Compatible Appliance Models: TCA37591320, TCA37591304

• Product Weight: 7.61 Kilograms

• ASIN: B0F5NLDW89

• First Available Date: 1 February 2024

9. Warranty and Support

For information regarding the warranty of your LG FMA088NBMA compressor or for technical support, please refer to the original purchase documentation or contact LG customer service directly. Warranty terms may vary based on region and purchase conditions.

LG Customer Support: For assistance, please visit the official LG website or contact their customer service line in your region. You may also refer to the seller for specific product support.