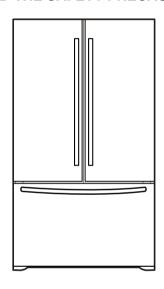


REFRIGERATOR SERVICE MANUAL

CAUTION
BEFORE SERVICING THE UNIT,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



MODELS:

LFC23760**

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SAFETY PRECAUTIONS

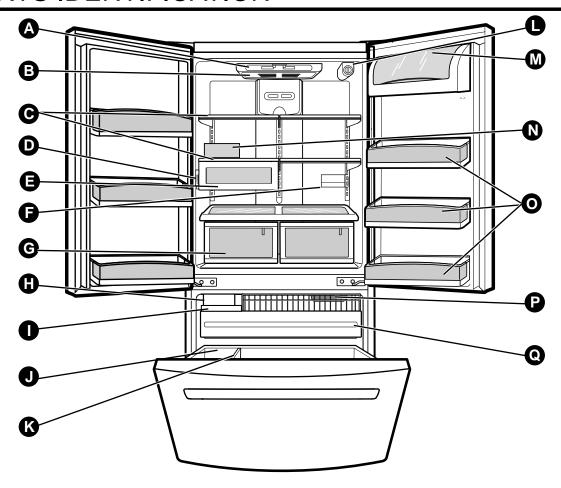
Please read the following instructions before servicing your refrigerator.

- 1. Check the refrigerator for current leakage.
- 2. To prevent electric shock, unplug before servicing.
- 3. Always check line voltage and amperage.
- 4. Use standard electrical components.5. Dont't touch metal products in the freezer with wet hands. This may cause frostbite.
- 6. Prevent water from spiling on to electric elements or the machine parts.
- 7. Before tilting the refrigerator, remove all materials drom on or in the refrigerator.
- 8. When servicing the evaporator, wear gloves to prevent injuries from the sharp evaporator fins.
- 9. Service on the refrigerator should be performed by a Qualified technician Sealed system repair must be Performed by a CFC certified technician.

1. SPECIFICATIONS

SPECI	MODELS	LFC23760**
0, 10,	CAPACITY litre;(F/R/T)	197.83/436.93/634.76
URES	DIMENSIONS in;(W*H*D)	32 7/8*69*34
GENERAL FEATURES	WEIGHT kg;	140
NER	HANDLE TYPE	Vista-Handle
GE	REVERSIBLE DOOR	NO
	DOOR FINISH	STAINLESS
	REFRIGERANT/gr	R134a 120±3
	ICE TRAY	lce bank (1ea)
FREEZER	SHELF	NO
FR	BASKET DOOR	NO
	LAMP TRAY MEAT	YES (1) 40W/azul YES
	SHELF	4Fix
OR	MAGIC CRISPER LAMP	YES YES (2) 40W/azul
RAI	GUIDE BOTTLE	YES (2)
IGE	DOOR COOOLING	NO
REFRIGERATOR	TRAY VEGETABLE	YES (AUTO CLOSE)
	BASKET DOOR	3LEFT + 3RIGHT

2. PARTS IDENTIFICATION



Use this section to become more familiar with the parts and features.

NOTE: This guide covers several different models. The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.

- A Digital Sensor Control*
- **B** Refrigerator Light
- **C** Shelves
- Temperature Control*
- Chef Fresh / Snack Pan
- Can Dispenser*
- Optibin Crisper
 Keeps fruits and vegetable fresh and crisper
- (H) Customcube Icemaker
- Ice Bin
- Durabase
- K Divider

- Filter (Inside)*
- M Dairy Bin
- N Egg Box*
- Refrigerator Door Rack
- Preezer Light
- **Q** Pull out Drawer

*on some models

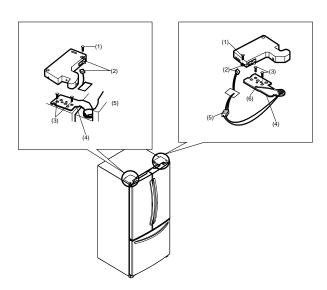
3. DISASSEMBLY

3-1 DOOR ► Left Door

- Loosen the cover screw (1).
- Disconnect door switch wire (2).
- · Loosen hinge bolts (3).
- Lift off the top hinge (4).
- Place the door on a non-scratching surface with the inside up.

► Right Door

- Loosen the cover screw (1).
- Disconnect door switch wire (2).
- Disconnect wire harness (5).
- Loosen hinge bolts (3).
- Loosen ground screw (6).
- Lift off the top hinge (4).
- Place the door on a non-scratching surface with the inside up.



Door Gasket Removal

1. Remove door frame cover

Starting at top of cover and working down, snap cover out and away from door.

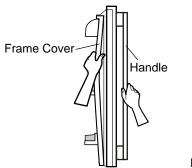
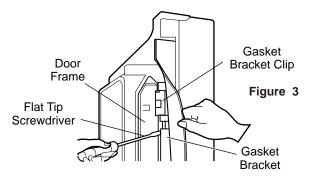


Figure 2

2. Remove gasket bracket clips

There are two clips on each door. Start bracket removal near one of the middle clips.

- Pull gasket back to expose gasket bracket clip and door frame.
- Insert a flat tip screwdriver into seam between gasket bracket and door frame and pry back until clips snaps out.
- Continue prying back along seam until all clips snap out.



3. Remove gasket

Pull gasket free from gasket channel on the three remaining sides of door.

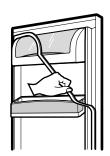


Figure 4

Door Gasket Replacement

1. Insert gasket bracket clips

- 1) Insert gasket bracket edge beneath door frame edge.
- 2) Turn upper gasket bracket spring so that both spring ends are in the door channel.
- 3) Push in clip until you hear it snap securely into place.

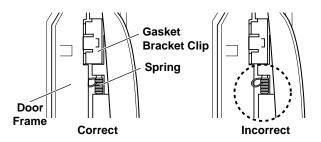


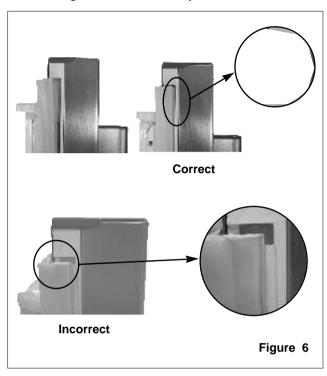
Figure 5

4) Push in remaining two clips until you hear each snap securely into place.

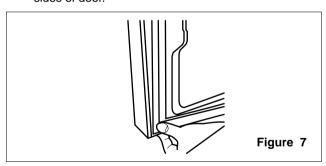
Note: Make sure that no part of gasket bracket edge protrudes from beneath door frame edge.

2. Insert gasket into channel

Snap gasket assembly into the door bracket.
 Inserting the Gasket Assembly into the Bracket Door>

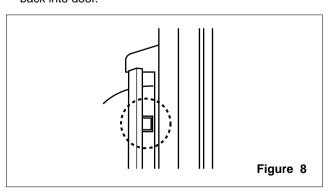


2) Press gasket into channels on the three remaining sides of door.



3. Replace door frame cover

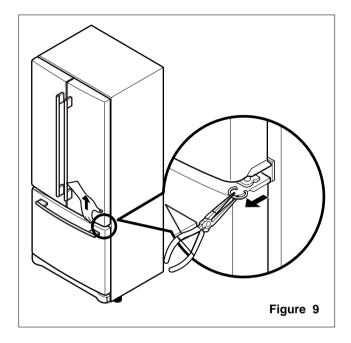
Starting at top of cover and working down, snap cover back into door.



3-2 DOOR ALIGNMENT

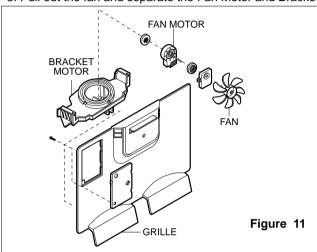
If the space between your doors is uneven, follow the instructions below to align the doors:

- 1. With one hand, lift up the door you want to raise at middle hinge.
- 2. With other hand, use pliers to insert snap ring as shown.
- 3. Insert additional snap rings until the doors are aligned. (Three snap rings are provided with unit.)



3-3 FAN AND FAN MOTOR

- 1. Remove the freezer shelf. (If your refrigerator has an icemaker, remove the icemaker first)
- 2. Remove the plastic guide for slides on left side by unscrewing phillips head screws.
- Remove the grille by removing one screw and pulling the grille forward.
- 4. Remove the Fan Motor assembly by loosening 2 screws and disassembling the shroud.
- 5. Pull out the fan and separate the Fan Motor and Bracket.



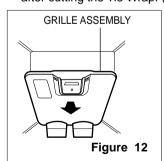
3-4 DEFROST CONTROL ASSEMBLY

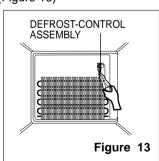
Defrost Control assembly consists of Defrost Sensor and FUSE–M.

The Defrost Sensor works to defrost automatically. It is attached to the metal side of the Evaporator and senses its temperature. At 72°C, it turns the Defrost Heater off.

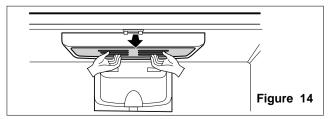
Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

- 1. Pull out the grille assembly. (Figure 12)
- Separate the connector with the Defrost Control assembly and replace the Defrost Control assembly after cutting the Tie Wrap. (Figure 13)



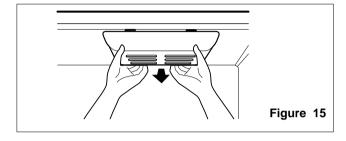


3-5 LAMP



3-5-1 Refrigerator Compartment Lamp

- 1. Unplug the power cord from the outlet.
- 2. Remove refrigerator shelves.
- Release the hooks on both ends of the lamp shield and pull the shield downward to remove it.
- 4. Turn the lamp counterclockwise.
- Assembly is the reverse of disassembly. Replacement bulb must be the same specification as the original (Max. 60 W2EA).

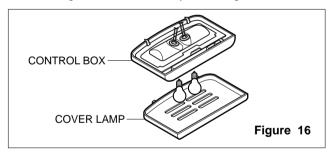


3-5-2 Freezer Compartment Lamp

- 1. Unplug refrigerator or disconnect power.
- 2. Reach behind light shield to remove bulb.
- 3. Replace bulb with a 60-watt appliance bulb.
- 4. Plug in refrigerator or reconnect power.

3-6 CONTROL BOX-REFRIGERATOR

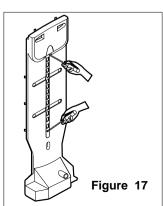
1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.



- Remove the Refrigerator Control Box by pulling it downward.
- 3. Disconnect the lead wire on the right position and separate the lamp sockets.

3-7 MULTI DUCT

- Remove the upper and lower Caps by using a flat screwdriver, and remove 2 screws. (Figure 17)
- 2. Disconnect the lead wire on the bottom position.



4. ADJUSTMENT

4-1 COMPRESSOR

4-1-1 Role

The compressor intakes low temperature and low pressure gas from the evaporator of the refrigerator and compresses this gas to high-temperature and high-pressure gas. It then delivers the gas to the condenser.

4-1-2 Composition

The compressor includes overload protection. The PTC starter and OLP (overload protector) are attached to the outside of the compressor. Since the compressor is manufactured to tolerances of 1 micron and is hermetically sealed in a dust and moisture-free environment, use extreme caution when repairing it.

4-1-3 Note for Usage

- (1) Be careful not to allow over-voltage and over-current.
- (2) If compressor is dropped or handled carelessly, poor operation and noise may result.
- (3) Use proper electric components appropriate to the Particular Compressor in your product.
- (4) Keep Compressor dry.
 If the Compressor gets wet (in the rain or a damp environment) and rust forms in the pin of the Hermetic Terminal, poor operation and contact may result.
- (5) When replacing the Compressor, be careful that dust, humidity, and soldering flux don't contaminate the inside of the compressor. Contamination in the cylinder may cause noise, improper operation or even cause it to lock up.

4-2 PTC-STARTER

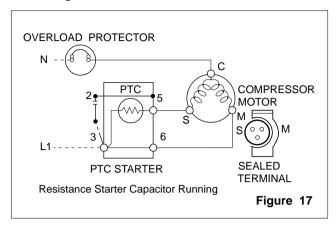
4-2-1 Composition of PTC-Starter

- PTC (Positive Temperature Coefficient) is a no-contact semiconductor starting device which uses ceramic material consisting of BaTiO3.
- (2) The higher the temperature is, the higher the resistance value. These features are used as a starting device for the Motor.

4-2-2 Role of PTC-Starter

- (1) The PTC is attached to the Sealed Compressor and is used for starting the Motor.
- (2) The compressor is a single-phase induction motor. Durign the starting operation, the PTC allows current flow to both the start winding and main winding.

4-2-3 PTC-Applied Circuit Diagram •Starting Method for the Motor



4-2-4 Motor Restarting and PTC Cooling

- (1) It requires approximately 5 minutes for the pressure to equalize before the compressor can restart.
- (2) The PTC device generates heat during operation. Therefore, it must be allowed to cool before the compressor can restart.

4-2-5 Relation of PTC-Starter and OLP

- (1) If the compressor attempts to restart before the PTC device is cooled, the PTC device will allow current to flow only to the main winding.
- (2) The OLP will open because of the over current condition. This same process will continue (3 to 5 times) when the compressor attempts to restart until the PTC device has cooled. The correct OLP must be properly attached to prevent damage to the compressor.

Parts may appear physically identical but could have different electrical ratings. Replace parts by part number and model number. Using an incorrect part could result in damage to the product, fire, injury, or possibly death.

4-2-6 Note for Using the PTC-Starter

- (1) Be careful not to allow over-voltage and over-current.
- (2) Do not drop or handle carelessly.
- (3) Keep away from any liquid.
 If liquid such as oil or water enters the PTC,
 PTC materials may fail due to breakdown of their insulating capabilities.
- (4) If the exterior of the PTC is damaged, the resistance value may be altered. This can cause damage to the compressor and result in a no-start or hard-to-start condition.
- (5) Always use the PTC designed for the compressor and make sure it is properly attached to the compressor. Parts may appear physically identical but could have different electrical ratings. Replace parts by part number and model number. Using an incorrect part could result in damage to the product, fire, injury, or possibly death.

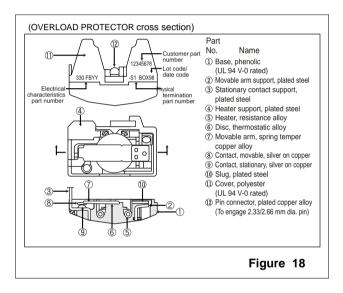
4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

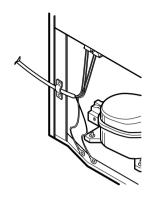
- (1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.
- (2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP, and the OLP protects the Motor by cutting off the current flowing to the Compressor Motor.

4-3-2 Role of the OLP

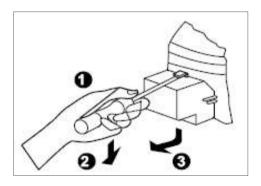
- (1) The OLP is attached to the Sealed Compressor used for the Refrigerator. It prevents the Motor Coil from being started in the Compressor.
- (2) For normal operation of the OLP, do not turn the Adjust Screw of the OLP in any way.



4-4 TO REMOVE THE COVER PTC

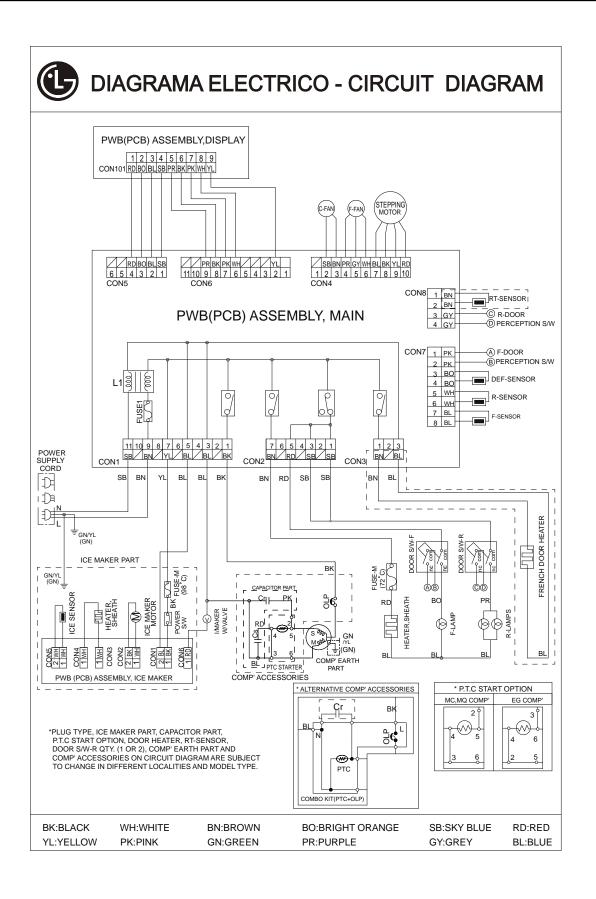


- 1) Remove the Cover Back M/C.
- (2) Disconnect two housing upper side of comp connected in.
- (3) Loosen two screws on comp base.



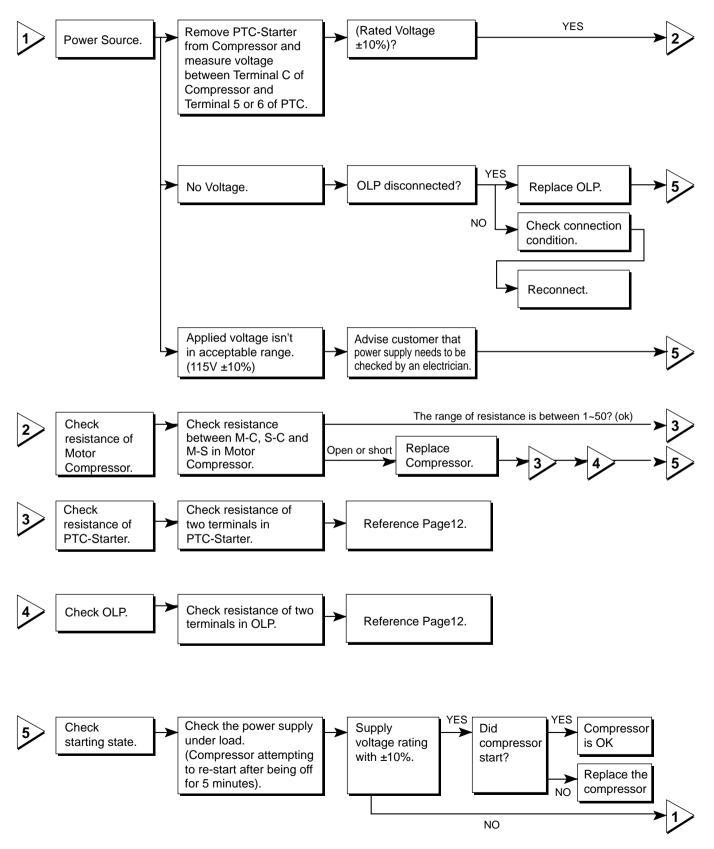
- (4) Use a L-shaped flap tool to pry off the cover.
- (5) Assembly in reverse order of disassembly.

5. CIRCUIT DIAGRAM

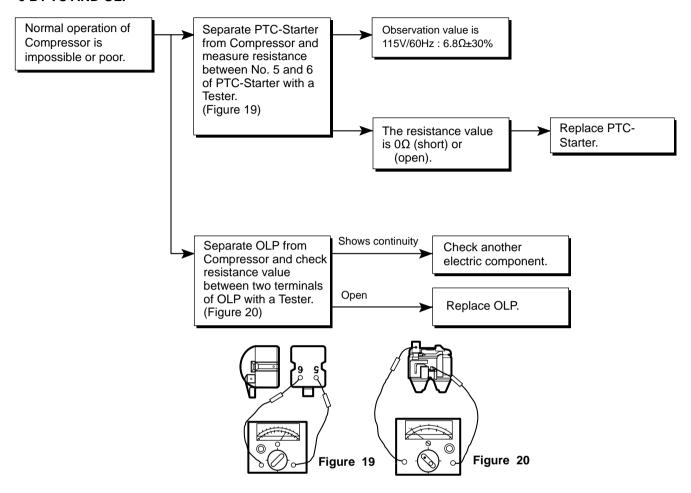


6. TROUBLESHOOTING

6-1 COMPRESSOR AND ELECTRIC COMPONENTS

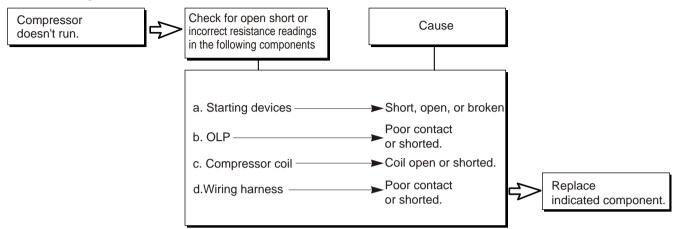


6-2 PTC AND OLP

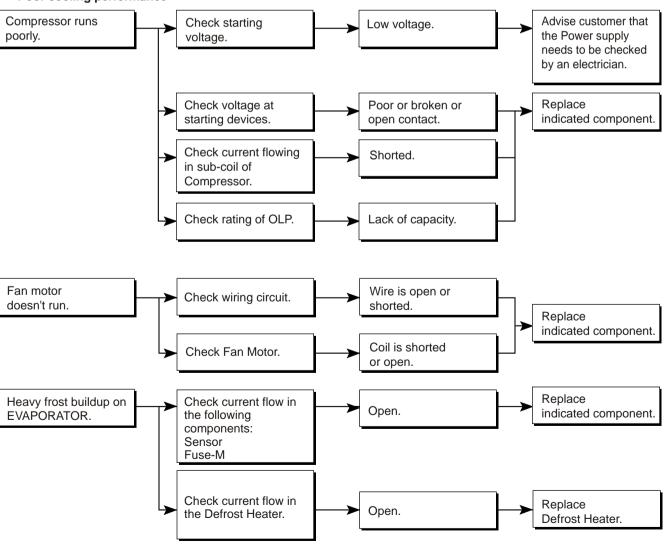


6-3 OTHER ELECTRICAL COMPONENTS

· Not cooling at all



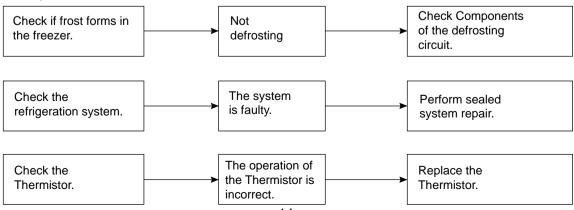
· Poor cooling performance



6-4 SERVICE DIAGNOSIS CHART

COMPLAINT	POINTS TO BE CHECKED	REMEDY
No Cooling.	 Is the power cord unplugged from the outlet? Check if the power switch is set to OFF. Check if the fuse of the power switch is shorted. Measure the voltage of the power outlet. 	 Plug into the outlet. Set the switch to ON. Replace the fuse. If the voltage is low, correct the wiring.
Cools poorly.	 Check if the unit is placed too close to the wall. Check if the unit is placed too close to the stove, gas cooker, or in direct sunlight. Is the ambient temperature too high or the room door closed? Check if food put in the refrigerator is hot. Did you open the door of the unit too often or check if the door is sealed properly? Check if the Control is set to Warm position. 	 Place the unit about 4 inches (10 cm) from the wall. Place the unit away from these heat sources. Lower the ambient temperature. Put in foods after they have cooled down. Don't open the door too often and close it firmly. Set the control to Recommended position.
Food in the Refrigerator is frozen.	 Is food placed in the cooling air outlet? Check if the control is set to colder position. Is the ambient temperature below 5°C? 	 Place foods in the high-temperature section. (front part) Set the control to Recommended position. Set the control to Warm position.
Condensation or ice forms inside the unit.	 Is liquid food sealed? Check if food put in the refrigerator is hot. Did you open the door of the unit too often or check if the door is sealed properly? 	 Seal liquid foods with wrap. Put in foods after they have cooled down. Don't open the door too often and close it firmly.
Condensation forms in the Exterior Case.	 Check if the ambient temperature and humidity of the surrounding air are high. Is there a gap in the door gasket? 	Wipe moisture with a dry cloth. It will disappear in low temperature and humidity. Fill up the gap.
There is abnormal noise.	 Is the unit positioned in a firm and even place? Are any unnecessary objects placed in the back side of the unit? Check if the Drip Tray is not firmly fixed. Check if the cover of the compressor enclosure in the lower front side is taken out. 	 Adjust the Leveling Screw, and position the refrigerator in a firm place. Remove the objects. Fix the Drip Tray firmly in the original position. Place the cover in its original position.
Door does not close well.	 Check if the door gasket is dirty with an item like juice. Is the refrigerator level? Is there too much food in the refrigerator? 	 Clean the door gasket. Position in a firm place and level the Leveling Screw. Make sure food stored in shelves does not prevent the door from closing.
Ice and foods smell unpleasant.	 Check if the inside of the unit is dirty. Are foods with a strong odor unwrapped? The unit smells of plastic. 	 Clean the inside of the unit. Wrap foods that have a strong odor. New products smell of plastic, but this will go away after 1-2 weeks.

•Other possible problems:



6-5 REFRIGERATION CYCLE

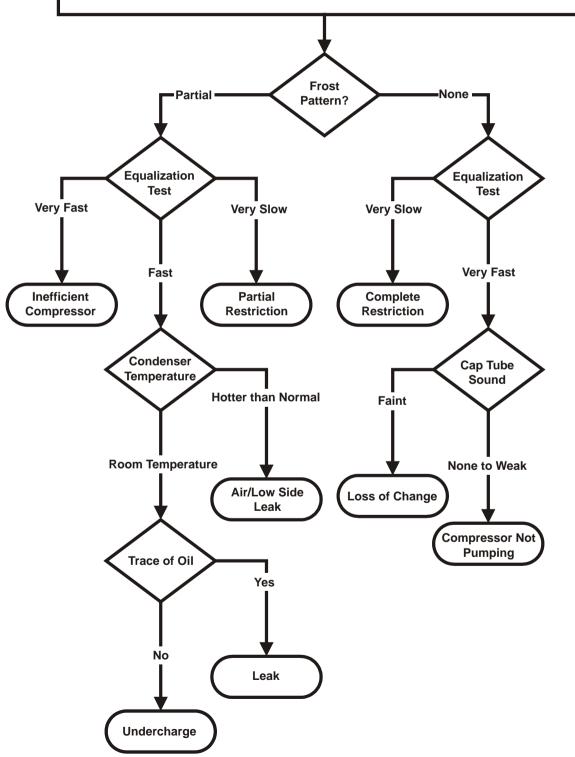
• Troubleshooting Chart

	CAUSE	STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAKAGE	LEAKAGE compartment and Refrigerator don't		Low flowing sound of Refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	 Refrigerant level is low due to a leak. Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
^GE	COMPLETE LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	 No discharging of Refrigerant. Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
CLOGGEDBYDUS			Flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	Normal discharging of the refrigerant. The capillary tube is faulty.
BYDUST	WHOLE CLOG	Freezer compartment and Refrigerator don't coo	Flowing sound of refrigerant is not heard and frost isn't . formed.	Equal to ambient temperature.	Normal discharging of the Refrigerant.
	MOISTURE CLOG	Cooling operation stops periodically.	Flowing sound of refrigerant is not heard and frost melts.	Lower than ambient temperature.	Cooling operation restarts when heating the inlet of the capillary tube.
DEFECT	COMP- Freezer and Log RESSION Refrigerator re don't cool.		Low flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	Low pressure at high side of compressor due to low refrigerant level.
CTIVE	NO COMP- RESSION	No compressing operation.	Flowing sound of refrigerant is not heard and there is no frost.	Equal to ambient temperature.	No pressure in the high pressure part of the compressor.

6-5-1 SEALED SYSTEM DIAGNOSIS

"Not Cooling" Complaint

All components operating, No airflow problems, Not frosted up as a defrost problem problem has been isolated to sealed system area

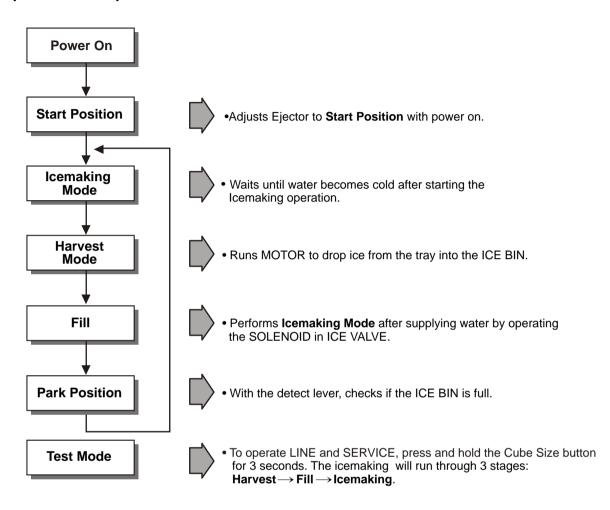


(The equalization test is trying to restart a compressor using a start kit after it has been operating.)

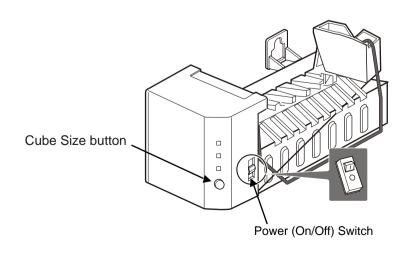
7. OPERATION PRINCIPLE AND REPAIR METHOD OF ICEMAKER

7-1 OPERATION PRINCIPLE

7-1-1 Operation Principle of Icemaker



- 1. Turning the Icemaker stop switch off (O) stops the icemaking function.
- 2. Setting the Icemaker switch to OFF and then turning it back on will reset the icemaker control.



7-2 ICE MAKER FUNCTIONS

7-2-1 Ice Making Mode

- 1. Icemaking refers to the freezing of supplied water in the ice trays. Complete freezing is assured by measuring the temperature of the Tray with icemaking SENSOR.
- 2. Icemaking starts after completion of the water fill operation.
- 3. The icemaking function is completed when the sensor reaches -7°C, 60 to 240 minutes after starting.

NOTE: After icemaker power is ON, the icemaker heater will be on for test for 9 sec.

7-2-2 Harvest Mode

- 1. Harvest (Ice removing) refers to the operation of dropping ices into the ice bin from the tray when icemaking has completed.
- 2. Harvest mode:
 - (1) The Heater is ON for 30 seconds, then the motor starts.
 - (2) Harvest mode is completed if it reaches start position again while Heater & Motor are on at the same time.
 - A. ice bin is full: The EJECTOR stops (heater off).
 - B. ice bin is not full: The EJECTOR rotates twice to open for ice.

NOTE: If the EJECTOR does not rotate once within 5 minutes in status (2), separate heater control mode starts operating to prevent the EJECTOR from being constrained. (It is recommended that the user open for ice to return to normal mode.)

7-2-3 Fill/Park Position

- 1. Once a normal harvest mode has been completed, the water solenoid will be activated.
- 2. The amount of water is adjusted by pressing the fill key repeatedly. This changes the time allowed for fill as illustrated in the table below.

Water supply amount table

STAGE	TIME TO SUPPLY	INDICATIONS	REMARKS
1	6 sec.		
2	7 sec.		The water amount will vary depending on the water control switch setting, as well as the water pressure of the connected water line.
3	8 sec.		

7-2-5 Function TEST

- 1. This is a compulsory operation for test, service, cleaning, etc. It is operated by pressing and holding the Cube Size button for 3 seconds.
- 2. The test works only in the Icemaking Mode. It cannot be entered from the Harvest or Fill mode. (If there is an ERROR, it can only be checked in the TEST mode.)
- 3. **Caution!** If the test is performed before water in the icemaker is frozen, the ejector will pass through the water. When the fill mode begins (Stage 4), unless the water supply has been shut off, added water will overflow into the ice bin. If the control Doesn't operate normally in the TEST mode, check and repair as needed.
- 4. After water is supplied, the normal CYCLE is followed: icemaking ⇒ Harvest ⇒ Fill ⇒ Park Position.
- 5. Five seconds after Stage 5 is completed, the icemaker returns to MICOM control. The time needed to supply water resets to the pre- test setting.

Diagnosis TABLE

STAGE	ITEMS	INDICATOR *	REMARKS
1	HEATER		Five seconds after heater starts, heater will go off if temperature recorded by sensor is 10°C (50°F)or lever is in up position.
2	MOTOR		Five seconds after heater starts, you can confirm that motor is moving.
3	HALL IC (TRAY)		You can confirm Hall IC detection of position.
4	SOLENOID VALVE		Two seconds after detection of initial position, you can confirm that valve is on.
5	HALL IC (LEVER)		You can check when the Hall IC is sensing a full ice condition. (If there is a water fill error, the fifth LED is not on.)
6	Reset	Return to Status prior to TEST MODE	Five seconds after fifth stage is completed, the icemaker resets to initial status.

7-3 DEFECT DIAGNOSIS FUNCTION

7-3-1 ERROR CODES shown on Ice Maker water supply control panel

NO	DIVISION	INDICATOR	PROBLEM	REMARKS
1	Normal	Note fill times (see previous page)	None	Display switch operates properly
2	Icemaking Sensor malfunction		Open or shorted wire or sensor	Make sure that the wire on each sensor is connected.
3	Icemaker Kit malfunction		Ejector blades have not reached the park position after 18 minutes from start of harvest mode	Check HALL IC/MOTOR/ HEATER/RELAY

 $[\]star$ ERROR indicators in table can be checked only in TEST mode.

8. DESCRIPTION OF FUNCTION & CIRCUIT OF MICOM

8-1 FUNCTION

8-1-1 Function

- 1. When the appliance is plugged in, it is set to "4" for Refrigerator and "4" for freezer.

 You can adjust the Refrigerator and the Freezer control temperature by pressing the ADJUST button.
- 2. When the power is initially applied or restored after a power failure, it is automatically set to "4" & "4".



8-1-2 Control of freezer fan motor

- 1. Freezer fan motor has high and standard RPMs.
- 2. High RPM is used when electricity is first on, for ICE PLUS, and when refrigerator is overloaded. But standard RPM is used for general purposes.
- 3. To improve cooling speed and load corresponding speed, the RPM of freezer fan motor shall change from normal speed to high speed.
- 4. High speed (2600RPM): Initial power on or load corresponding operation, ICE PLUS. Normal speed (2300 RPM): general working conditions.
- 5. Fan motor stops when refrigerator door opens.
- 6. Fan motor stops when freezer door opens (only if COMP is OFF)

8-1-3 ICE PLUS

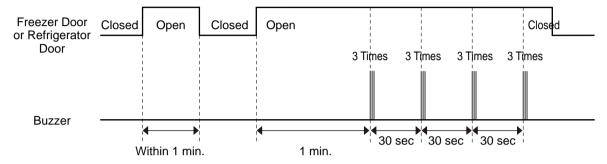
- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
- 3. If there is a power cut and the refrigerator is power on again, ICE PLUS function will be canceled.
- 4.To activate these function you need to press the ICE PLUS key and the LED will turn ON. This function will remain activated for 24 hrs. The first three hours the compressor and ICE PLUS will be ON. The next 21hours the freezer will be controlled at the lowest temperature. After 24 hours or if the ICE PLUS key is pressed again, the freezer will return to its previous temperature.
- 5. For the first three hours notice the following cases:
 - (1) Compressor and freezer fan(HIGH RPM) continuously operate for three hours.
 - (2) If defrost starts during ICE PLUS, ICE PLUS operates for the rest of time after defrost is completed, when ICE PLUS operation time is less than 90 minutes. If ICE PLUS operates for more than 90minutes, the ICE PLUS will operate for two hours after defrost is completed.
 - (3) If ICE PLUS is pressed during defrost, ICE PLUS LED is on but this function will start seven minutes after defrost is completed and it shall operate for three hours.
 - (4) If ICE PLUS is selected within seven minutes after compressor has stopped, the compressor (compressor delays seven minutes) shall start after the balance of the delay time.
 - (5) The fan motor in the freezer compartment rotates at high speed during ICE PLUS.
- 6. For the rest of 21 hours, the freezer will be controlled at the lowest temperature.

8-1-4. REFRIGERATOR LAMP AUTO OFF

1. To protect the risk of lamp heat, when Refrigerator door opens for 7 min., refrigerator lamp is auto off.

8-1-5 Alarm for Open Door

- 1. This feature sounds a buzzer when the freezer or refrigerator door is not closed within 1 minute after it is opened.
- 2. One minute after the door is opened, the buzzer sounds three times each for 1/2 seconds. These tones repeat every 30 seconds.
- 3. The alarm is cancelled when the freezer or the refrigerator is closed while the buzzer sounds.



8-1-6 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced. (Refer to the Buzzer Circuit 7-2-4 No. 2)

8-1-7 Defrosting (removing frost)

- 1. Defrosting starts each time the accumulated COMPRESSOR running time is between 7:30 and 40 hours. This time Is determinated by how long the doors are opened.
- 2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
- 3. Defrosting stops if the sensor temperature reaches 46.4°F(8°C) or more. If the sensor doesn't reach 46.4°F(8°C) in 1 hours, the defrost mode is malfunctioning. (Refer to the defect diagnosis function, 7-1-9.)
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

8-1-8 Electrical Parts Are Turned On Sequentially

Electrical parts such as COMP, defrosting heater, freezer FAN, etc. are turned on in the following order to prevent noise and parts damage. Several parts are started at the same time at initial power on and are turned off together when TEST is completed.

8-1-9 Defect Diagnosis Function

- 1. Automatic diagnosis makes servicing the refrigerator easy.
- 2. When a defect occurs, the buttons will not operate; but the tones. such as ding. will sound.
- 3. When the defect CODE removes the sign, it returns to normal operation (RESET).
- 4. The defect CODE shows on the Refrigerator and Freezer Display.



ERROR CODE on display panel



NO	ITEM		E	ERRO	OR C	ODE				CONTENTS	REMARKS
1	Failure of freezer sensor	All off	•	0	0	0	0	0	0	Cut or short circuit wire	
2	Failure of Refrigerator sensor	All off	0	•	0	0	0	0	0	Cut or short circuit wire	Inspect Connecting wires on each sensor
3	Failure of defrost sensor	All off	0	0	•	0	0	0	0	Cut or short circuit wire	
5	RT-sensor error (LED check mode)	All off	0	0	0	•	©	0	0	Open or short circuit	
4	Poor of defrost	All off	•	•	•	•	0	0	0	1 hours later after starting defrost, If sensor doesn't be over 46°F (8°C)	Snapping of defrost heater or Temperature fuse, pull-out of Connector (indicated minimum 1 Hours after failure occurs)
5	Failure of BLDC fan motor at freezing compartment	All off	•	•	•	•	•	0	0	If there is no fan motor signal, for more than 115seg In operation	Poor motor, hocking to wires of fan, contact of structures to fan, snapping or short of lead

8-1-10 TEST Mode

- 1. The Test mode allows checking the PCB and the function of the product as well as finding out the defective part in case of an error.
- 2. The test mode is operated by pressing two buttons at Display panel.
- 3. While in the test mode, the function control button is not recognized, but the recognition tone (beep~) sounds.
- 4. After exiting the test mode, be sure to reset by unplugging and then plugging in the appliance.
- 5. If an error, such as a sensor failure, is detected while in the test mode, the test mode is cleared and the error code is displayed.
- 6. While an error code is displayed, the test mode will not be activated.

MODE	MANIPULATION	CONTENTS	REMARKS
TEST1	Push ICE PLUS key and ADJUST key of Freezer Temperature at the same time over 3 seconds.	 Continuous operation of the COMPRESSOR Continuous operation of the freezer fan STEPPING DAMPER OPEN Defrosting Heater OFF Every DISPLAY LED ON 	
TEST2	Push ICE PLUS key and ADJUST key of Freezer Temperature at the same time over 3 seconds in TEST MODE 1	1. COMP OFF 2. Freezer FAN OFF 3. STEPPING DAMPER COSE 4. Defrosting heater ON 5. DISPLAY LED 1, 3, 5, 7 ON	Reset if the temperature of the Defrosting sensor is 46°F (8°C) or more.
Reset	Push ICE PLUS key and ADJUST key of Freezer Temp. at the same time over 3 seconds. in TEST MODE 2	Reset to the previously setting before TEST MODE	The compressor will Start after a 7-minute delay.

NOTE: LED CHECK MODE: When the refrigerator temperature control and the freezer temperature control button at the same time are hold for 1 second or longer, every LED on the display turns on at the same time. when the button are relessed, the previous mode is restored.

* Freezer Fan RPM Variable Check:

In case the freezer fan is in operation when the ADJUST key in Refrigerator and Freezer Temp. Control are pressed for more than one second at the same time freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed, to high speed for 30 seconds)

After 30 seconds, it turns to its original RPM.

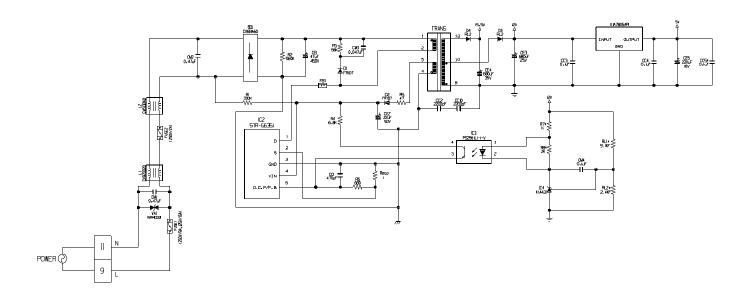
* Demonstration MODE:

- 1. When the ICE PLUS key and ADJUST key of refrigerator temperature control are pressed for more than 3 seconds at the same time temperature's it converts to demostration mode.
- 2. In this status, each LED is rotated with 1 second interval.
- 3. In this status, all Loads are off (Compressor / Fan / Damper / Heater)

 (Even is Demonstration Mode, the refrigerator Lamp automatic off function works normally and can be demostrated)
- 4. It reset if you do again as clause.

8-2 PCB FUNCTION

8-2-1 Power Circuit



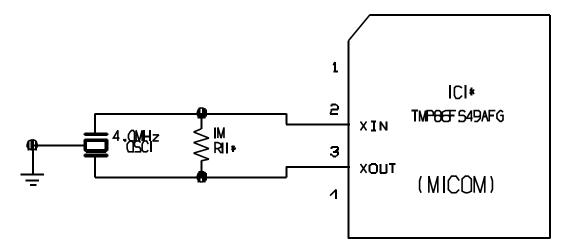
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

The voltage for each part is as follows:

PART	VA 1	CE 3	CE 4	CE 5
VOLTAGE	115 Vac	12 Vdc	15.5 Vdc	5 V

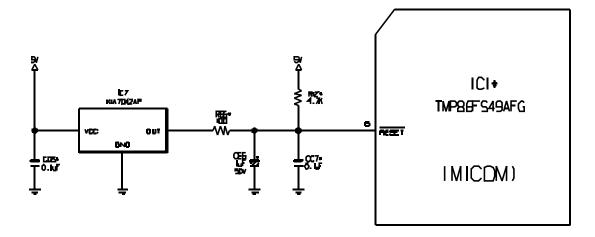
VA1 is a part for preventing over voltage and noise. When 385V or higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

8-2-2 Oscillation Circuit



This circuit generates the base clock for calculating time and the synchro clock for transmitting data from and to the inside logic elements of the IC1 (MICOM). Be sure to use specified replacement parts, since calculating time by the IC1 may be changed. If changed, the OSC1 SPEC will not work.

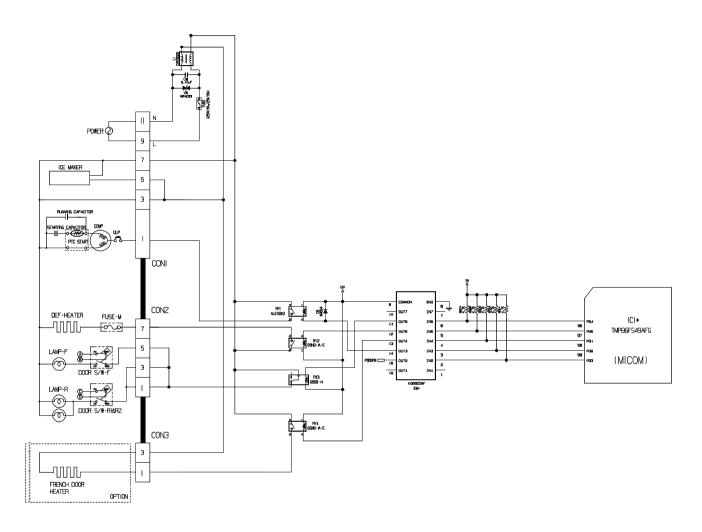
8-2-3 Reset Circuit



The RESET circuit allows all the functions to start at the initial conditions by initializing various parts, including the RAM inside the MICOM (IC1) when the power is initially supplied or the power supply to the MICOM is restored after a momentary power failure. For the initial 10ms of power supply, LOW voltage is applied to the MICOM RESET terminal. During a normal operation, 5V is applied to the RESET terminal. (If a malfunction occurs in the RESET IC, the MICOM will not operate.)

8-2-4 Load / Buzzer Drive & Open Door Detection Circuit

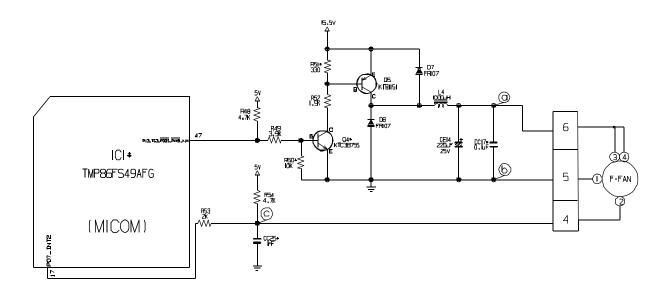
1. Load Drive Condition Check



LOAD TYPE		COMP	DEFROSTING HEATER	LAMP	FRENCH DOOR HEATER 1, 2 / DEW HEATER
Measurement Location (IC6)		NO.14 NO.12 NO.11		NO.13	
ON ON		1V or below			
Condition	OFF			12V	

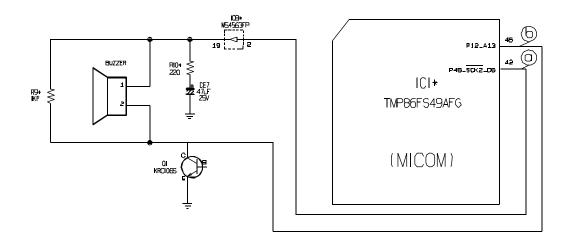
2. Fan motor driving circuit (freezing compartment fan)

- 1. This circuit makes standby power **0** by cutting off power supplied to ISs inside of the fan motor in the fan motor OFF.
- 2. This is a circuit to perform a temporary change of speed for the fan motor and applies DC voltage up to 7.5V ~ 16V to motor .
- 3. This circuit prevents over-driving the fan motor by cutting off power applied to the fan motor in the lock of fan motor by sensing the operation RPM of the fan motor.



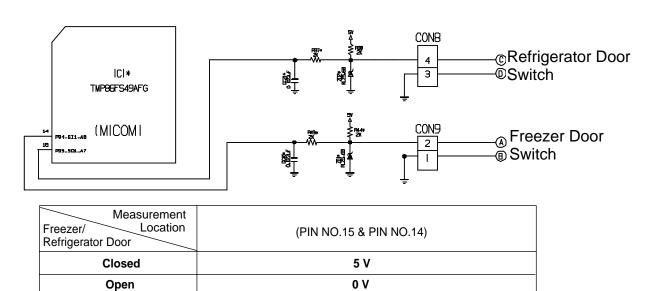
	a part	(b) part	© part
MOTOR OFF	2V or less	0V	5V
MOTOR ON	13V~15V	0V	2V~3V

3. Buzzer Drive Condition Check

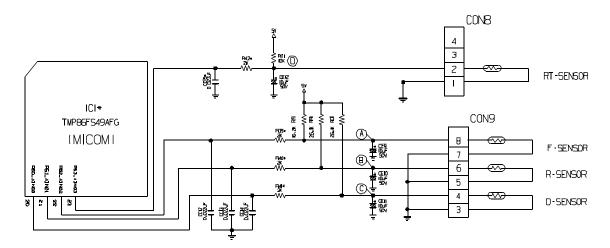


Condition Measure- ment Location	Tone (Ding~Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 (A)	0.05 s 0.2 s 0.1 s 2 s 0 V 0 V	0.5 s 0.5 s 0.7 s	0 V
IC1 (®)	5 V 0 V2.63 kz (Ding~)2.21 kz (Dong~)	5 V 0 V	0 V

4. Open Door Detection Circuit Check



8-2-5 Temperature Sensor Circuit

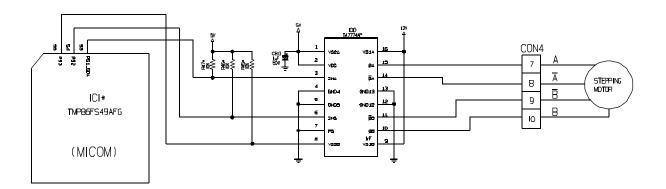


The upper CIRCUIT reads REFRIGERAOR temperature, FREEZER Emperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM. OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

SENSOR	CHECK POINT	NORMAL (-30°C ~ 50°C)	SHORT-CIRCUITED	OPEN
Freezer Sensor	POINT (A) Voltage			
Refrigerator Sensor	POINT B Voltage	0.5 V ~ 4.5 V	0 V	5 V
Defrosting Sensor	POINT © Voltage			

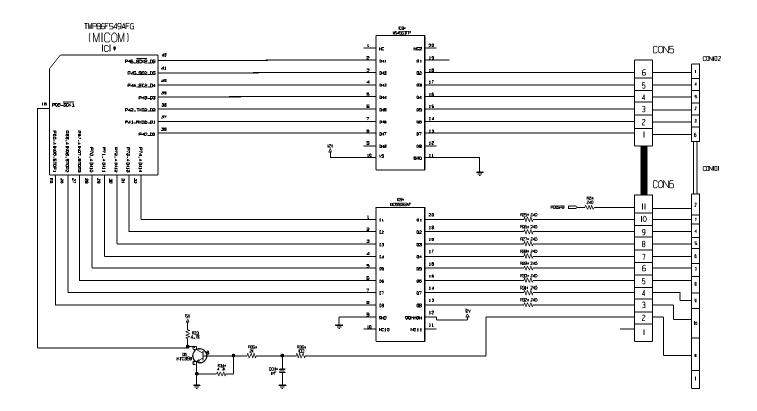
8-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

* The circuit shown below is the damper circuit to regulate the refrigerator temperature.



8-2-9 Key Button Input & Display Light-On Circuit

? The circuit shown above determines whether a function control key on the operation display is pushed. It also turns on the corresponding function indication LED (LED Module) SEVEN SEGMENT DISPLAY (SEVEN SEGMENT DISPLAY MODULE). The drive type is the scan type



8-3 RESISTANCE SEPECIFICATION OF SENSOR

TEMPERATURE DETECTED BY SENSOR	RESISTANCE OF FREEZER SENSOR	RESISTANCE OF REFRIGERATOR & DEFROST SENSOR & ROOM SENSOR
-20° C	22.3 ΚΩ	77 ΚΩ
-15º C	16.9 KΩ	60 ΚΩ
-10° C	13.0 ΚΩ	47.3 ΚΩ
- 5° C	10.1 ΚΩ	38.4 ΚΩ
0° C	7.8 ΚΩ	30 ΚΩ
+ 5° C	6.2 ΚΩ	24.1 ΚΩ
+ 10° C	4.9 ΚΩ	19.5 ΚΩ
+ 15° C	3.9 ΚΩ	15.9 ΚΩ
+ 20° C	3.1 ΚΩ	13 ΚΩ
+ 25° C	2.5 ΚΩ	11 ΚΩ
+ 30° C	2.0 ΚΩ	8.9 ΚΩ
+ 40° C	1.4 ΚΩ	6.2 ΚΩ
+ 50° C	0.8 ΚΩ	4.3 ΚΩ

⁻ The resistance of the SENSOR has a $\pm 5\%$ common difference.

⁻ Measure the resistance of the SENSOR after leaving it for over 3 minutes in the measuring temperature. This delay is necessary due to sensor response speed.

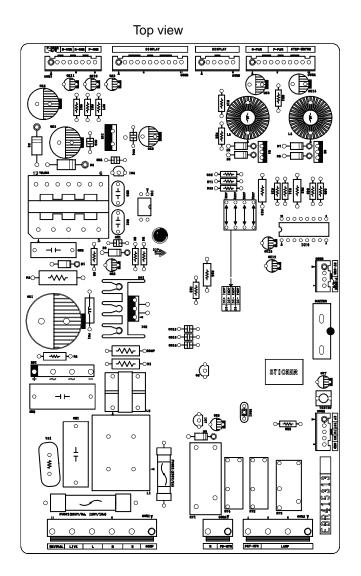
8-4 TROUBLESHOOTING

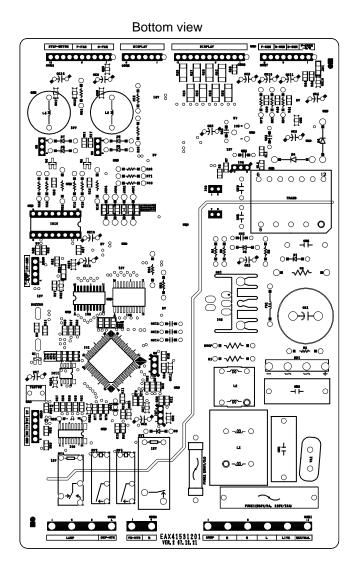
		-			
PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
POWER SOURCE is poor.	The whole DISPLAY LED/SEVEN SEGMENT DISPLAYIS off.	1. FREEZER/ REFRIGERATOR.	Check if FREEZER/ REFRIGERATOR DOOR IS OPEN and check display.	POWER SOURCE is poor.	Check outlet Voltage.
	2. DISPLAY LED/ SEVEN SEGMENT	2. If LAMP is dim. 3. The connection of	Check visually. Check connection of	Applied voltage error. CONNECTOR connection	Use boosting TRANS. Reconnect CONNECTOR.
	DISPLAY operates	the MAIN PWB	CONNECTOR.	is poor.	TOO ON THE COLORS
	abnormally	CONNECTOR.		TRANS FUSE is open.	Replace TRANS.
COOLING is poor.	NO COOLING.	If the COMPRESSOR operate.	USE TEST MODE1 (forced COOLING).	COMPRESSOR locked or blocked.	Replace COMPRESSOR.
			If less than 7 minutes pass	OLP, PTC is poor.	Replace OLP, PTC.
			don't press the KEY and	poor.	REPLACE MAIN TWO.
			wait.	THE CONNECTING WIRE	Check the connection of the
				is poor.	black wire of the MAIN PWB CONNECTOR (CON2).
		2. If refrigerant is leaking.	Measure the amount of frost	Refrigerant leakage.	Replace the leaking part and
			and the surface temperature		
			of the condenser pipe.		
	FREEZER TEMPERATURE is	1. If FANMOTOR operates.	USE TEST MODE1 (forced COOLING).	FAN MOTOR is poor.	Replace the FAN MOTOR.
	incorrect			CONNECTING WIRE is poor.	Refer to 8-2-4, 2 and check
		2. If DEFROSTING	Check the amount of frost	DEFROSTING is poor.	See DEFROSTING
		3. If SENSOR	Check the resistance	SENSOR RESISTANCE is	Replace SENSOR.
		is normal.	of the Refrigerator SENSOR.	poor.	
		4. Door Line contact.	Check the seal when the door is closed.	Door liner damaged.	Replace door liner.

			DEFROSTING is poor.			PROBLEM COOLING is poor.
			NO DEFROSTING.		TEMPERATURE is too low.	INDICATED BY If REFRIGERATOR
3. If ice remains after DEFROSTING.	2. If DRAIN PIPE is blocked.		1. If HEATER emits heat.	3. Door Line contact.	isn ormal. 2. If amount of cool air from FAN MOTOR is sufficient.	CHECK CHECKING ME 1.If FREEZER TEMPERATURE Check is FREEZER
Make sure that DEFROST SENSOR is connected. Make sure that FREEZER / REFRIGERATOR DOOR is closed.	Check DRAIN PIPE.		USE TEST MODE3 (forced DEFROSTING).	check supplied on the REFRIGERATOR. Check door seal when door is closed.	TEMPERATURE itoo low. Make sure that the amount and speed of cool air are sufficient by touching the	CHECKING METHOD Check is FREEZER
Connection is poor. DOOR does not close properly.	HEATER RELAY is poor. DRAIN PIPE is blocked.	Connection is poor. DEFROST-SENSOR is poor.	HEATER disconnection. TEMPERATURE FUSE disconnection.	EVA frozen. Door liner damaged.	FAN MOTOR is poor. Passage of cool air is blocked.	CAUSE
Reassemble the DEFROST-SENSOR. Reassemble DOOR. Replace GASKET.	Replace RY2 of MAIN PWB. Remove ice and impurities. Check HEATER PLATE resistance.	Check EVAPORATOR connection and wire of MAIN PWB CONNECTOR. Replace DEFROST-SENSOR	Replace HEATER. Replace TEMPERATURE FUSE.	See DEFROSTING is poor. Replace Door liner.	DOOR isattached. Replace FAN MOTOR. Remove impurities.	SOLUTION Make sure the

8-5 MAIN PWB ASSEMBLY AND PARTS LIST

8-5-1 Main PWB Assembly





8-5-2 Replacement Parts List

	P/N0 E4X4I53I20I	DESCRIPTION PMB (PDB)	SPEC BRAVOSO PJT, ZBLDC VER, 2	MAKER DOD SAN	FEMARK T:1.6
2	6170_B2012A	TRANSFORMER, SMPSLCOIL I	DL-PUT 2-9MH/20V	SAM IL, SMC	TRANS
4	6170JB20128 6170JB2012C	TRANSFORMER, SMPSI COIL I	GR-207,BLDC 100V-127V	SAM IL, SMC	IIIMO
5		PROTECT DEVICE, FUSE	EZINR GLASS, ZEGV GA KS AXIAL DK	neisei	FUSEI
7 8	EAF36839802 0FZZ_EB300IA	PROTECT DEVICE, FUSE PROTECT DEVICE, FUSE		0R(9E). 0R(9E).	PLGEZ
9	6630W0III	CONNECTOR (CIRC) WAFER	YW396 YEONHO IIP 3,95MM YW396 IIAV (IIP-2,4,6,8,10)	YEON HO	CON
12	6630A091060 6630A09106A	CONNECTOR (CIRC) WAFER	YW396-07AV YEONHO 7PIN 3.96MM STRAIGHT SN	YEDN HO YEDN HO	CON2 CON3
13 14	6630JB8004J 6630JB8004E 6630JB8004K	CONNECTOR (CIRC), WAFER CONNECTOR (CIRC), WAFER	SW250-06P 6P 2.50M IP STRAIGHT	YEON HO YEON HO	CON4 CON5
15 16	6630JB9004G	CONNECTOR (CIRC) WAFER CONNECTOR (CIRC) WAFER	SW250-09P 8P 2.50MM IR STRAIGHT	YEON HO YEON HO	CONF CONF
I7 IB	6630JB9004C 6630JB9004D	CONNECTOR (CIRC), WAFER CONNECTOR (CIRC), WAFER	SM250-04P 4P 2.50M/ IR STRAIGHT SM250-05P 5P 2.50M/ IR STRAIGHT	YEON HO YEON HO	CONB CONB
20	6102W5V007A	VARISTOR	NAI4033IK 330V 10% UL/CSA/VDE BK ILJIN	IL JIN SAMMHA	VAI
21	6102JB900IB	VARISTOR	SVC33ID-14A FYRH33I SVG6ZID-14A SAMMA UL/VDE BK G2OV	THINKING SAMMHA, IL JIN	
22		RELAY .		MATSUSHITA	RYI
	6920_B2005B 6920_B2005C	Table 1	G5US-IA-NT-12VDC AC250V DCI2V IGA IA UL/CSA/VDE LEAD	OMFION DEC	
23	EBB35235101 6920.B2003H 6920.B2003D	RELAY	ONIH-SS-IIZLW OEG ACZOOV DCEV IGA IA UL/CSA/VDE/EMKO DIP OEG IGSNB-IA-E SVOC ACZSOV DCSV SA IA UL/CSA/VDE 20.5+7,2+15,3 DP	TYCD OMRON	RY2,RY4
	6920JB2003D 6920JB2003E		ONIF-55-12.M GES AZ-20V DOEV ISA A LUCSA-VOEZ-55-MO DIP GES GSNE-1-KE 590C ACSSOV DOSV 54. IA LUCSA-VOE 20,5-7,2-15,3 DIP GSNE-1-KE 1-20COLPIN AZ-20VOGSOV DOEV 54. IA LUCSA-VOE GSNE-1-KE 1-20COLPIN AZ-20VOGSOV DOEV 54. IA LUCSA-VOE GSNE-1-KE 1-20COLPIN AZ-25OV/DGSOV DOEV 54. IA LUCSA-VOE	OMPON OMPON	
24	6920_820098	RELAY		DMRDN	RY3
25	6212BA304IA	OSCILLATOR, RESONATOR, CERAMIC		MURATA	OSCI
26 27	EAN4400590I	IC,MICROCONTROLLERS	TMP86FS49AFG TOSHIBA 64P BULK FLASH BRAVO30 ENERGY STAR '08	TOSHIBA	ICI
29 29	EAN44005902 EAN44005903	IC "MICROCONTROLLERS IC "MICROCONTROLLERS IC "MICROCONTROLLERS	TMP86FS49AFG TOSHBA 64P BULK FLASH BRAVO30 ENERGY STAR '08 TMP86FS49AFG TOSHBA 64P BULK FLASH BRAVO33 BETTER ENERGY STAR '08 TMP86FS49AFG TOSHBA 64P BULK FLASH INNERS CODD/3ETTER ENERGY STAR '08	Toshiba Toshiba	
29 30 31	EAN44005904 EAN44005905	IC_MICROCONTROLLERS IC_MICROCONTROLLERS	TMPB6F549AFG TOSHIBA 64P BLLK FLASH INN-ER2 BEST ENERGY STAR 'OB TMPB6F549AFG TOSHIBA 64P BLLK FLASH BRAVO33 BASIC	Toshiba Toshiba	
32	OIPMGSKOOIA OIPMGNEOOIA	IC,HIC	STR-66351 F.BF019.4V 9.ITOLLIV SMITCHING REGULATOR ZIP ST 5P PS256IU-I-V NEC 4P,0IP BK = TLP72IF	SANKEN	IC2
34 35	OIRE43ID00A OIRE790500W	PHOTO,COUPLER IC,VOLTAGE REGULATOR IC,VOLTAGE REGULATOR	IKIA43I JbV JbV /XXMW IU32 IP JP	NEC KEC VEC	IC3 IC4 IC5
36 37 38	OIKE #90500W OIKE #50030C	IC,VOLTAGE REGULATOR IC,VOLTAGE DETECTOR	KIA76054F 77020V 5V 2W T0220IS ST 3P KIDE5034F IS 50P K70H DRIVE KIDE5034F IS 50P K70H DRIVE KIA7042P -0,37015V 4,2V 400W T022 TP RESET 3P NES4563FP MITSLEISHI 20 RVTP COWERT	KEC KEC	105 107
39 40	OISTI MIDOIA	IC,LOGIC IC IC,LED DRIVER	KIREGRAF - 0.5TORY - 0.5TORY 350M NP ST 209	KEC	IC8 IC9
41	0 KE650830B EAN341 E00 I 0 ITO 777400A	IC,MOTOR DRIVER	ULNZBOBAF OV TO BOV -0.5V TO BOV 480MW SOL B/TP IBP	TOSHIBA TOSHIBA	ICID
42	0IRH934600D	IC_EEPRON			ICII
44 45	OISTLKEOOSA OTRKEBOOSZA	TRANSISTOR, BIPOLAR TRANSISTOR, BIPOLAR TRANSISTOR, BIPOLAR	RRCIGES KEC SOT-23 TP TRANSISTOR KTC3875S NRN SV 50V 50V 150V 150V 100NA 100NA 7010700 150MM 50123 RZTP 3P KTBIES IRW-7-V -6DV -6DV -54 - D.000DJA 160T0M00 1,5W 1010E 5T 3P	KEC KEC	01 02,04
46 47	OTRICESOUSZA OTRICESOUSZA OTRISISBOSAA	TRANSISTOR, BIPOLAR TRANSISTOR, BIPOLAR	KTBIISI PNP -7V -60V -60V -54 - 0.0000IA 160T0400 I ,5V T0I26 ST 3P KTC3I9BIKTCBISI NPN 5V 60V 50V 50MA IDDNA 70T0700	KEC KEC	03,05 05
48 49	0DB360000AA	nime prince	0398450 600V 1.05V 10UA 80A SIP ST 4P 4	SHINDENGEN	EOI
	00ZFM001684 00H107009AA	DIODE, ZENER DIODE, RECTIFIER DIODE, RECTIFIER DIODE, RECTIFIER	RLZ5.6B 5.67 5.45T05.73V 130HM 500HM 1.34 R/TP 2P FRIO7 TP FECTINO DOL1 (1000 H 300 500 EEC 5A RL2 BY SAMED TO41 400V 2.04 400 6.655C 10JA	ROHM DELTA	ZD1, ZD2 D1, D2, D5-D9
23 24 25	0DF5A00070A 0DD400409AC	CLOCE, RECTIFIER CLOCE, RECTIFIER	RL2 BK SANKEN D041 400V 2.04 40A 0.6SEC IOUA IN4D04156MMI TP D0204AL 400V IA 30A 30UA	SANKEN DELTA	D3,D4 D9
54 55 56	6210JB800IA	FILTER BEAD	BF535I0AOL ECOHM 3.5XIOWI AXIAL TP	SAM WHA	FBI
57	6200JE3004A EAMGQ202IDI	FILTER, LINE NOISE FILTER, LINE NOISE	CV370200 7A 2mH CV613240 TNC BK 1,3A 24mH NM510800 NM 20% 1,3YU 1A 10HW 50HZ 1 NON 9HELD 16,5MM x17MM 12MM TR	INC INC INC	LI L2
58 59 60	OLRIOOIM4FO OCD474IA67D	INDUCTOR_WIRE WOUND_RADIAL CAPACITOR_FILM BOX		PILKOR	L3,L4 OMI,OM2
61 62 63	OCF473[Y47D OCKIO40K949	CAPACITOR, FILM BOX CAPACITOR, CERANIC, AXIAL	0.43/F 20% 2759 MFP -40T0-48C NON-NO 28XII-5X2NM 22.53M BK 0.047/F 0.059F 630V FP -10T0-65C NO 12,5x5d/M/ 12,53M BK KOFF -2010-80% 50V 15V -2510-85C 3,53X,54M 1,53M 1352	PILKOR SAM WHA	CMG CMM
64	OCE476ZV6E0	CAPACITOR.AL.RADIAL	43.6 DOV 4EOU EERMA DETOLIGED BT DOVOID DOVODAL IDAA DIAD IN DV	SAM WHA,SAM YOUNG SAM WHA,SAM YOUNG	Œ
65 67	00E226BK638 00E687NH6E0 00E687YJ6IB 00E227BF 538		22UF 20% 50V 79MA -55TO+105C WT 100CHR 5X11MM 5MM FORMING TP 580UF 20% 25V 780A -25TO+80C RD 2000HR 10X12,5MM 10MM DIP BK	SAM WHA.SAM YOUNG SAM WHA.SAM YOUNG	CE2 CE3
68	OCE2278F638 OCE105EK638	CAPACITOR, AL, RADIAL	220 20 30 759M - 950-0100 #T (1004)F (2014) MM (1004)F (1004) 880 / 20, 20 78M - 950-0100 #T (1004)F (2014) MM (1004)F (1004) 880 / 20, 20 78M - 950-0480 #T (2004)F (2014) MM (1004) F (2014) 880 / 20, 20 74 740M - 950-0480 #T (2004)F (2014) MM (2004) F (2014) 200 / 20, 167 / 2014 - 950-0480 #T (2004)F (2014) MM (2004)F (2014) 12 200 / 2014 - 950-0480 #T (2014)F (2014	SAM WHA, SAM YOUNG SAM WHA, SAM YOUNG SAM WHA, SAM YOUNG SAM WHA, SAM YOUNG	CE4 CE5
70 71	0CE476BH63B 0CE227BH63B	CAPACITOR, AL, RADIAL CAPACITOR, AL, RADIAL CAPACITOR, AL, RADIAL	ICF 20X 50X 13M - 1510F105. III SKIMM 5MM FORMING TP ZZOLF 20X 25X 277MA - 9510F105. TP5 ZZOLF 20X 25X 277MA - 9510F105C TP 150 MM 5MM FORMING TP IOUF 20X 50X 55MA - 5610F105C TIT 50 MM 5MM FORMING TP	SAM WHA, SAM YUUNG	CE6,CE13 CE7 CE8,CE14
72 73	OCE IOSEK63B	CAPACITOR, AL, RADIAL	IOUF 20% SDV SAMA -SSTO-HOSE WE SWI MAN FORMING TP	SAM WHA,SAM YOUNG SAM WHA,SAM YOUNG	CE9-CEI2
74 75	EAE34823301 00k4710k519	CAPACITOR, CERANIC, RADIAL CAPACITOR, CERANIC, AXIAI	2.2rf 207 2507 SD -2510-650 973M 53M EK 470pf -2010-607, 507 ypf -2010-660 2.3r2,0m 10m Ta52 0.1rf -2010-807, 507 ys7 -2510-650 3.571,9m 1,9m Ta52	SAM WHA SAM WHA	CC2,CCID
76 77	0DKI04DK949 0DK2230K949	CAPACITOR, CERANIC, AXIAL CAPACITOR, CERANIC, AXIAL CAPACITOR, CERANIC, AXIAL CAPACITOR, CERANIC, AXIAL	0.UF -20T0+80% 50V YSV -2ST0+85C 3.5XL,9MM 1.9M TAS2 22+F -20T0+80% 50V YSV -2ST0+85C 3.5XL,9MM N0NE TA52	SAM NHA SAM NHA	CC3,CC4 CC2-CC14
78 79	OCK1040K94A	CAPACITOR.CERAVIC.CHIP	0. ILF, 2012, 50V, 907-20%, F (Y5V), R/TP	MURATA	CC5-CC7,CC23,CC24 CC8,CC15-CC17,CC21,CC22
80 Bl	OCK223DK96A OCK102DK96A	CAPACITOR, CERANIC, CHIP CAPACITOR, CERANIC, CHIP	22NF - 2010 HBDX 50V X7R - 55T0H25C 2012 TP NF 20% 50V X7R - 55T0H25C 2012 TP	MLRATA MLRATA	CC8,CC15-CC17,CC21,CC22 CC9,CC11,CC25
88	EBC32066401	RESISTOR_SURGE	PRC_03 330KOHM 5½ IN IZX4MM DM AXIAL TA52	SMART	RI
36 98 G	EBC31763101 EBC32066501 0RD6801G609	RESISTOR, SURGE RESISTOR, SURGE RESISTOR, CARBON FILM	PRC 66D(0H4 5% 1/29 T0X4MM 26MM 24ML RX PRC_04 56RCH4 57, 271 T5_D05_59M 12,59M 24ML RX 6.6B(2H4 57, 271 T5_D05_59M 12,59M 24ML RX 6.6B(2H4 57,124M 6.5B(2,5)MM NOBE ARIBLE, T562	SMART SMART	R2 R3 R4
96 87 88	0RD47005609 0RD68005609	RESISTOR, CARBON FILM	[47 OHM,1/4W,5%,TAS2	SMART SMART	RS RS
89 90	ORSOIOIJ609	RESISTOR METAL OXIDE FILM RESISTOR METAL OXIDE FILM	EBOLTH 52, 174H 6,5542,3MM NONE AVIAL, T452 ICHM 52, HI 9,033,0MM - AXIAL, T452 I,20HH 53, HI 9,033,0MM NONE AXIAL, T452		ROCP ROCP
91	UNDUILIUGUS	RESISTOR, CARBON FILM RESISTOR, CARBON FILM	THE Y. H. S.O.G., OM - ANA, TAS2 LAMP ST. H. S.O.G., AM ADE ST. H., TAS2 3.50 M. S. T. A. S.O.G., AM - ANA, TAS2 3.50 M. S. T. A. S.O.G., AM - ANA, TAS2 3.50 M. S. T. A. S.O.G., AM - ANA, TAS2 2.50 M. S. T. A. S.O.G., AM - ANA, TAS2 2.50 M. S. T. A. S.O.G., AM AND ANA, TAS2 2.50 M. S. T. A. S.O.G., AM AND ANA, TAS2 2.50 M. S. T. A. S.O.G., AM AND ANA, TAS2 2.50 M. S. T. A. S.O.G., AM AND ANA, TAS2 2.50 M. S. T. A. S.O.G., AM AND ANA, TAS2 2.50 M. S. T. A. S.O.G., AM AND ANA, TAS2	SMART SMART	RI5,R49 RI6,R52
92 93 94	0RD20016609 0RD2400H609	HESISTOR, CARBON F LM RESISTOR, CARBON F LM	2KOHM 5X 1/4W 6,5X2,3MM NONE AXIAL TA52 2400-M 5X 1/2W 9,0X3,0MM 26,0MM AXIAL TA52	SMART SMART	RI9,R38,R53,R55 R24
95 96		RESISTOR, CARBON FILM RESISTOR, METAL FILM	4.7WCHW 57.1/4W 6.5X2.3WM NONE AXIAL TAS2 26.1K0HM,1/4W,1X,TA52	SMART SMART	R14,R20,R33,R48,R54 RD1,RR
97 98	0RNI002G409 0RNI622G409	RESISTOR,METAL FILM RESISTOR,METAL FILM	ICKOHM IX. 1/4W 6,532,3MM NONE AXIAL TA52 I6.2KOHM IX. 1/4W 6,532,3MM NONE AXIAL TA52		RTI FF1
99	ORJIOOIE672	RESISTOR, CHIP	KUM EV 1 /DN 2012 D /TD	ROHM	R7,R9
101	0RJ910IE472 0RJ240IE472	RESISTOR,CHIP RESISTOR,CHIP RESISTOR,CHIP	9. IKOM. IZ 1/9F 2012 RZTP 2. 4KOM. I 1/9F 2012 RZTP 2KOM. 5Z 1/9F 2012 RZTP	ROHM	R.I R.2
104 104	0R02001E672 0R01002E672 0RH4701L622	RESISTOR, OHIP RESISTOR, OHIP RESISTOR, OHIP	ZNUTW DV. IZBIT ZULE TECHT LDXLDMI, IZBIN, SV., 2012, R/TP LA DVZMI, IZBIL DV. DV. 2012, D	ROHM ROHM ROHM	RB, R35, R37, R39-R44 RB, R45-R47, R50, R63-R72, R77-R85 RB, R34, R56-R59, R73-R76, R87-R91
105 105	0RJ2400H690 0RJ2200L622	RESISTOR_CHIP	2400MA EV 172W E026 D/TD	ROHM ROHM	R25-R32 R10
107 108 109		RESISTOR, CHIP RESISTOR, CHIP RESISTOR. CHIP	INOHM,1/6W,5%,2012,R/TP	HOHM ROHM ROHM	RIU RII RI7,RG
III	0RH3300L622 0RH1000L622 0RJ1500E672	RESISTOR, CHIP RESISTOR, CHIP RESISTOR, CHIP	ICODEM 5%, I/SM, 5%, 2012, FXTP IEODEM 5%, I/SM, 2012 FXTP	ROHM	R17,450 R36,R86 R60-R62
112		- account or squares	CONTRACTOR OF THE CONTRACTOR O		and the second
II4 II5	EEF0302418 4920.E3007A	SCREW, TAPTITE HEAT, SINK	BH + S 3W 8W NSW FZY 23.3±17+25 DRIVE IC STR R-S64,65,73 ZPIN I-SCREW 3MM -	HAENG SUNG (IC2)	. (102)
II6	6908_E3002F 6954E5000IA	BUZZER, PIEZO	23.3±17425 DRIVE IC STB R+564,65,73 ZPIN I-SOPEN 3MM - 850B 30V ZNHZ ZZXZ6,5X7mM PIN 0.6MM 5ZMM TP TAPING SN	DAE YOUNG DAE A LEAD	BUZZER JCRI-JCR4, FBI(ISWM)
119	6600R000008 SS0000008AA	SMITCH, TACT SOLDER TROSIN WIRET RSD SOLDER, SOLDERING	SR-34 FR-FREE, LEM-48	NAMAE	TEST S/W
120 121	55WZU+L05AA 7245ZB0004A	SOLOBR, SOLOBRING FLUX	Erwiss, sw.s.(A45 -0.500% 3.0000 SV-PBF-05 KSK 12.5 WT% D.815+-0.003	HUSUNG KDKI	•

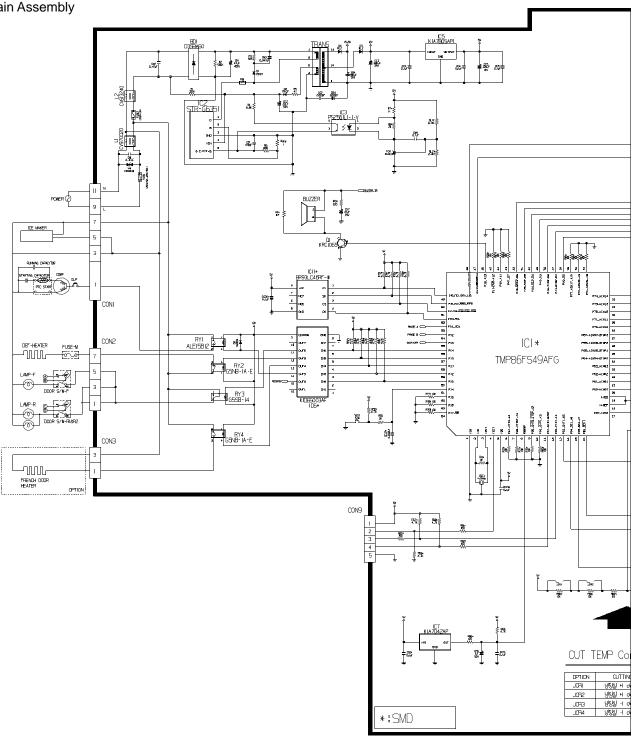
8-5-3 PWB Assembly, Display and parts list

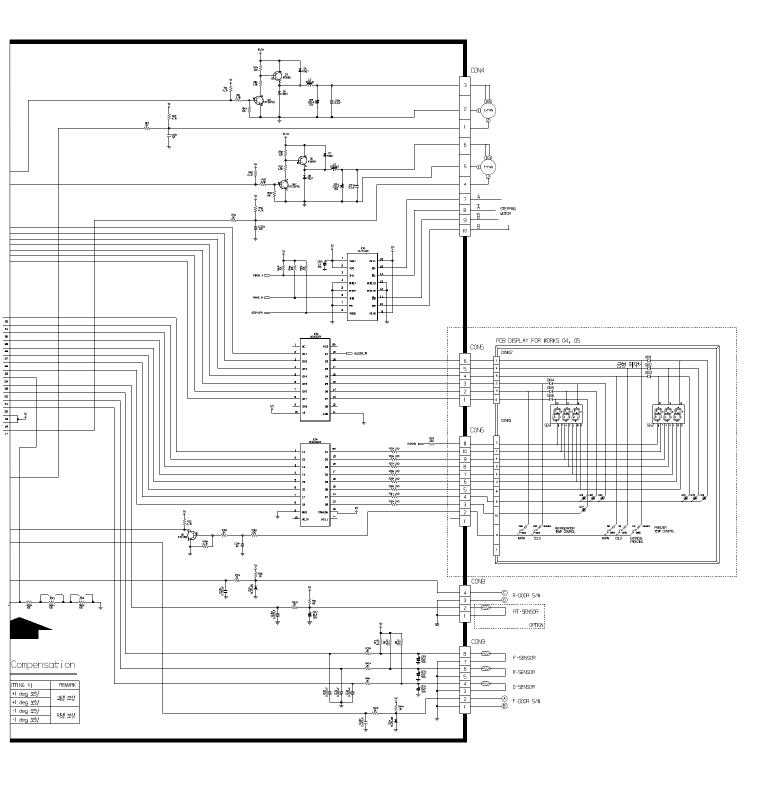


Qty	No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	1	6870JB8091A	PWB(PCB)	KS-PJT GOOD/BETTER DISPLAY	DOO SAN	t=1.6
	2					
1	3	6630AQ9159H	WAFER	SMAW250-09	YEON HO	CDN101
	4					
2	5	6600RRT002K	SWITCH,TACT	JTP1230A JEIL 12V DC 50MA	JEIL	SW101,102
		6600JB8005A		KPT-1105A	KYUNG IN	
1	6	_	TACT S/W	KPT-1109G	KYUNG IN	SW103
14	7	ODLLE0019AA	LED	LT1824-81-BCM TP GREEN 2		R1~R7,F1~F7
3	8	0DD414809AA	DIDDE,SWITCHING	1N4148 26MM	PYUNG CHANG	D101,102,103
					DELTA	
12	10	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN (10MM)	-	J101~J112
	11					
-	12	9VWF0120000	SOLDER(ROSIN WIRE) RSO	D1.20	HEE SUNG	-
10,0	13	49111004	SOLDER, SOLDERING	H63A	_	-
0,0005	14	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KDKI	-

8-6 PWB DIAGRAM

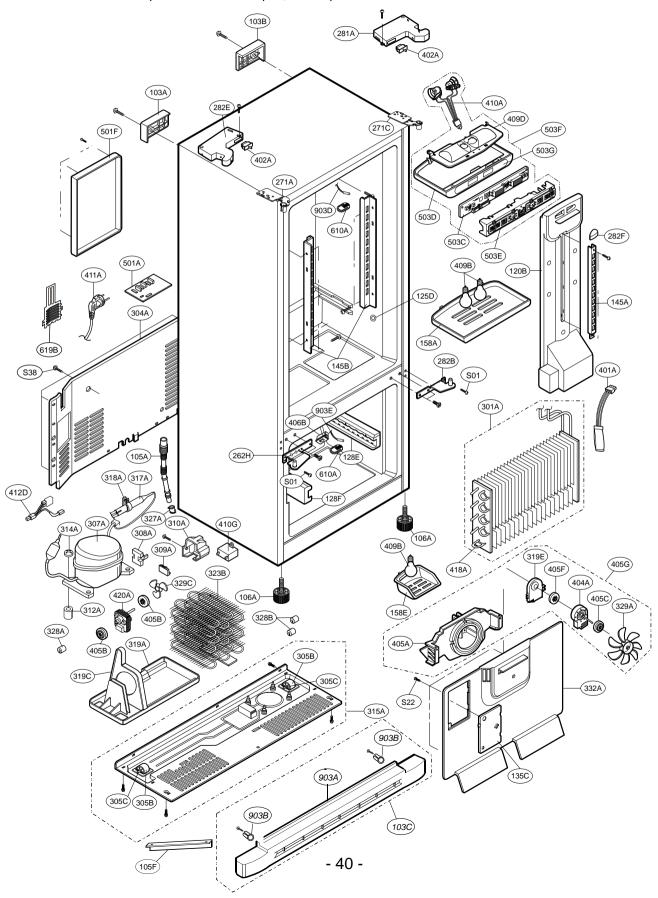
8-6-1 PWB Main Assembly



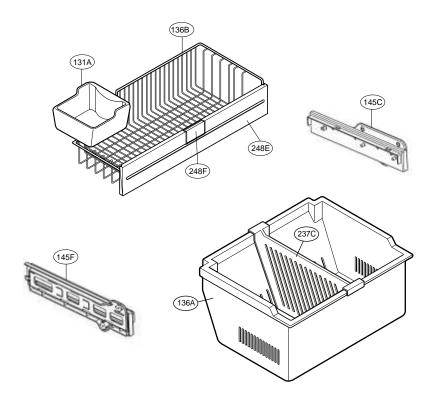


9. EXPLODED VIEW & REPLACEMENT PARTS LIST

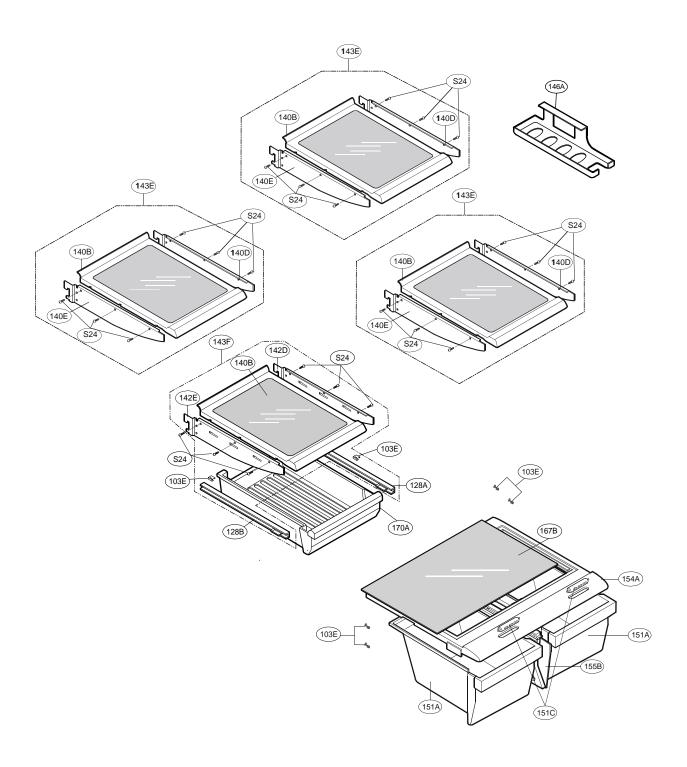
CASE PARTS



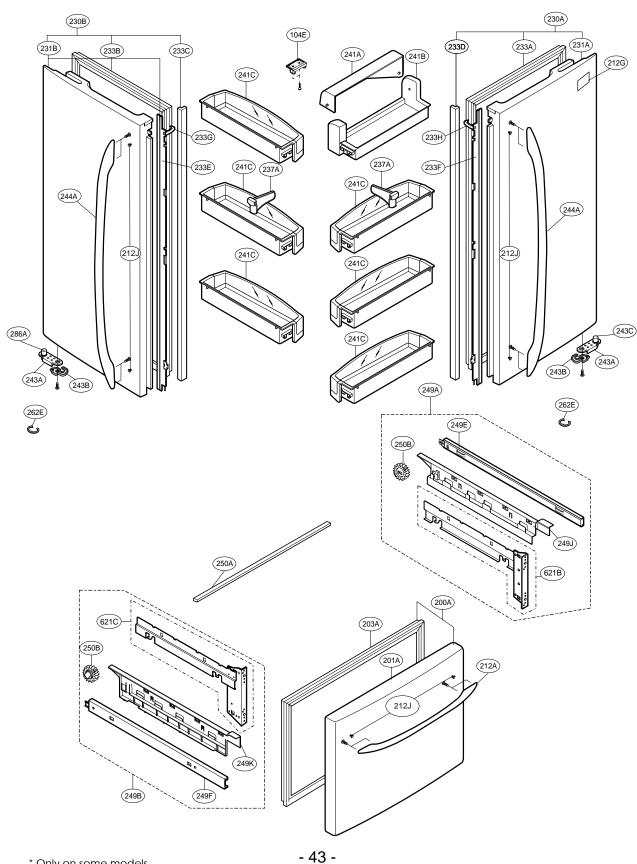
FREEZER PARTS



REFRIGERATOR PARTS

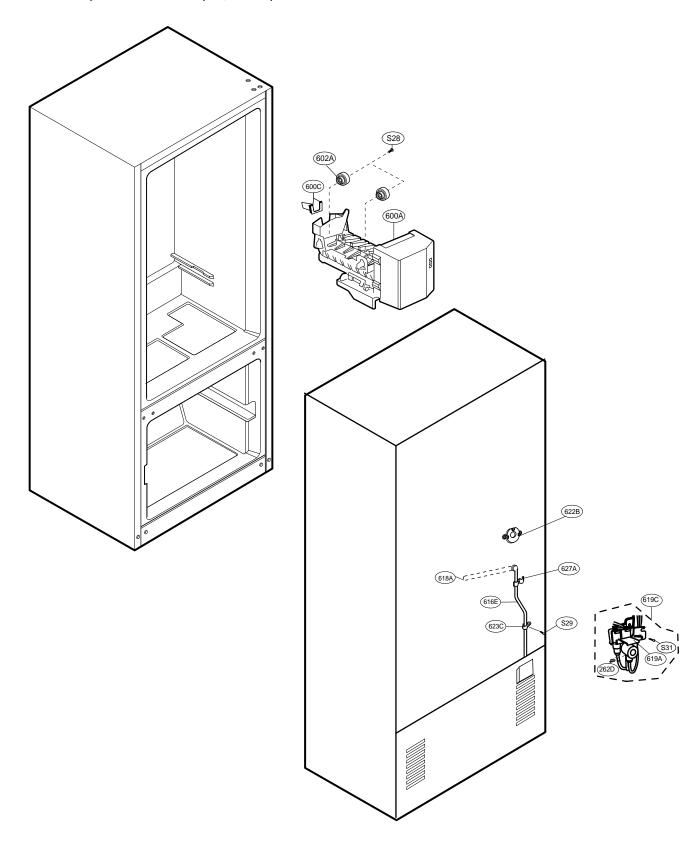


DOOR PARTS



^{*} Only on some models

WATER and ICE MAKER PARTS



OC NO	Part No.	Description	LFC23760ST Loc No	Part No.	Description
	3650JJ2003H	Handle,Rear	271C	AEH36437002	Hinge Assembly, Upper
103B	3650JJ2003D	Handle,Rear	281A	ACQ36833808	Cover Assembly, Hinge
103C	3551JJ1015H	Cover Assembly,Lower	282B	4775JJ2019E	Hinge Assembly, Center
103E	5218JJ3001A	Rail,Slide	282E	ACQ36833807	Cover Assembly, Hinge
104E	4931JJ3002A	Holder Assembly, Gasket	282F	3806JL2006H	Decor, Duct
05A	5250JA2009B	Tube, Drain	286A	4984JJ3003A	BUSH
	5070JJ3002A	Skirt,Lower	301A	5421JJ1001B	Evaporator Assembly
	4779JA2003A	Leg Assembly, Adjust	304A	3551JJ2008B	Cover Assembly, Machinery (Rear)
20B	5209JJ1002A	Duct Assembly, Multi	305B	4580JJ3001A	Roller
	4930JJ3007A	Holder,Bracket	305C	4J04238A	Pin,Common
	4975JJ2002A	Guide Assembly, Rail	307A	2521JJ8008B	Compressor,Set Assembly
	4975JJ2002B	Guide Assembly,Rail	308A	6748JJ8005B	Thermistor,PTC
	4930JJ1025B	Holder,Rail	309A	6750JJ8004B	Overload Protect
	4930JJ1025A	Holder,Rail	310A	3550JJ8003A	Cover,PTC
	5074JJ1055A	BUCKET,ICE	312A	5040JA3031A	Damper, Compressor
	3550JJ2030A	Cover,Grille Fan	314A	4620JA3009A	Stopper,Compressor
	3391JJ1011B	Tray Assembly, Drawer	315A	3103JJ1001J	Base Assembly, Compressor
	3390JJ1090A	Tray, Drawer	317A	5851JJ2002F	Drier Assembly
	5027JJ2007B	Shelf Assembly, Refrigerator	318A	4930JA3034A	Holder, Drier
	MHL38615403		319A	3390JJ0004A	Tray,Drip
	MHL38615404		319C	MEA41997401	Guide,Fan
42D	5026JJ2001L	Shelf,Net	319E	4810JJ2005A	Bracket, Motor
	5026JJ2001M		323B	5403JJ1007A	Condenser Assembly, Wire
	5027JJ1008K	Shelf Assembly, Refrigerator	327A	5006JA3034A	Cap, Drain Tube
	5027JJ1008D	Shelf Assembly, Refrigerator Holder, Shelf	328A	4J03020A	Damper,Pipe Fan Assembly
	4930JJ2003A	Holder, Shelf	329A 329C	5901JJ1005A ADP36665702	,
	4930JJ2004A 4975JJ2028C	Guide Assembly, Rail	329C 332A	3531JJ1004A	Fan Assembly Grille Assembly, Fan
	4975JJ2028C 4975JJ2028D	Guide Assembly, Rail	401A	6615JB2005C	Controller Assembly
	5047JJ1001A	Case,Lower	401A	6600JB3007B	Switch, Push Button
	3391JJ1038B	Tray Assembly, Vegetable	404A	4681JK1004A	AC Motor
	4940JJ2010A	KNOB,SHUTTER	405A	4811JJ2002A	Bracket Assembly, Motor
154A	3550JJ1108A	Cover,TV	405B	5040JJ2001A	Damper, Motor Support
	4980JJ1016A	SUPPORTER, COVER TV	405C	5040JA2009B	Damper, Motor Support
58A	3550JJ1040A		405F	5040JA2004B	Damper, Motor Support
	MCK30060901	•	405G	4811JJ2002H	Bracket Assembly, Motor
	4890JL1002H	•	406B	6600JB1004A	Switch, Push Button
	3391JJ2018D	Tray Assembly, Meat	409B	6912JB2004M	Lamp, Incandescent
200A	3581JJ8721T	Door Assembly,Freezer	409D	3034JJ1002B	Reflector,Lamp
		Door Foam Assembly,Freezer	410A	6621JK2002D	Drawing, Assembly
		Gasket Assembly, Door	410G	0CZZJB2012J	Capacitor, Electric Appliance Film, E
		Handle Assembly, Freezer	411A	6411JK1006A	Power Cord Assembly
212G	3846JD1007H		412D	6877JK2011B	Drawing, Assembly
	4620JJ2010C	STOPPER,HANDLE	418A	5300JB1100J	Heater,Sheath
230A	3581JJ8056Y	Door Assembly, Refrigerator (Rig	ht) 420A	4681JB1029J	Motor, DC
230B	3581JJ8055T	Door Assembly, Refrigerator (Lef	t) 501A	EBR41531302	PCB Assembly, Main
231A	5433JJ0063V	Door Foam Assembly, Refrigerat		3551JJ1020A	Cover Assembly,PCB
231B	5433JJ0061X	Door Foam Assembly, Refrigerat	or 503C	6871JB2047A	PCB Assembly, Display
233A	4987JJ2003N	Gasket Assembly, Door	503D	3110JJ1005A	Case, Display
233B	4987JJ2003P	Gasket Assembly, Door	503E	3550JJ2031A	Cover, Display
233C	ACQ36835601	Cover Assembly, Front	503F	ABQ33905301	Case Assembly, Display
233D	ACQ36835602	Cover Assembly, Front	503G	3806JL1049A	Decor,Control
233E	4930JJ2028B	Holder,Gasket	600A	5989JA0002N	Ice Maker Assembly, Kit
233F	4930JJ2028A	Holder, Gasket	600C	MEA32865501	Guide, Tube
233G	4430JJ2005B	Cam,Shaft	602A	4931JA3005B	Holder Assembly, Bracket
233H	4430JJ2005A	Cam,Shaft	610A	3550JJ2020A	Cover,Sensor
	4974JJ2017A	Guide,Pitcher	616E	5211JA2003B	Tube Assembly, Inject
	4974JJ1021A	Guide, Drawer	618A	5210JJ3006B	Tube,Inject
241A	3550JJ1103A	Cover, Bucket	619A	5220JA2009D	Valve, Water
	5074JJ1019A	Bucket, Dairy	619B	3550JJ2024A	Cover, Valve
241C	5005JJ2022A	Basket Assembly, Door	619C	AJU55759301	Valve Assembly, Water
	4620JJ3006D	Stopper, Door	621B	ACJ30147004	Connector Assembly
243B	4620JJ2009A	Stopper,Door	621C	ACJ30147003	Connector Assembly
		Handle Assembly, Refrigerator	622B	MJH36429401	Supporter, Tube Guide
248E	3806JJ1048A	Decor,Tray	623C	4770JA3001A	Band
248F	3806JL2011D	Decor, Tray	627A	4930JA3054A	Holder,Pipe
249A	5098JJ1002B	Connector Assembly	903A	3550JJ0006D	Cover,Lower
	5098JJ1002A	Connector Assembly	903B	4930JJ2021A	Holder,Cover(Lower)
	5218JA1010E	Rail,Slide	903D	6500JK1003A	Sensor
	5218JA1010F	Rail,Slide	903E	6500JK1004A	Sensor
249J	3550JJ1111A	Cover,Connector	S01	1SZZJJ3010A	Screw,Customized
249K	3550JJ1111B	Cover, Connector	S22	J471-00001J	Screw, Customized
250A	4270JJ3001E	Bar	S24	1SZZJA3011B	Screw, Customized
	4403JJ3001A	Connector Assembly	S28	1SZZJJ3005E	Screw, Customized
				4 100 44 ED	
	4004JA3002A	Clip	S29	4J00415D	Screw, Customized
262D 262E		Clip Ring Hinge Assembly,Center	S29 S31 S38		Screw,Customized Screw,Customized Screw,Customized

LFC23760SW					
	Part No.	Description		Part No.	Description
103A	3650JJ2003E	Handle,Rear	271A	AEH36437001	Hinge Assembly, Upper Hinge Assembly, Upper
103B 103C	3650JJ2003A 3551JJ1015B	Handle, Rear Cover Assembly, Lower	271C 281A	AEH36437002 ACQ36833802	Cover Assembly, Hinge
103E	5218JJ3001A	Rail, Slide	282B	4775JJ2019A	Hinge Assembly, Center
103E	5218JJ3001A	Rail,Slide	282E	ACQ36833801	Cover Assembly, Hinge
104E	4931JJ3002A	Holder Assembly, Gasket	282F	3806JL2006H	Decor, Duct
105A	5250JA2009B		286A	4984JJ3003A	BUSH
105F 106A	5070JJ3002A	Skirt,Lower Leg Assembly,Adjust	286A 301A	4984JJ3003A 5421JJ1001B	BUSH Evaporator Assembly
120B	5209JJ1002A	Duct Assembly, Multi	304A	3551JJ2008B	Cover Assembly, Machinery (Rear)
125D	4930JJ3007A	Holder, Bracket	305B	4580JJ3001A	Roller
128A	4975JJ2002A	Guide Assembly, Rail	305B	4580JJ3001A	Roller
128B	4975JJ2002B	Guide Assembly,Rail	305C	4J04238A	Pin,Common
128E 128F	4930JJ1025B 4930JJ1025A	Holder,Rail Holder,Rail	305C 307A	4J04238A 2521JJ8008B	Pin,Common Compressor,Set Assembly
131A	5074JJ1055A		308A	6748JJ8005B	Thermistor,PTC
135C	3550JJ2030A	Cover, Grille Fan	309A	6750JJ8004B	Overload Protect
136A	3391JJ1011B	Tray Assembly, Drawer	310A	3550JJ8003A	Cover,PTC
136B	3390JJ1090A	Tray, Drawer	312A	5040JA3031A	Damper,Compressor
140B 140B	5027JJ2007B 5027JJ2007B	Shelf Assembly, Refrigerator Shelf Assembly, Refrigerator	314A 315A	4620JA3009A 3103JJ1001J	Stopper, Compressor Base Assembly, Compressor
140D	MHL38615403	, ,	317A	5851JJ2002F	Drier Assembly
140E	MHL38615404		318A	4930JA3034A	Holder, Drier
142D	5026JJ2001L	Shelf,Net	319A	3390JJ0004A	Tray,Drip
142E	5026JJ2001M		319C	MEA41997401	Guide,Fan
143E 143F	5027JJ1008K	Shelf Assembly Refrigerator	319E 323B	4810JJ2005A 5403JJ1007A	Bracket, Motor
145F 145A	5027JJ1008D 4930JJ2003A	Shelf Assembly, Refrigerator Holder, Shelf	323B 327A	5006JA3034A	Condenser Assembly, Wire Cap, Drain Tube
145B	4930JJ2004A	·	328A	4J03020A	Damper,Pipe
145C	4975JJ2028C	Guide Assembly, Rail	329A	5901JJ1005A	Fan Assembly
145F	4975JJ2028D		329C	ADP36665702	Fan Assembly
146A	5047JJ1001A	Case,Lower	332A	3531JJ1004A	Grille Assembly,Fan
151A 151C	3391JJ1038B 4940JJ2010A	Tray Assembly, Vegetable KNOB, SHUTTER	401A 402A	6615JB2005C 6600JB3007A	Controller Assembly Switch, Push Button
154A	3550JJ1108A	Cover,TV	402A	6600JB3007A	Switch, Push Button
155B	4980JJ1016A	SUPPORTER,COVER TV	404A	4681JK1004A	AC Motor
158A	3550JJ1040A	Cover,Lamp	405A	4811JJ2002A	Bracket Assembly, Motor
158E	MCK30060901	•	405B	5040JJ2001A	Damper, Motor Support
167B 170A	4890JL1002H 3391JJ2018D	Tray Assembly, Meat	405C 405F	5040JA2009B 5040JA2004B	Damper, Motor Support Damper, Motor Support
200A	3581JJ8721S	Door Assembly,Freezer	405G	4811JJ2002H	Bracket Assembly, Motor
201A		Door Foam Assembly,Freezer	406B	6600JB1004A	Switch, Push Button
203A	4987JJ1004A	Gasket Assembly, Door	409B	6912JB2004M	Lamp,Incandescent
212A		Handle Assembly,Freezer	409D	3034JJ1002B	Reflector,Lamp
212G 212J	3846JD1007F 4620JJ2010C	Name Plate STOPPER,HANDLE	410A 410G	6621JK2002D 0CZZJB2012J	Drawing, Assembly Capacitor, Electric Appliance Film, Box
230A	3581JJ8056X	Door Assembly,Refrigerator(Right)	411A	6411JK1006A	Power Cord Assembly
230B	3581JJ8055S	Door Assembly, Refrigerator (Left)	412D	6877JK2011B	Drawing,Assembly
231A	5433JJ0063U	Door Foam Assembly, Refrigerator	418A	5300JB1100J	Heater, Sheath
231B		Door Foam Assembly, Refrigerator	420A	4681JB1029J	Motor,DC
233A		Gasket Assembly, Door	501A	EBR41531302	PCB Assembly,Main
233B 233C		Gasket Assembly, Door Cover Assembly, Front	501F 503C	3551JJ1020A 6871JB2047A	Cover Assembly,PCB PCB Assembly,Display
233D		Cover Assembly,Front	503D	3110JJ1005A	Case, Display
233D	ACQ36835602	Cover Assembly, Front	503E	3550JJ2031A	Cover, Display
233E		Holder, Gasket	503F	ABQ33905301	Case Assembly, Display
233F	4930JJ2028A	Holder,Gasket	503G	3806JL1049A	Decor,Control
233G 233H	4430JJ2005B 4430JJ2005A	Cam,Shaft Cam,Shaft	600A 600C	5989JA0002N MEA32865501	Ice Maker Assembly,Kit Guide,Tube
237A	4974JJ2017A		602A	4931JA3005B	Holder Assembly, Bracket
237C	4974JJ1021A	Guide, Drawer	610A	3550JJ2020A	Cover, Sensor
241A	3550JJ1103A	Cover, Bucket	616E	5211JA2003B	Tube Assembly, Inject
241B	5074JJ1019A	Bucket, Dairy	618A	5210JJ3006B	Tube, Inject
241C 243A	5005JJ2022A 4620JJ3006A	Basket Assembly, Door Stopper, Door	619A 619B	5220JA2009D 3550JJ2024A	Valve, Water Cover, Valve
243A	4620JJ3006A	Stopper, Door	619C	AJU55759301	Valve Assembly, Water
243B	4620JJ2009A	Stopper, Door	621B	ACJ30147004	Connector Assembly
243B	4620JJ2009A	Stopper,Door	621C	ACJ30147003	Connector Assembly
244A		Handle Assembly, Refrigerator	622B	MJH36429401	Supporter, Tube Guide
248E	3806JJ1048A	Decor, Tray	623C	4770JA3001A	Band
248F 249A	3806JL2011D 5098JJ1002B	Connector Assembly	627A 903A	4930JA3054A 3550JJ0006A	Holder,Pipe Cover,Lower
249B	5098JJ1002A	Connector Assembly	903B	4930JJ2021A	Holder,Cover(Lower)
249E	5218JA1010E	3	903D	6500JK1003A	Sensor
249F	5218JA1010F	Rail,Slide	903E	6500JK1004A	Sensor
249J	3550JJ1111A	Cover, Connector	S01	1SZZJJ3010A	Screw, Customized
249K 250A	3550JJ1111B 4270JJ3001E	Cover, Connector Bar	S22 S24	J471-00001J 1SZZJA3011B	Screw,Customized Screw,Customized
250A 250B	4403JJ3001E	Connector Assembly	S24 S24	1SZZJA3011B 1SZZJA3011B	Screw, Customized Screw, Customized
250B	4403JJ3001A	Connector Assembly	S28	1SZZJJ3005E	Screw,Customized
262D	4004JA3002A	3	S29	4J00415D	Screw,Customized
262E	4350JA3005B	Ring	S31	4000W4A003A	Screw,Customized
262H	4775JJ2019B	Hinge Assembly,Center	S38	4J00415D	Screw,Customized

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100 1	ODADT NO		23760SE		DESCRIPTION
LOC N	OPART NO 3650JJ2003M	DESCRIPTION Handle,Rear	LOC NO	OPART NO ACQ36833803	DESCRIPTION Cover Assembly, Hinge
103A 103B	3650JJ2003W	Handle,Rear	282B	4775JJ2019C	Hinge Assembly, Center
103C	3551JJ1015F	Cover Assembly,Lower	282E	ACQ36833804	Cover Assembly, Hinge
103E	5218JJ3001A	Rail, Slide	282F	3806JL2006H	Decor, Duct
103E	5218JJ3001A	Rail,Slide	286A	4984JJ3003A	BUSH
104E	4931JJ3002A	Holder Assembly, Gasket	286A	4984JJ3003A	BUSH
105A	5251JA3003B	3.	301A	5421JJ1001B	Evaporator Assembly
105F	5070JJ3002A	Skirt,Lower	304A	3551JJ2008B	Cover Assembly, Machinery (Rear)
106A		Leg Assembly, Adjust	305B	4580JJ3001A	Roller
120B 125D	5209JJ1002A 4930JJ3007A	Duct Assembly, Multi Holder, Bracket	305B 305C	4580JJ3001A 4J04238A	Roller Pin,Common
123D	4975JJ2002A	Guide Assembly, Rail	305C	4J04238A	Pin,Common
128B	4975JJ2002B	Guide Assembly,Rail	305D	4580JA3042A	Roller
128E	4930JJ1025B	Holder,Rail	307A	2521JJ8008B	Compressor, Set Assembly
128F	4930JJ1025A	Holder, Rail	308A	6748JJ8005B	Thermistor,PTC
131A	5074JJ1055A	BUCKET,ICE	309A	6750JJ8004B	Overload Protect
135C	3550JJ2030A		310A	3550JJ8003A	Cover,PTC
136A	3391JJ1011B	Tray Assembly, Drawer	312A	5040JA3031A	Damper,Compressor
136B 140B	3390JJ1090A	Tray, Drawer Shelf Assembly, Refrigerator	314A 315A	4620JA3009A	Stopper, Compressor
140B	5027JJ2007B 5027JJ2007B	Shelf Assembly, Refrigerator	317A	3103JJ1001J 5851JJ2002F	Base Assembly, Compressor Drier Assembly
140D	MHL38615403		318A	4930JA3034A	Holder, Drier
140E	MHL38615404		319A	3390JJ0004A	Tray,Drip
142D	5026JJ2001L	Shelf,Net	319C	MEA41997401	Guide,Fan
142E	5026JJ2001M	Shelf,Net	319E	4810JJ2005A	Bracket, Motor
143E	5027JJ1008K	Shelf Assembly, Refrigerator	323B	5403JJ1007A	Condenser Assembly, Wire
143F	5027JJ1008D	Shelf Assembly, Refrigerator	327A	5006JA3034A	Cap,Drain Tube
145A	4930JJ2003A		328A	4J03020A	Damper,Pipe
145B 145C	4930JJ2004A 4975JJ2028C	Holder, Shelf	329A 329C	5901JJ1005A ADP36665702	Fan Assembly Fan Assembly
145C	4975JJ2028C 4975JJ2028D	Guide Assembly,Rail Guide Assembly,Rail	332A	3531JJ1004A	Grille Assembly, Fan
146A	5047JJ1001A	Case,Lower	401A	6615JB2005C	Controller Assembly
151A	3391JJ1038B	Tray Assembly, Vegetable	402A	6600JB3007E	Switch, Push Button
151C	4940JJ2010A	KNOB,SHUTTER	402A	6600JB3007E	Switch, Push Button
154A	3550JJ1108A	Cover,TV	404A	4681JK1004A	AC Motor
155B	4980JJ1016A	SUPPORTER, COVER TV	405A	4811JJ2002A	Bracket Assembly, Motor
158A	3550JJ1040A	•	405B	5040JJ2001A	Damper, Motor Support
158E	MCK30060901	•	405C	5040JA2009B	Damper, Motor Support
167B	4890JL1002H		405F	5040JA2004B	Damper, Motor Support
170A	3391JJ2018D	Tray Assembly, Meat	405G	4811JJ2002H	Bracket Assembly, Motor
200A 201A	3581JJ8721V	Door Assembly,Freezer Door Foam Assembly,Freezer	406B 409B	6600JB1004A 6912JB2004M	Switch, Push Button Lamp, Incandescent
201A	4987JJ1004E	Gasket Assembly, Door	409D	3034JJ1002B	Reflector,Lamp
212A		Handle Assembly, Freezer	410A	6621JK2002D	Drawing, Assembly
212G	3846JD1007G		410G	0CZZJB2012J	Capacitor, Electric Appliance Film, Box
212J	4620JJ2010C	STOPPER, HANDLE	411A	6411JK1006A	Power Cord Assembly
230A	ADC56693201	Door Assembly, Refrigerator (Right)	412D	6877JK2011B	Drawing, Assembly
230B	3581JJ8055V	J. J. ,	418A	5300JB1100J	Heater,Sheath
231A	5433JJ0063X	Door Foam Assembly, Refrigerator	420A	4681JB1029J	Motor, DC
231B 233A	5433JJ0061Z	Door Foam Assembly, Refrigerator	501A	EBR41531302	PCB Assembly,Main
233A 233B	4987JJ2003F 4987JJ2003H	Gasket Assembly, Door Gasket Assembly, Door	501F 503C	3551JJ1020A 6871JB2047A	Cover Assembly,PCB PCB Assembly,Display
233C		Cover Assembly, Front	503C	3110JJ1005A	Case, Display
233D		Cover Assembly, Front	503E	3550JJ2031A	Cover.Display
233E	4930JJ2028B	Holder, Gasket	503F	ABQ33905301	Case Assembly, Display
233F	4930JJ2028A	Holder, Gasket	503G	3806JL1049A	Decor,Control
233G	4430JJ2005B	Cam,Shaft	600A	5989JA0002N	Ice Maker Assembly, Kit
233H	4430JJ2005A	Cam,Shaft	600C	MEA32865501	Guide, Tube
237A	4974JJ2017A	Guide, Pitcher	602A	4931JA3005B	Holder Assembly, Bracket
237C	4974JJ1021A		610A	3550JJ2020A	Cover, Sensor
241A	3550JJ1103A	Cover, Bucket	616E	5211JA2003B	Tube Assembly, Inject
241B 241C	5074JJ1019A 5005JJ2022A	Bucket,Dairy Basket Assembly,Door	618A 619A	5210JJ3006B 5220JA2009D	Tube,Inject Valve,Water
241C 241F	5005JJ2022A 5005JJ2021E	Basket Assembly, Door	619A 619B	3550JJ2024A	Cover, Valve
241F	4620JJ3006C	Stopper, Door	619C	AJU55759301	Valve Assembly, Water
243A	4620JJ3006C	Stopper, Door	621B	ACJ30147004	Connector Assembly
243B	4620JJ2009A	Stopper, Door	621C	ACJ30147003	Connector Assembly
243B	4620JJ2009A	Stopper, Door	622B	MJH36429401	Supporter, Tube Guide
244A		Handle Assembly, Refrigerator	623C	4770JA3001A	Band
248E	3806JJ1048A	Decor, Tray	627A	4930JA3054A	Holder,Pipe
248F	3806JL2011D	3	903A	3550JJ0006C	Cover,Lower
249A	5098JJ1002B	Connector Assembly	903B	4930JJ2021A	Holder,Cover(Lower)
249B 249E	5098JJ1002A	Connector Assembly	903D	6500JK1003A	Sensor Sensor
249E 249F	5218JA1010E 5218JA1010F		903E B01	6500JK1004A 1STZJA3004F	Screw, Customized
249F 249J	3550JJ1111A	Cover, Connector	S01	1STZJA3004F 1SZZJJ3010A	Screw, Customized Screw, Customized
249J 249K	3550JJ1111B	Cover,Connector	S22	J471-00001J	Screw, Customized
250A	4270JJ3001E	Bar	S24	1SZZJA3011B	Screw,Customized
250B	4403JJ3001A	Connector Assembly	S24	1SZZJA3011B	Screw,Customized
250B	4403JJ3001A	Connector Assembly	S27	4J01424C	Screw,Customized
262D	4004JA3002A		S27	4J01424C	Screw,Customized
262E	4350JA3005B	9	S28	1SZZJJ3005E	Screw,Customized
262H	4775JJ2019D	9	S29	4J00415D	Screw, Customized
271A		Hinge Assembly, Upper	S31		Screw, Customized
271C	AEII3043/002	Hinge Assembly, Upper	S38	4J00415D	Screw, Customized



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