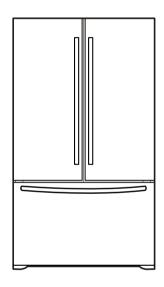


REFRIGERATOR SERVICE MANUAL

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



MODELS:

LFC22740**

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SAFETYPRECAUTIONS

Please read the following instructions before servicing your refrigerator.

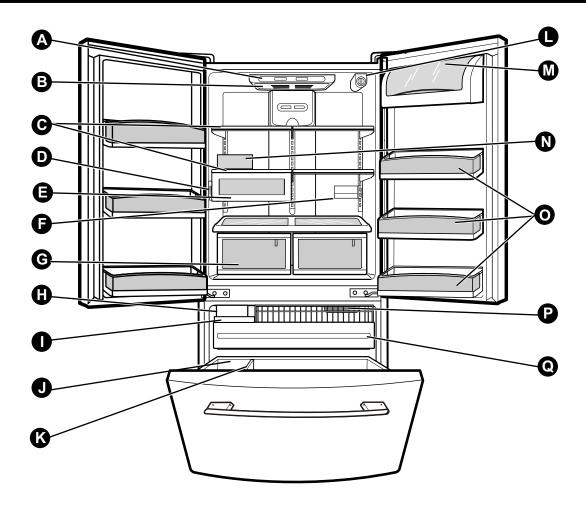
- 1. Check the refrigerator for current leakage.
- 2.To prevent electric shock, unplug before servicing.
- 3. Always check line voltage and amperage.
- 4.Use standard electrical components.
- 5.Don't touch metal products in the freezer with wet Hands.This may cause frost bite.
- 6.Prevent water from spiling on to electric elements or the Machine parts.
- 7.Before tilting the refrigerator,remove all materials from 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

22 cu. Ft.

CDEC	MODELS	LFC22740**
SPEC	CAPACITY litros(F/R/T)	197.83/436.93/634.76
	DIMENSIONS in(W*H*D)	32 7/8*69*34
JRES	WEIGHT kg	
-EATI	HANDLE TYPE	140 CURVED HANDLE
SAL F	REVERSIBLE DOOR	NO
GENERAL FEATURES	DOOR FINISH	PCM/EMBO/VCM
	REFRIGERANT/gr	R134a 115±3
~	ICE TRAY	NO
FREEZER	SHELF	NO
FRI	BASKET DOOR	NO
	LAMP	YES(1)
	TRAY MEAT	YES
	SHELF	4Fix
GERATOR	MAGIC CRISPER	NO
Ϋ́	LAMP	YES(2)
3年	TRAY EGG	NO
REFRIC	GUIDE BOTTLE	YES(2)
	DOOR COOOLING	NO
	TRAY VEGETABLE	NORMAL

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 Contro*I
- Chef Fresh / Snack Pan
- Can Dispenser
- **G** Optibin Crisper Keeps fruits and vegetable fresh and crisper
- H Customcube Icemaker*
- Ice Tray *
- **J** Durabase
- K Divider

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

*on some models

3. DISASSEMBLY

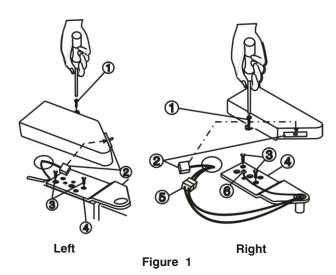
3-1 DOOR

▶ 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

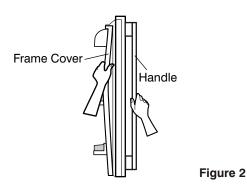
- Loosen the cover screw (1).
- Disconnect door switch wire (2).
- Disconnect wire harness (5).
- Loosen hinge bolts (3).
- Loosen ground screw (6).
- Lift off the top hinge (4).
- Place the door on a non-scratching surface with the inside up.



Door Gasket Removal

1. Remove door frame cover

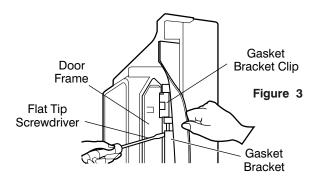
Starting at top of cover and working down, snap cover out and away from door.



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.

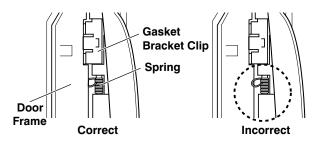


Figure 5

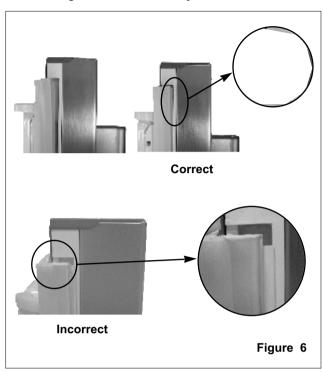
4) Push in remaining two clips until you hear each snap securely into place.

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

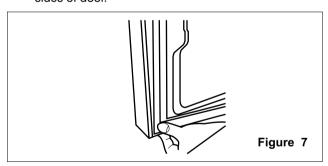
2. Insert gasket into channel

1) Snap gasket assembly into the door bracket.

<Inserting the Gasket Assembly into the Bracket Door>

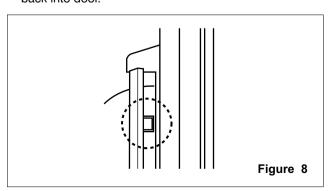


2) Press gasket into channels on the three remaining sides of door.



3. Replace door frame cover

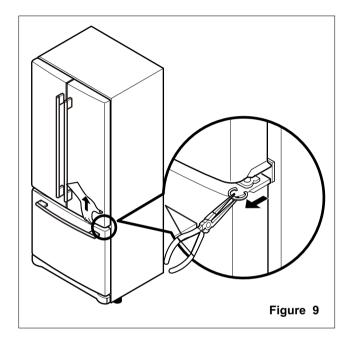
Starting at top of cover and working down, snap cover back into door.



3-2 DOOR ALIGNMENT

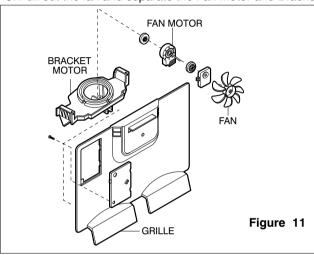
If the space between your doors is uneven, follow the instructions below to align the doors:

- 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.



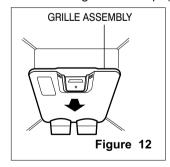
3-4 DEFROST CONTROL ASSEMBLY

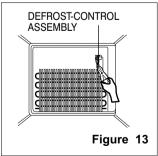
Defrost Control assembly consists of Defrost Sensor and FUSE-M.

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

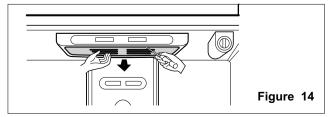
Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

- 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)





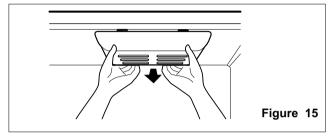
3-5 LAMP



3-5-1 To change the refrigerator light (figure 14)

- 1. Unplug the power cord from the outlet.
- 2. Remove refrigerator shelves.
- 3. Release the hooks on the front of the light shield with the help of a flat screwdriver and pull the shield down to remove it.
- 4. Turn the bulb counterclockwise
- 5. To assemble, first insert the hooks at the back and then push up the light shield upwards.

(Max. 60 W2EA).

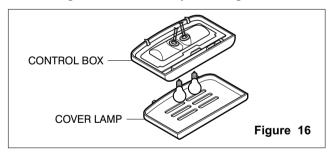


3-5-2 Freezer Compartment Lamp (figure 15)

- 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

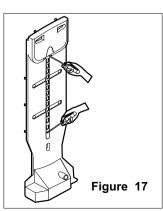
1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.



- 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

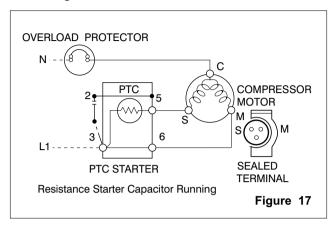
4-2-1 Composition of PTC-Starter

- 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.

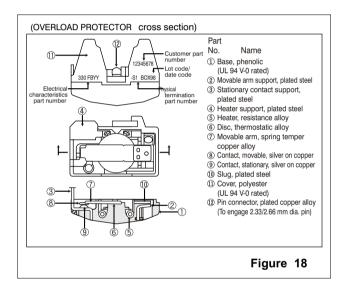
4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

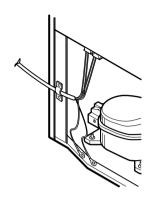
- (1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.
- (2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP,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

4-3-2 Role of the OLP

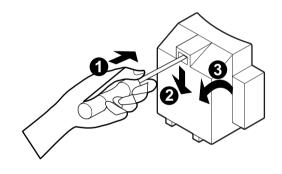
- (1) The OLP is attached to the Sealed Compressor used for the Refrigerator. It prevents the Motor Coil from being started in the Compressor.
- (2) For normal operation of the OLP, do not turn the Adjust Screw of the OLP in any way.



4-4 TO REMOVE THE COVER PTC

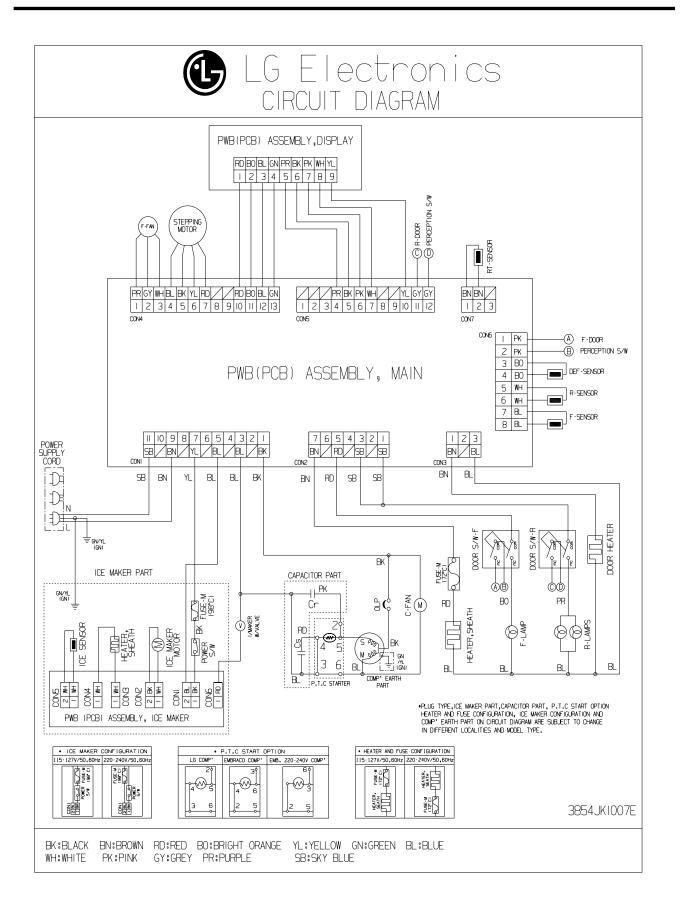


- 1) Remove the Cover Back M/C.
- (2) Disconnect two housing upper side of comp connected in.
- (3) Loosen two screws on comp base.



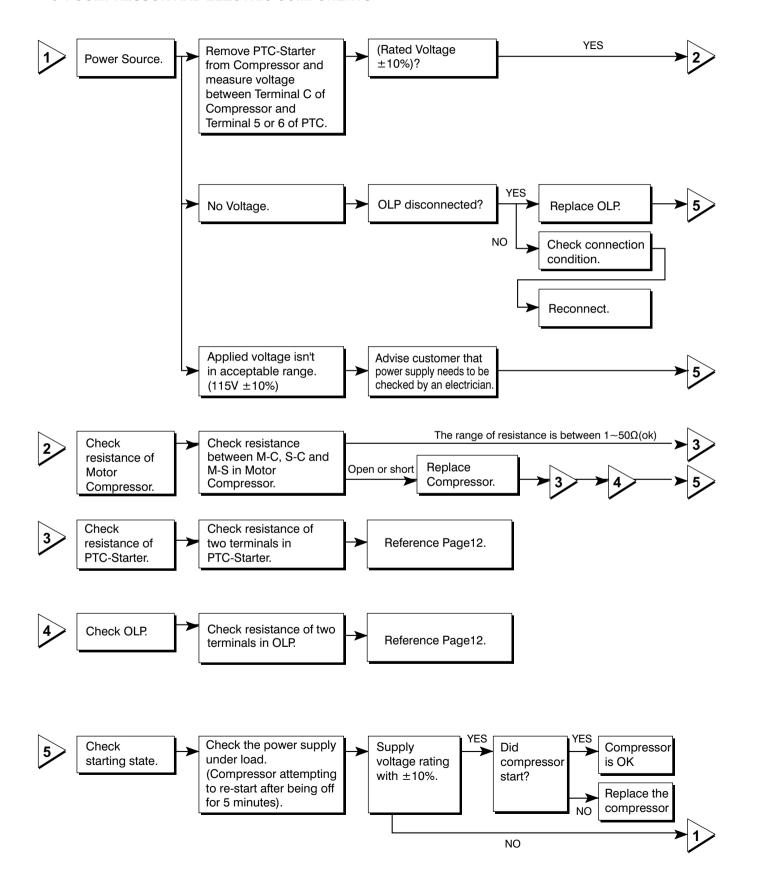
- (4) Use a L-shaped flap tool to pry off the cover.
- (5) Assembly in reverse order of disassembly.

5. CIRCUIT DIAGRAM

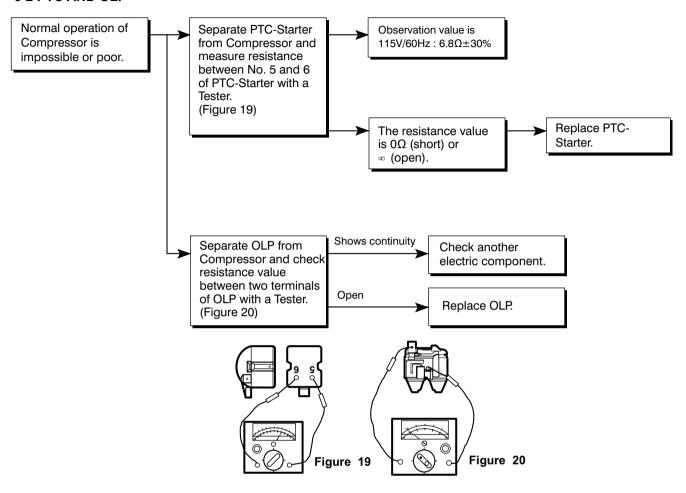


6. TROUBLESHOOTING

6-1 COMPRESSOR AND ELECTRIC COMPONENTS

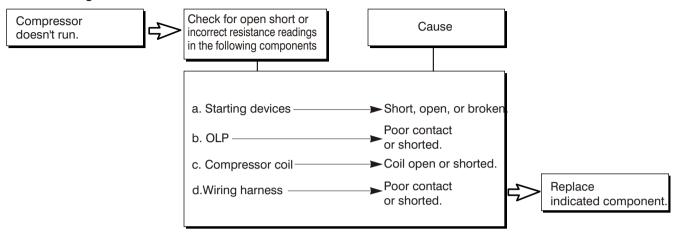


6-2 PTC AND OLP

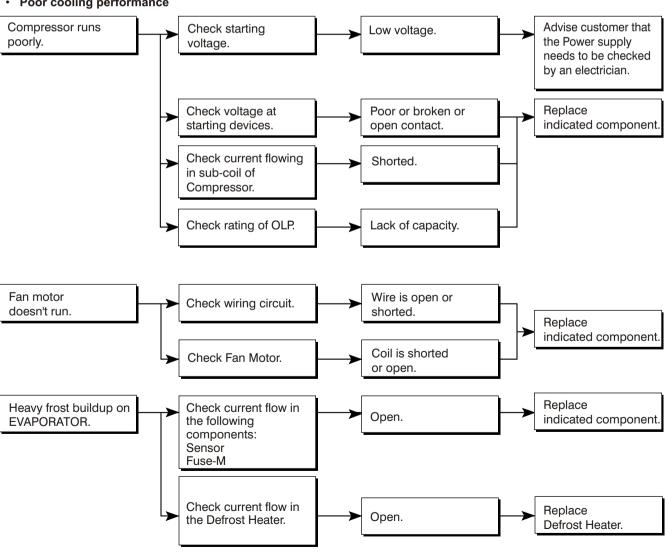


6-3 OTHER ELECTRICAL COMPONENTS

· Not cooling at all



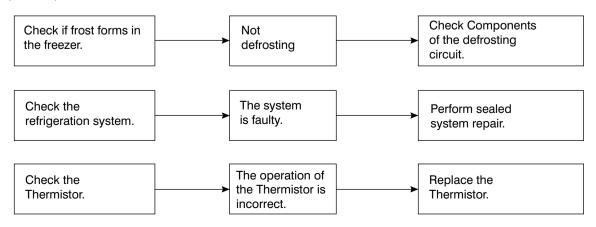
· Poor cooling performance



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 5ºC? 	 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:

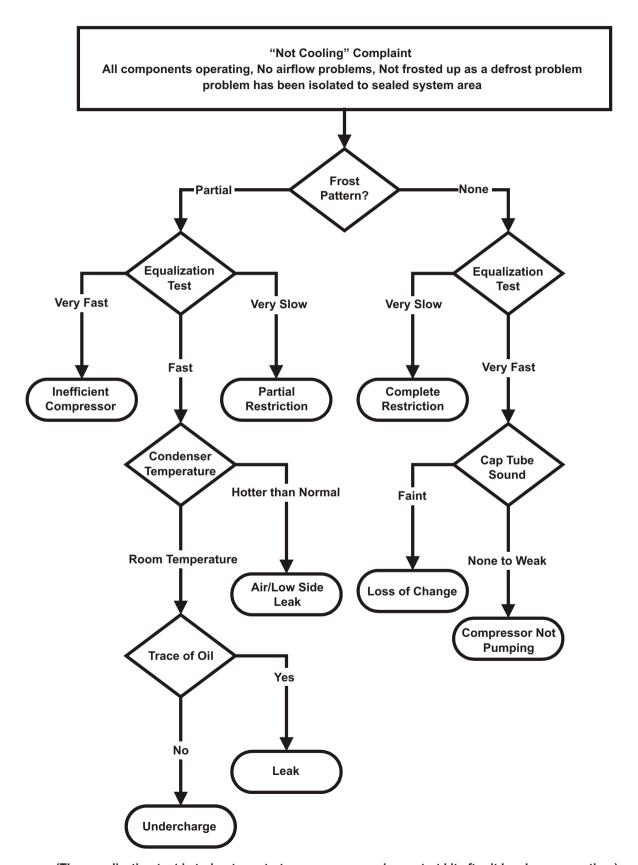


6-5 REFRIGERATION CYCLE

• Troubleshooting Chart

	CAUSE	STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAKAGE	PARTIAL LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	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 Freezer LEAKAGE 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.
CLOGGEDBYDUST	PARTIAL Freezer compartment and Refrigerator don't cool normally.		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 Freezer Florompartment and is Refrigerator don't cool. for		Flowing sound of refrigerant is not heard and frost isn't l. 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 Low flowing sound of RESSION Refrigerator don't cool. Low flowing sound of refrigerant is heard and frost forms in inlet only.		refrigerant is heard and	A little higher than ambient temperature.	Low pressure at high side of compressor due to low refrigerant level.
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

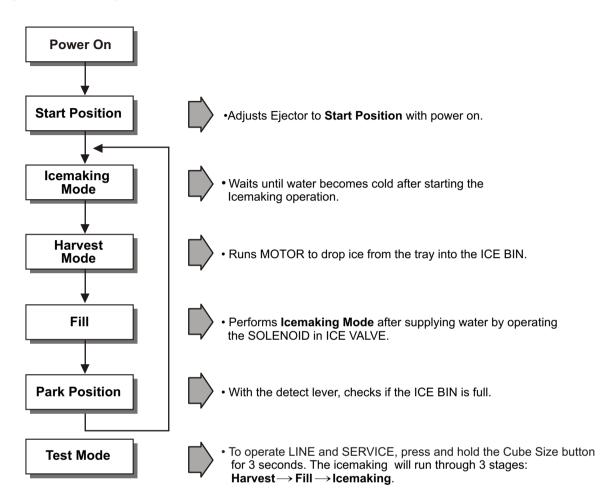


(The equalization test is trying to restart a compressor using a start kit after it has been operating.)

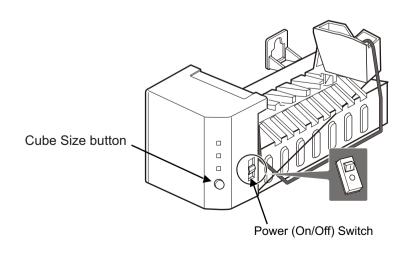
7. OPERATION PRINCIPLE AND REPAIR METHOD OF ICEMAKER

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 ful 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 (2500RPM): Initial power on or load corresponding operation, ICE PLUS. Normal speed (2200 RPM): general working conditions.
- 5. Fan motor is stopped when refrigerator door is opened.
- 6. The fan motor is stopped when freezer door is opened (only if compressor status is OFF).

8-1-3 ICE PLUS

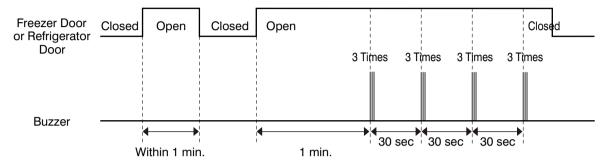
- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
- 3. If there is a power cut and the refrigerator is power on again, ICE PLUS function will be canceled.
- 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 8.2.4 No. 3)

8-1-7 Defrosting (removing frost)

- 1. Defrosting starts each time when compressor running time reach 7 hours, if any door hasn't been opened
- In case of any door has been opened the defrosting period will start considering the next conditions:
 If compressor running time is bigger than 7 hrs when door is opened: Defrosting starts immediately.
 If compressor running time is less than 7 hrs when door is opened: defrosting starts after a compensation time is applied.
- 3. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
- 4. 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 2 hours, the defrost mode is malfunctioning. (Circuit 8.1.9)
- 5. Defrosting wont 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.

	OPERATING ORDERS				
Initial	Temperature of Defrosting Sensor is 45°C or more (when unit is newly purchased or when moved)	POWER in 1/2 second COMP in 1/2 second Freezer FAN ON ON			
ial power on	Temperature of defrosting sensor is lower than 45°C (when power cuts, SERVICE)	POWER in 1/2 second Defrosting in 10 second Defrosting heater ON → heater OFF			
		in 1/2 second COMP in 1/2 second Freezer FAN ON ON			
1	et to normal operation n TEST MODE	Total load in 7 minute COMP in 1/2 second Freezer FAN OFF → ON → ON			

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 defect is repaired the defect code is removed and refrigerator returns to normal operation (RESET)
- 4. The defect code is shown on the Display.



ERROR CODE on display panel



NO	ITEM		E	ERRO	OR C	ODE				CONTENTS	REMARKS
										33.11.2.11.3	
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	© Visi	⊚ ble i	⊚ n LE	• D C	© HEC	•	© ODE	Open or short circuit	
4	Poor of defrost	All off	•	•	•	•	0	0	0	2 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 2 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 65 seg. In operation fan motor.	wires of fan, contact of

DISPLAY CHECK MODE: Press at the same time ADJUST REFRIGERATOR TEMP & ADJUST FREEZER TEMP For more than 1 second. This mode is for LED inspection and ALL LED will turn ON at this time If releasing the buttons, the display will indicate the previous status If there is an RT sensor defect it will be indicated in this mode.

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 	Maximum test time: 5 Minutes
TEST2	Push ICE PLUS key and ADJUST key of Freezer Temperature at the same time over 3 seconds in TEST MODE 1	 COMP OFF Freezer FAN OFF STEPPING DAMPER CLOSE Defrosting heater ON DISPLAY LED 1, 3, 5, 7 ON 	Reset if the temperature of the Defrosting sensor is 46°F (8°C) or more.
Reset			The compressor will Start after a 7-minute delay.

* 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)

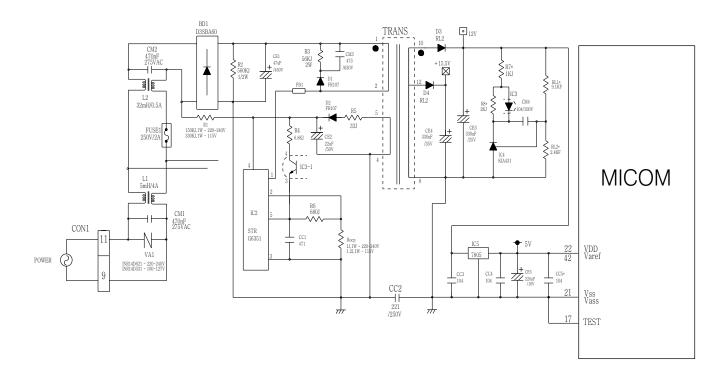
After 30 seconds, it turns to its original RPM.

* 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



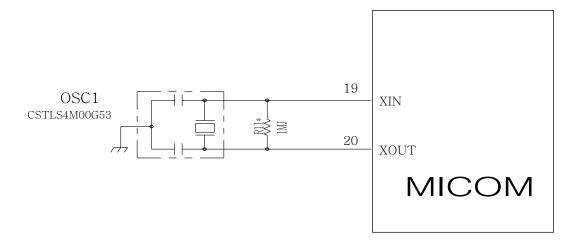
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

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

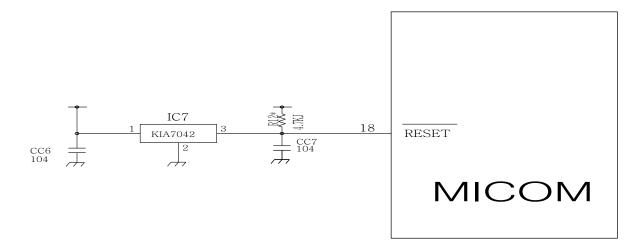
VA1 is a part for preventing over voltage and noise. When higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

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.

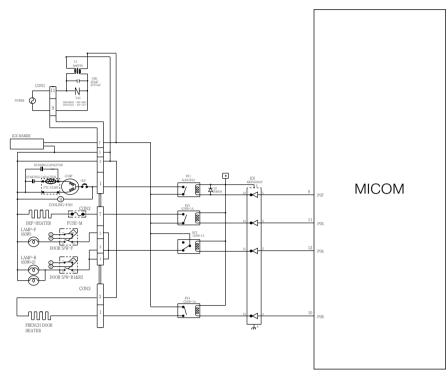
8-2-3 Reset Circuit



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

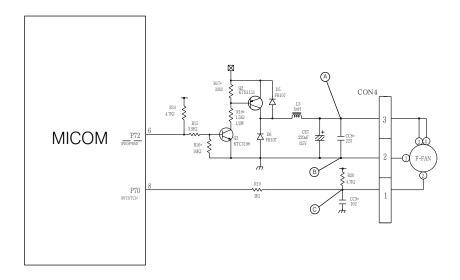
1. Load Drive Condition Check



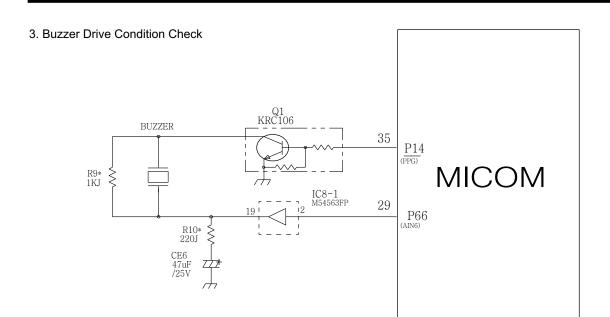
LOAD TYPE		COMP	COMP DEFROSTING HEATER		FRENCH DOOR HEATER 1, 2 / DEW HEATER
Measurement Location (IC6)		NO.12	NO.12 NO.14 NO.15		NO.13
Condition	ON	1V or below			
Condition	OFF			12V	

2. Fan motor driving circuit (freezing compartment fan)

- 1. The circuit makes the motor fan off by cutting off the power supplied to driver inside the Fan Motor when this is necessary
- 2. This is a circuit to perform a temporary change of speed for the fan motor and applies DC voltage up to $7.5V\sim16V$ 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.

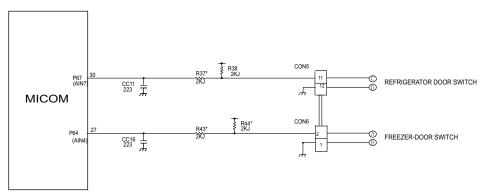


	a part	(b) part	© part
MOTOR OFF	2V or less	0V	5V
MOTOR ON	13V~15V	OV	2V~3V



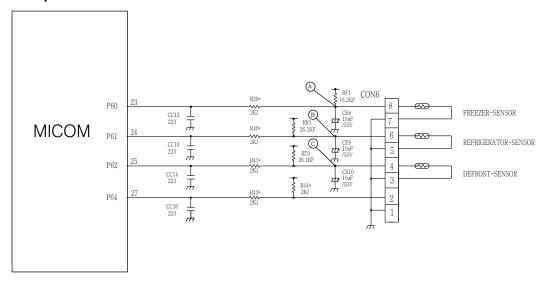
Condition Measure- ment Location	Tone (Ding~Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 ((A)	0.05 s 0.2 s 0.1 s 2 s 0 V	0.5 s 0.5 s 0.7 s	0 V
IC1 (B)	5 V 0 V2.63 kz (Ding~)2.21 kz (Dong~)	5 V 0 V — 2.63 kz(Beep~) OFF	0 V

4. Open Door Detection Circuit Check



Measurement Freezer/ Location Refrigerator Door	Pin No. 1 & 2 (Freezer Door) Pin No. 11 & 12 (Refrigerator Door)
Closed	5 V
Open	0 V

8-2-5 Temperature Sensor Circuit

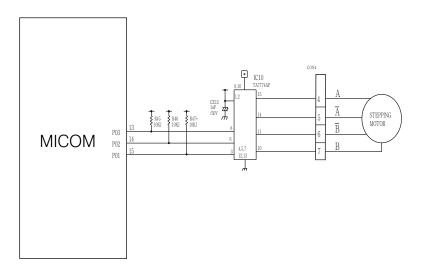


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM. OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

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			

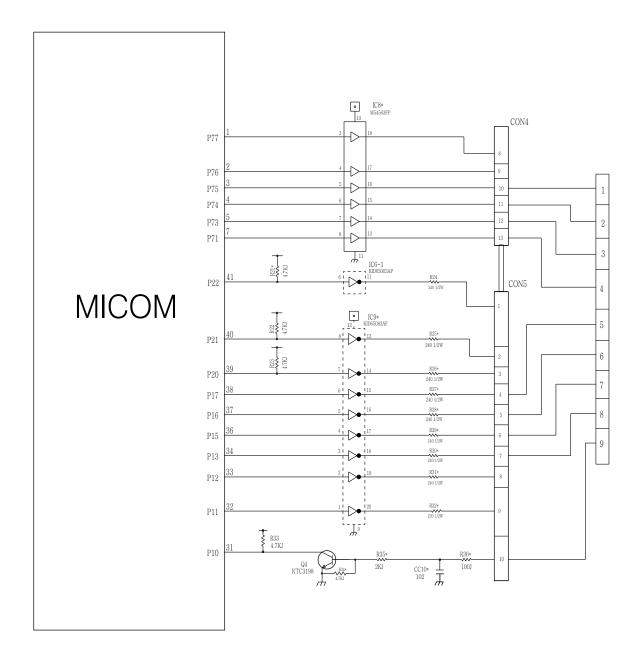
8-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

* 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 K Ω	77 ΚΩ
-15° C	16.9 K Ω	60 K Ω
-10° C	13.0 K Ω	47.3 Κ Ω
- 5° C	10.1 Κ Ω	38.4 Κ Ω
0° C	7.8 Κ Ω	30 K Ω
+ 5° C	6.2 K Ω	24.1 Κ Ω
+ 10° C	4.9 Κ Ω	19.5 Κ Ω
+ 15° C	3.9 Κ Ω	15.9 K Ω
+ 20° C	3.1 Κ Ω	13 Κ Ω
+ 25° C	2.5 Κ Ω	11 Κ Ω
+ 30° C	2.0 Κ Ω	8.9 K Ω
+ 40° C	1.4 Κ Ω	6.2 Κ Ω
+ 50° C	0.8 Κ Ω	4.3 Κ Ω

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

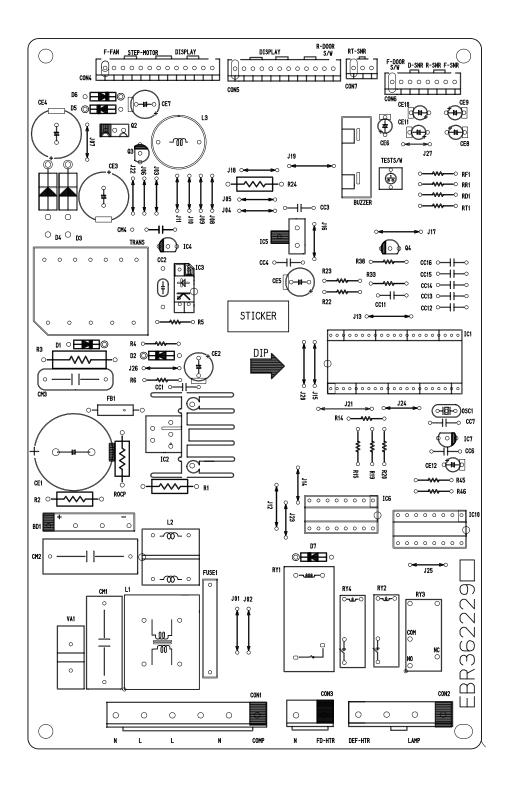
⁻ Measure the resistance of the SENSOR after leaving it for over 3 minutes in the measuring temperature. This delay is necessary due to sensor response speed.

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
POWER SOURCE is poor.	The whole DISPLAY LED/SEVEN SEGMENT DISPLAY's off.	1. FREEZER/ REFRIGERATOR.	Check if FREEZER/ REFRIGERATOR DOOR IS OPEN and check display.	POWER SOURCE is poor.	Check outlet Voltage.
	2. DISPLAY LED/	2. If LAMP is dim.	Check visually.	Applied voltage error.	Use boosting TRANS.
	SEVEN SEGMENT DISPLAY operates	The connection of the MAIN PWB	Check connection of CONNECTOR.	CONNECTOR connection is poor.	Reconnect CONNECTOR.
	abnormally	CONNECTOR.		TRANS FUSE is open.	Replace TRANS.
COOLING is poor.	NO COOLING.	1. 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.
			after compressor shuts off,	COMPRESSOR RELAY is	Replace MAIN PWB.
			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 sticking on EVAPORATOR	Refrigerant leakage.	Replace the leaking part and replace any lost refrigerant.
			and the surface temperature		
	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
		is normal.	sticking on the EVAPORATOR.		is poor
		3. If SENSOR	Check the resistance	SENSOR RESISTANCE is	Replace SENSOR.
		IS normal.	SENSOR.	poor.	
		4. Door Line contact.	Check the seal when the door is closed.	Door liner damaged.	Replace door liner.

PROBLEM	INDICATED BY	СНЕСК	CHECKING METHOD	CAUSE	SOLUTION
COOLING is poor.	If REFRIGERATOR	1.If FREEZER TEMPERATURE	Check is FREEZER		Make sure the
	TEMPERATURE	isn ormal.	TEMPERATURE istoo low.		DOOR isattached.
	is too low.	2. If amount of cool air from	Make sure that the amount	FAN MOTOR is poor.	Replace FAN MOTOR.
		FAN MOTOR is	and speed of cool air are	Passage of cool air	Remove impurities.
		sufficient.	sufficient by touching the	is blocked.	
			check supplied on the	EVA frozen.	See DEFROSTING is poor.
			REFRIGERATOR.		
		3. Door Line contact.	Check door seal when	Door liner damaged.	Replace Door liner.
			uooi is ciosea.		
poor.			(forced DEFROSTING).		
				TEMPERATURE FUSE	Replace TEMPERATURE
				disconnection.	FUSE.
				Connection is poor.	Check EVAPORATOR
					connection and wire of MAIN
					PWB CONNECTOR.
				DEFROST-SENSOR is poor.	Replace DEFROST-SENSOR.
				HEATER RELAY is poor.	Replace RY2 of MAIN PWB
		2. If DRAIN PIPE is	Check DRAIN PIPE.	DRAIN PIPE is blocked.	Remove ice and impurities
		blocked.			Check HEATER PLATE
					resistance.
		3. If ice remains after	Make sure that DEFROST	Connection is poor.	Reassemble the
		DEFROSTING.	SENSOR is connected.		DEFROST-SENSOR.
			Make sure that FREEZER /	DOOR does not close	Reassemble DOOR.
			REFRIGERATOR DOOR is closed.	properly.	Replace GASKET.

8-5 MAIN PWB ASSEMBLY AND PARTS LIST

8-5-1 Main PWB Assembly



1 1	K				
\$ B	§				
BEATOSS-PIT BETTER APPLICATION					
田田 5	1				
Qty No		DESCRIPTION	SPEC	MAKER	REMARK
1 1		PWB(PCB) TRANSPORMER.SMPS(COIL)	DL-PIT 2.9ME/20W	DOO SAN SAM IL	T=1.6 TRANS
1 3	6170JB2012C	TRANSPORMER, SMPS [COIL]	GR-207,BLDC 100V-127V	SAM IL	TRANS
1 6	6630AQ9106C 6630AQ9106A	CONNECTOR (CIRC), WAPER CONNECTOR (CIRC), WAPER CONNECTOR (CIRC), WAPER	YWSS6 YRONEO 11P 3.95MM YWSS6-11AV (11P-2.4.6.2.10) YWSS6-07AV YRONEO 7FIN 3.95MM STRAIGHT SN YWSS6-0AV	YRON HO YBON HO	CONI CONZ
1 1 1 7	ECSULBSOUMY.	CONNECTOR (CIRC), WAFER	SMW260 YBONHO 13P 2.5MM STRAIGHT SN	YBON HO YBON HO	CONS CON4
1 9	6630JB8004L 6630JB8004G	CONNECTOR (CIRC), WAPER CONNECTOR (CIRC), WAPER	SMW250 YBONHO 12P 2.5MM STRAIGHT SN SMW250 YBONHO 8P 2.5MM STRAIGHT SN	YBON HO YBON HO	COME
1 10	OZZJK2002N	CONNECTOR (CIRC), WAPER IC, DRAWING	SMW250 YBONHO 3P 2.5MM STRAIGHT SN TMP87PH46N 42P SDIP BK OTP BRAVO30-PJT BBTTBR	YBON HO TOSHIBA	CON7 IC1
- <u>12</u> - <u>13</u>	OIKB431000A	ECKRC	KIAISI 3 PIN TP	KBC, CHANGIANG	IC4
1 15	OIKB650030B OIKB650830B	IC,RBC	KID6508AF 16P, SDP BK DRIVE IC KID6508AF 16P, SDP BK DRIVE IC KID6508AF 30P SOP ST LED DRIVER(TR ARRAY)	KBC KRC	106
1 17	OIKE704200D OIKE780500W	ECREC ECLINEAR	KIA700P ZI/T 42 REST REC KIA700P	KBC KBC	1C7 1C6
1 19	OUKB780500Z	IC. POWER MANAGEMENT		CHANGIIANG	13
1 1-	OFFICETO09A	IC.POWER MANAGEMENT	PS2661L1-1-V NBC 4P.DIP BK = TLP731F PC-17L1 RODBYSHI 4PIN. DIP BK PPIOTO COUPLER STR-GASGIL SHOME PRIV 1020 ST 1998 1 CSP	KODENSHI SANKEN	102
1 21	OFMGSKOO1A OISTLMIOO1A OITO777400A	IC,STANDARD LOGIC IC,DRAWING	STE-CASEL SAMENE REW LORDS ST SINGS LCEP MISSESSED MITSURSELE 20 RVTP CONVEXET TATTUAP LOSSIE BUT DRIVELS STEEPPING MOTOR	MITSUBISH TOSHIBA	IC8 IC10
1 28	6920000001A 6920/B2005B	RRLAY	ALRISBI2 MATSUSHITA 250VAC 16A 12VDC 1A NO VENTING CSIS-1A-NT OMRON 250VAC 16A 12VDC 1A NO VENTING 8	NAIS OMRON	RYI
1 24		RELAY	DHIU II DRC 250VAC 16A 12VDC 1A VENTING G5NB-1A-B OMRON 250VAC 5A 12VDC 1A NO VENTING	DRC OMRON	RY4
	6920A90002A 6920AQ9054B		ALD112 MATSUSHITA 250VAC 3A 12VDC 1A GSN-1A OMBON 250VAC 3A 12VDC 1A	NAIS OMRON	
1 25	6920JB2003A 6920JB2003D	RELAY	G5N-1A OMRON 250VAC 1.5A 12VDC 1A JAPAN G5NB-1A-B OMRON 250VAC 5A 12VDC 1A NO VENTING	OMBON OMBON	RY2
Ш	6920JB2003R		GSNB-1A-B(CHINA) 250VAC 5A 12VDC 1A NO VENTING	OMBON -	
1 26	6920JB2009B 6212BA3041A	RESCAY RESONATOR, CERAMIC	GESB-14 CMRON 250VAC 5A 12VDC 1C NO VENTING CSTLS4M00G58-A0 4MHZ +/- 0.5% 15pF RADIAL TP MURATA	OMRON MURATA	RY3 OSC1
- 28		VARISTOR VARISTOR	INRIAD621 ILUN UL/YDB BK 630V INRIAD331K IL IN UL/CSAVDE BK	IL JIN, SAM WHA, D	VAI
1 29	6102W5V007A	YARASION	SYC33D-14A TYRI4271	SAM WHA THINKING	VA1
1 80	ODB360000AA	DIODE, RECTIFIERS	DSSBA60 BK SHINDRNGRN - 600V 4A 80A - 10UA	SHINDENGEN	BD1
1 31	ODD400409AC ODR107009AA	DIODR.RECTIFIERS DIODR.RECTIFIERS	RECTINACOA TP FRIOT TP RECTRON DOAL 1000V 1A SOA 500NSEC 5A	DELTA DELTA	D7 D1,D2,D5,D6
2 88	ODRSA00070A OCR105BK638	DIDDE RECTIFIERS CAPACITOR FIXED BLECTROLYTIC	HL2 SANERIBE K NON 4007 2A 40A 50NSBC 10UA (PORMING TYPE) 1UP KMR.RG.YX 50V 0.2 FM5 TP 5 (YXA / SM)	SANKEN SAM WHA.	D3,D4 CR12
4 85	OCR106RK638 OCR227BF638	CAPACITOR PURIO BE ECTROLYTIC CAPACITOR PURIO BE ECTROLYTIC	100F RMG 50V 20% FMS TP 5 (RG YXA / SM) 2200F RMG TYPR 16V 20% FMS TP 5 (RG YXA / SM)	SAM WHA.	CR6-CR11
1 37	OCR2278H638 OCR4768H638	CAPACITOR FIXED BLECTROLYTIC CAPACITOR FIXED BLECTROLYTIC	220UF RMR RG 28Y 20% FM6 TP 5 (YXA / SM) 47UF KMR RG YX 26Y 0.2 FM6 TP 5	SAM WHA.	C87 C86
1 39	OCR226RK638 OCR476ZV6R0	CAPACITOR PERRO RESCIPOLYTIC CAPACITOR PERRO RESCIPOLYTIC	22UF KMG 50V 20% PM5 TP 5 (RG/ YXA / SM) 47UF HB 450V 20% BULK SNAP IN	SAM WHA. SAM WHA.	CR2 CR1
1 41	OCR378H618 OCR337RJ618	CAPACITOR PIRRO BLECTROLYTIC CAPACITOR PIRRO BLECTROLYTIC	330UF RX 26V 20% FL TP 5 530UF RX 36V 20% TP 6 FL	SAM WHA SAM WHA	CBS CB4
2 43	OCK102DK96A OCK1040K949	CAPACITOR PERIO CIRRAMIC(HIGH DELECTRIC) CAPACITOR PERIO CIRRAMIC(High dielectric)	1NF 2012 50V 80%20% R/TP X/R 0.1UF D 50V 80%20% P(V5V) TA52	MURATA SAM WHA	CC9,CC10 CC3,CC4,CC6,CC7
1 46	OCK104DK94A OCK2210RG1A	CAPACITOR FIXED CERAMIC(HIGH DIRLECTRIC) CAPACITOR FIXED CERAMIC(High dielectric)	100NF 2012 50V 30%, -20% R/TP P(V5V) 220PF D 250V 10% -10% B(V5F) R/TP	MURATA SAM WHA	005 002
6 47	OCK2230K949	CAPACITOR FIXED CERAMIC(High dielectric)	22NF 50V Z F TA52	SAM WHA	CC11-CC16
	OCK223DK96A	CAPACITOR FIXED CERAMIC(HIGH DISLECTRIC)	22NF 2012 50V 80%20% R/TP X7R	MURATA	CC8
1 50	0CK223DK96A 0CK4710K519 0CQ1041N509	CAPACITOR FIXED CBRAMIC(High DISLECTRIC) CAPACITOR FIXED CBRAMIC(High dielectric) CAPACITOR FIXED FILM	22NF 2012 50V 20% - 20% R/TP XTR 470P 50V K B TASE 0.1UP D 100V 10% PB TPS	MURATA SAM WHA. HONG MING SAM WHA	
1 60 - 51 1 52	0CK223DK96A 0CK4710K519 0CQ1041N609 0CP4731Y470	CAPACITOR PERRO CERAMICHHEH DIELECTRICO CAPACITOR PERRO CERAMICHHE dielectrico CAPACITOR PERRO PELM CAPACITOR PERRO PELM	22PF 2012 60F 40F - 20% R/TP XTP 470PF 50F K B TASE 0.11UP D 100Y 106 FB TF6 0.047UF D 650V 0.05 BULK MFP NI	MURATA SAM WHA. HONG MING SAM WHA PILKOR	CC8 CC1 CM4
1 60 - 51 1 52 2 53 - 54	0CK223DK36A 0CK4710K519 0CQ1041N609 0CP4731Y470 0CQ47418670 0RD1001G809	CAPACTICE PERSO CREMINICHIEN DESACTRICO CAPACTICE PERSO BRANCOHIIA dislactric) CAPACTICE PERSO PILM CAPACTICE PERSO PILM CAPACTICE PERSO PILM RESISTOR PERSO PILM RESISTOR PERSO PILM	20NF 2012 EVF 50N-2008 EVF XVR 40VEP SEV Y S. TANG. 0.1UE D 100V 105 FE TET 0.4VEP D 105V 105 FE TET 0.4VEP D 105V 105 SEUE MAPP NI 0.4VEP D 20VEV 2008 MAPP NI R 1. C 0.6UE 1/4 V 55 FALS.	MURATTA SAM WHA. HONG MING SAM WHA PILKOR PE KOR SMART	CMI CME
1 49 1 50 - 51 1 52 2 53 - 54 2 55	0CK223DK96A 0CK4710K519 0CQ1041N509 0CP4731Y470 0CQ47418670 0RD10016809 0RD1002G809 0RD2001G809	CAPACTOR PIEZO DEMANCIGIST DESIGNATOR CAPACTOR PIEZO DEMANCIGIST DESIGNATOR CAPACTOR PIEZO DEI M CAPACTOR PIEZO DEI M CAPACTOR PIEZO PIEM CAPACTOR PIEZO PIEM PESSOTOR PIEZO CAPACH PIEM	2002 2003 2005 - 2006 - 2006 - 2017 XTR 400725 2003 2007 500 500 500 500 500 500 400725 1000 1000 1000 500 500 500 500 400725 1000 500 500 500 500 500 400725 1000 500 500 500 500 500 500 400725 1000 500 500 500 500 500 500 400725 1000 500 500 500 500 500 500 500 400725 1000 500 500 500 500 500 500 500 500 5	MODERTA SAM WHA. HONG MING SAM WHA PILKOR PILKOR SMART SMART SMART	C28 CC1 CM4 CM5 CM5 CMC.M2 RM5.RM6 R19,R88
1 49 1 50 - 51 1 52 2 53 - 64 2 55 2 56 1 57 6 58	OCR220R96A OCR4710R519 OC21041N809 OC24741870 OR010016809 OR01002609 OR020016809 OR020016809 OR020016809	CAPACTOR PURD CRAMPACHIGH DRIBLET TRIC. CAPACTOR PURD CRAMPACHIGH distorb) CAPACTOR PURD CRAMPACH Click distorb) CAPACTOR PURD PURD CAPACTOR PURD CAPACH PURD RESETTIR PURD CAPACH PURD CAPACH PURD CAPACH PURD RESETTIR PURD CAPACH PURD CAPA	20NF 2012 GV 50N-20NF 2FF XFR 440FF SP VK B TAB2	MODERTA SAM WHA. SAM WHA. PILKOR PILKOR SMART SMART SMART SMART SMART	CGS CGI CM4 CM5 CMI CMI CMI CMI CMI CMI CMI CMI CMI CMI
1 49 1 50 - 51 1 52 2 53 - 54 2 55 2 56 1 57 5 58	OCR220R96A OCR471R519 OC21041N509 OC24741R570 ORD1001G09 ORD1001G09 ORD2001G09 ORD3001G09 ORD3001G09 ORD5001G09 ORD5001G09 ORD5001G09 ORD5001G09	CAPACTOR PIEZO CRAMACIGIST INSIGETRIC CAPACTOR PIEZO CRAMACIGIST INSIGETRIC CAPACTOR PIEZO CRAMACIGIST INSIGETRIC CAPACTOR PIEZO PIEM CAPACTOR PIEZO PIEM CAPACTOR PIEZO PIEM PIEM PIEM PIEM PIEM PIEM PIEM PIEM	2002 2012 007 00% -2006 207F XTR 4402P 807 X B TABE	MURATA SAM THA. RENG MING SAM THA PLACE PLACE SAME SAME SAME SAME SAME SAME SAME SAM	C33 C31 CM CMS CMS CMCCMS CMCCMS PMS_MM PS_2MS PS_2
1 49 1 50 - 51 1 52 2 53 - 54 2 55 1 57 5 58 1 59 1 60 1 61	OCR2200R36A OCR47710K319 OCQ1041NE09 OCQ47418670 OCQ47418670 ORD1001609 ORD1001609 ORD2001609	CAPACTURE PIEZO DEMANDIGISTA DESESTRACIO CAPACTURE PIEZO DEMANDIGISTA dissectivi CAPACTURE PIEZO DEMANDIGISTA dissectivi CAPACTURE PIEZO PIEM CAPACTURE PIEZO PIEM CAPACTURE PIEZO PIEM DESESTOR PIEZO CARRON PIEM DESESTOR PIEZO PIEM DESESTOR PIEZO PIEM DESESTOR PIEZO PIEM DESESTOR PIEZO PIEZO PIEM DESESTOR PIEM DESESTOR PIEZO PIEM DESESTOR PIEZO PIEM DESESTOR PIEM DES	20NF 2012 GVV 50N-2008 2FF XTR 4FFF ROW K B TABLE OLIVE D LOOP 105 FFL TFS OLIVET D SORY 0.05 FFL MF P NT OLIVET D SORY 0.05 FFL MF P NT OLIVET D SORY 0.05 FFL MF P NT IX COMM 144 WS TABLE IX COMM 144 WS TABLE 22 COMM 144 WS TABLE 23 COMM 144 WS TABLE SORY COMM 144 WS TABLE	MURATA SAM WHA SAM WHA PHAGE SAMS PHAGE SAMST	CCS CCS CMA CMS CMI, CMS PMS, RMS PI PMS PMS, RMS PMS, RM
1 49 1 50 - 51 1 52 2 53 - 64 2 55 2 55 1 57 6 58 1 69 1 60 1 61 1 62 1 63 3 64	OCIC220066A OCIC4701K519 OC21041N509 OC24741877 OC24741877 OS37101609 OS37101	CAPACTOR PIEZO DEMANCIGIEI DESCRETO CAPACTOR PIEZO DEMANCIGIEI DESCRETO CAPACTOR PIEZO DEM CAPACTOR PIEZO DEM CAPACTOR PIEZO DEM CAPACTOR PIEZO DEM DESCRITOR PIEZO DEM DESCRITOR PIEZO DEMONI PIEM DESCRITOR PIEZO CARRON PIEM DESCRITOR PIEM PIEM DESCRITOR PIEM PIEM PIEM PIEM PIEM PIEM PIEM PIEM	20NF 2012 EVF 10NF-2006 EVF XVR 44797 BVF 18 TAB2	MURATA SAM WHA SAM WHA PERGE PERGE SAMAY	CGS CGL CM4 CM8 CM8 CM1.CM2 PM5.R46 P15.P39 P16.P39 P1
1 49 1 50 - 51 1 52 2 53 - 54 2 55 2 55 1 57 6 58 1 59 1 63 3 64 1 63 3 64	OCIC220006A OCIC22006A OCIC47018509	CAPACTOR PIEZO DEMANCIGIEI DIBEATRICO CAPACTOR PIEZO DEMANCIGIE dibeachio) CAPACTOR PIEZO DEMA CAPACTOR PIEZO DEM CAPACTOR PIEZO DEM CAPACTOR PIEZO DEM DESSOTULUE DE CARRON PIEM DESSOTULUE DE CARRON PIEM DESSOTULUE DE CARRON PIEM DESSOTULUE DE CARRON PIEM DESSOTULUE CARRON CARRON PIEM DESSOTULUE CARRON CARRON PIEM DESSOTULUE CARRON CARRON PIEM DESSOTULUE CARRON CARRON CONTROL PIEM DESSOTULUE CARRO	2007 200 2 007 50% -20% 277 YER 40727 297 YER 7 12 72.2	MURATA SAM WHA. RENG MING SAM WHA PRINGR PRINGR SALLEY SAL	CCS CCL CM4 CM3 CM1 CM2 PM5.R46 P11 P39 P14 C30 22/338 P24 P35 P36 P36 P36 P37 P38 P4 P37
1 49 1 50 - 51 1 52 2 53 - 54 2 55 2 55 2 55 1 57 5 58 1 59 1 60 1 63 3 64 1 63 3 64 1 68 9 67 1 69 1 68	OCIC228/USSA (OCIC228/USSA (OCIC228/USSA (OCIC24/USSA) (OC	CAPACTOR PIEZO CRAMPACHIGAT DEBACTERO CAPACTOR PIEZO CRAMPACHICA distancia) CAPACTOR PIEZO DEBA MA CAPACTOR PIEZO DEBA CAPACTOR PIEZO DEBA CAPACTOR PIEZO DEBA CAPACTOR PIEZO DEBA RESETOR PIEZO CARRON PIEM RESETOR PIEM CALAZONOCHEP RESETOR METAL CALAZONOCHEP	200 2 00 1 00 M- 200 8 7 PF XTR 40727 29 YK B 7 Pag2 0.110 D 1000 105 FF YF TS 0.0110 D 1000 105 FF YF TS 0.0110 D 1000 105 FF YF TS 1 C COM 1 W 95 TAB2 1 C COM 1 W 95 TAB2 2 C COM 1 W 95 TAB2 3 C COM 1 W 95 TAB2 5 COM 1 W 95 TAB2 5 COM 1 W 95 TAB2 6 COM 1 W 95 TAB2 1 C COM 1 W 95 TAB2 2 C COM 1 W 95 TAB2 1 C COM 1 W 95 TAB2 2 C COM 1 W 95 TAB2 2 C COM 1 W 95 TAB2 2 C COM 1 W 95 TAB2 3 C COM 1 W 95 TAB2 3 C COM 1 W 95 TAB2 4 C C C C W 1 W 95 TAB2 3 C C C C W 1 W 95 TAB2 3 C C C W 1 W 95 TAB2 3 C C C W 1 W 95 TAB2 4 C C W 1 W 95 TAB2 2 C C W 1 W 95 TAB2 3 C W 1 W 95 TAB2 4 W 1 W 1 W 95 TAB2 4 W 1 W 1 W 95 TAB2 5 W 1 W 1	MURATA SAM WHA SAM WHA PHEOR PHEOR SAMAY S	C23 CG1 CM4 CM6 CM6 CM6 CM7 CM6 CM7 CM6 CM7
1 49 1 50 1 50 1 52 2 58 2 58 2 55 1 57 5 58 1 69 1 61 1 62 1 63 3 64 1 63 3 64 1 65 2 65 2 65 1 67 1 69 1 60 1 60	OCICERIOSA (OCICE	CAPACTOR PIEZO CRAMPO(RICE) INSECTION CAPACTOR PIEZO CRAMPO(RICH delectric) CAPACTOR PIEZO CRAMPO (RICH delectric) CAPACTOR PIEZO (PIEZO CAPACTOR PIEZO (PIEZO CAPACTOR PIEZO (PIEZO CAPACTOR PIEZO	2002 2002 507 50%-20% 2072 YER 40727 297 YER TA TANA2 0.018 D 10097 105 FER TYPE 1.05 CORM 104 F 96 FAM2 25 CORM 104 F 96 FAM2 25 CORM 104 F 96 FAM2 25 CORM 104 F 96 FAM2 26 CORM 104 F 96 FAM2 27 CORM 104 F 96 FAM2 28 CORM 104 F 96 FAM2 29 CORM 104 F 96 FAM2 20 CORM 104 FAM2 20	MURATA SAM WHA KING MING SAM WHA FILKOR FILKOR SALACE SALA	CCS CCL CM4 CM3 CM1. CM2 CM2 CM1. CM2 CM2 CM1. CM2
1 49 1 50 - 51 1 52 2 58 - 54 2 55 1 57 6 88 1 59 1 90 1 63 1 63 8 64 1 65 2 66 9 67 1 68 1 70 1 71 1 72 1 72	0.3223018564. 0.324718619 0.32	CAPACTURE PIEZO DEMANDERIE DIESE TREC. CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEMA CAPACTURE PIEZO PIEM CAPACTURE PIEZO PIEM DESSTOR PIEZO CARRON PIEM DESSTOR DETALO CARR	2008 200 2 007 50% -20% 277 TXR 4072F 297 TX B. TANS2	MURATA SAM WHA. RENG MING SAM WHA PRINGR PRINGR SALLEY SAL	CCS CCL CM4 CM3 CM1. CM2 CM2 CM1. CM2 CM2 CM1. CM2
1 49 1 50 1 50 1 50 1 50 2 58 2 58 2 58 1 57 5 68 1 57 1 60 1 60	OCEANISMS OCHAPISMS OCHAPI	CAPACTOR PIEZO CRAMPO(RESI DESECTRE) CAPACTOR PIEZO CRAMPO(RESI desectivi) CAPACTOR PIEZO CRAMPO (RESI desectivi) CAPACTOR PIEZO PIEZO CAPACTOR PIEZO PIEZO CAPACTOR PIEZO PIEZO CAPACTOR PIEZO PIEZO CAPACTOR PIEZO CAPACTOR PIEZ PESSTOR PIEZO CAPACTOR PIEZO PIEZO PESSTOR PIEZO CAPACTOR PIEZO	20NF 2012 EVEN NA - 20NF 20TF TYR 40TF 20TF X B TABLE OLIVE D LOOY LOS FELL MAPP NI OLATTE D 25TF 0.05 FELL MAPP NI S COMM 14 W 95 TABLE S SC COMM 14 W 95 TABLE OLATTE D 25TF 0.05 FELL MAPP NI OLATTE D 25TF 0.05 FEL	MURATA SAM THA, RENG MING SAM THA PRING SAM THA PRING SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	CC3 CC1 CM4 CM3 CM3 CM4 CM4 CM5 CM4
1 49 1 500 - 51 1 60 2 55 2 55 2 55 2 55 2 55 2 55 1 59 1 60 1 61 1 62 1 63 1 63 1 64 1 64 1 64 1 64 1 71 1 65 2 65 2 65 2 70 1 64 1 64 1 71 1 72 1 73 1 73 1 73 1 73 1 73 1 73 1 74 1 75 1 75 1 75 1 75 1 75 1 75 1 75 1 75	OCEANISMS OCIA/19(51) OCIA/19(CAPACTOR PIEZO CRAMPO (GIRT INSECTION) CAPACTOR PIEZO CRAMPO (GIRT INSECTION) CAPACTOR PIEZO CRAMPO (GIRT INSECTION) CAPACTOR PIEZO (GIRT INSECTION) CAPACTOR PIEZO (GIRT INSECTION) PI	20NF 2012 EVEN NA - 20NF 2017 TATE 40TP 2017 IN THE TABLE 0.110P D. 100P 105 FEX THE 1.00F 11D D. 100P 100P 100P 100P 100P 100P 100P 100	MURATA SAM THA, RENG MING SAM THA PLACE PLACE SAME SAME SAME SAME SAME SAME SAME SAM	CC3 CC1 CM4 CM3 CM3 CM4 CM5 M6.5M6 P15.588 P15
1 49 1 500 - 51 1 600 - 51 1 62 2 55 2 55 2 55 2 55 2 55 1 60 1 61 1 62 1 63 3 64 1 69 1 60 1 61 1 77 1 78 1 77 1 78 1 78 1 78	OCEANISM OCE	CAPACTURE PIEZO DEMANDERIS I DESESTREO CAPACTURE PIEZO DEMANDERIS dissocirio CAPACTURE PIEZO DEMANDERIS dissocirio CAPACTURE PIEZO DEIM CAPACTURE PIEZO PIEM CAPACTURE PIEZO PIEM DESESTREO CARRON PIEM RESISTURE PIEZO CARRON PIEM RESISTURE PIETO CARRON PIE	2007 200 200 500 500 200 207 278 40727 207 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	MURATA SAM WHA SAM WHA FEED FEED FEED SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	CC3 CC1 CM4 CM3 CM3 CM1.CM2 M6.5.M6 P15.588 P16.588 P17.588 P18.588 P
1 49 1 50 - 51 1 52 2 53 2 53 2 53 2 55 2 55 2 55 2 55 3 55 1 57 5 58 1 60 1 62 1 62 1 62 1 62 1 62 1 62 1 62 1 77 1 78 1 78	OCEANISMS OCEANISMS OCICIONISMS OCICIONISM	CAPACTURE PIEZO DEMANDERISCH DESCENTRE) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO PIEM CAPACTURE PIEZO PIEM CAPACTURE PIEZO PIEM RESSETURE PIEZO CARRON PIEM RESSETURE PIETO	2007 2012 EV SM-2008 EVTP TYR 40727 EV TS E T NAS 0.1102 D 1007 105 FS TTS 0.0112 D 1007 105 FS TTS 1.0 CHELL PL SSY 0.05 FS TTS 1.0 CHELL PL SSY 0.05 FS TTS 1.0 CHELL PL SSY 0.05 FS TS SS 1.0 CHELL PL SSY 0.05 FS TS SS 1.0 CHELL PL SSY 0.05 FS TS SS 2.0 CHELL PL SS TS SS 3.0 CHELL PL SS TS SS 3.0 CHELL PL SS TS SS 3.0 CHELL PL SS TS SS 4.0 CHELL PL SS TS SS 5.0 CHELL PL SS TS SS 5.0 CHELL PL SS TS SS 6.0 CHELL PL SS TS SS 1.0 CHELL PL SS TS SS 1.0 CHELL PL SS S	MURATA SAM WHA SAM WHA SAM WHA PELOR PELOR SAMAY ROBM ROBM ROBM ROBM ROBM ROBM ROBM ROBM	C23 C31 C34
1 9 9 9 9 9 1 1 7 7 7 7 7 7 7 1 7 7 7 1 7 7 9 1 1 7 7 9 1 1 7 7 7 7	OCEANISM OCE	CAPACTURE PIEZO DEMANDERISCH DESCENTRE) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH DEMANDERISCH PIEZO CAPACTURE PIEZO CAPACH PIEM DESSTOR PIETO DESTAL CAPACH PIEM DESSTOR PIETO DESTAL CAPACH PIEM DESSTOR PIETO DESTAL CAUGH PIEM DESSTOR PIETO DESTAL C	2007 200 2 07 506 -200 8 277 278	MURATA SAM WHA SAM WHA PRIOR PRIOR PRIOR SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	C23 C31 C44 C46 C46 C46 C47 C46 C47
1	OCEANISMS OCIACIONISMS OCIACION	CAPACTURE PIEZO DEMANDERIE DIESE TREC. CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEMANDERIE DEMANDE	2007 2012 EV DN. 2008 2077 TXR 40727 SPY T, R. TANG. 0.1102 D.1007 105 FF T. TER 0.01102 D.1007 105 FF T. TER 0.01102 D.1007 105 FF T. TER 1.0 CHILL H. A. TER T.	MURATA SAM THA, RENG MING SAM THA PRUSE SAM THA SAMT SAMT SAMT SAMT SAMT SAMT SAMT SAM	C33 C31 C34 C48 C48 C48 C40 C48 C40 C48 C40 C48 C40 C48 C40
1	OCESSISSISSISSISSISSISSISSISSISSISSISSISSI	CAPACTOR PIEZO CRAMPO(REST DESECTEDE) CAPACTOR PIEZO CRAMPO(REST desected) CAPACTOR PIEZO CRAMPO (REST desected) CAPACTOR PIEZO CRAMPO (REST DESECTED C	200° 200 2 00° 50° 200° 20° 20° 20° 20° 20° 20° 20° 20°	MURATA SAM WHA SAM WHA PRIOR PRIOR PRIOR SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	C33 CG1 CM CM3 CM3 CM3 CMCM2 BM6,BM6 E19,283 E16 E16,283 E16 BM E18,E17,E18 E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E17,E18 E18,E18,E18 E18,E18 E18,E18,E18 E18,E18,E18 E18,E18,E
1	OCEANISM (1981) OCIONISM (1981)	CAPACTURE PIEZO DEMANDERIE DIESE TREC CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEMANDERIE diesectic) CAPACTURE PIEZO DEIM CAPACTURE PIEZO DEIM CAPACTURE PIEZO DEIM RESETURE PIEZO CARRON PIEM RESETURE PIETO CARRON PIEM RESETURE PIEM	2007 2012 EV DN. 2008 2079 TYR 40727 297 YR B. TANG2 0.110 D. 1000 105 FR TYP 0.0110 D. 1000 105 FR TYP 10 CHILD D. 1000 105 FR TYP 11 CHILD D. 1000 105 FR TYP 11 CHILD D. 1000 105 FR TYP 11 CHILD D. 1000 105 FR TYP 12 CHILD D. 1000 105 FR TYP 13 CHILD D. 1000 105 FR TYP 14 CHILD D. 1000 105 FR TYP 15 CHILD D. 1000 105 FR TYP 16 CHILD D. 1000 105 FR TYP 16 CHILD D. 1000 105 FR TYP 17 CHILD D. 1000 105 FR TYP 20 CHILD D. 1000 105 FR T	MURATA SAM THA. RENG MING SAM THA. RENG MING SAM THA PRIZES SAMPT	CC3 CC4 CC4 CC4 CC4 CC4 CC4 CC4 CC4 CC4
1	OCEANISMS OCIACIONS OCIACI	CAPACTURE PIEZO DEMANDERISCH DESCENTRE CAPACTURE PIEZO DEMANDERISCH dissection CAPACTURE PIEZO DEMANDERISCH dissection CAPACTURE PIEZO DEMANDERISCH dissection CAPACTURE PIEZO PIEZO CAPACTURE PIEZO PIEZO CAPACTURE PIEZO PIEZO CAPACTURE DESCRIPTOR PIEZO CAPACTO PIEZO RESSTUR, PIEZO CAPACTO PIEZO CAPACTO RESSTUR, PIEZO CAPACTO PIEZO CAPACTO RESSTUR, PIEZO CAPACTO PIEZ	2007 2012 EV SN. 2018 2017 EV TX 40727 EV TX E TYNE	MURATA SAM THA, RENG MING SAM THA, RENG MING SAM THA PRICES SAME SAME SAME SAME SAME SAME SAME SA	C33 CG1 CG1 CG2 CG2 CG3 CG1 CG4 CG2 CG2 CG2 CG3 CG2 CG3
1	OCESSISSA OCESSISSA OCIONISSISSA OCIONISSIS OCIONI	CAPACTURE PIEZO DEMANDERISCH DESCENTRE CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH dissectio) CAPACTURE PIEZO DEMANDERISCH	2007 2012 EV DN. 2008 2077 TYR 40727 297 YR JR 71022 0.1102 D.1007 105 FR TTE 0.01102 D.1007 105 FR TTE 1.0 CHE D.1007 105 FR TTE 2.0 CHE D.1007 105 FR TTE 3.0 CHE D.1007 105 FR TTE 3.0 CHE D.1007 105 FR TTE 5.0 CHE D.1007 105 FR	MURATA SAM WHA SAM WHA SAM WHA PRIOR PRIOR SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	C23 C31 C34
1	OCESSISSISSISSISSISSISSISSISSISSISSISSISSI	CAPACTOR PIEZO CRAMPACHERI DEREZ TREC CAPACTOR PIEZO CRAMPACHERI delectric) CAPACTOR PIEZO DEL CAPACHERI delectric) CAPACTOR PIEZO DEL CAPACHERI DEL CAPA	2007 2012 EV SN. 2018 2017 TYR 40727 297 YR JR 71022 0.1107 D 1007 105 FRY TR 0.1107 D 1007 105 FRY TR 10 CHE JR 7105 FRY TR 10 CHE JR 7105 SHE JR 100 SHE JR 10	MURATA SAM THA, RENG MINES SAM THA, RENG MINES SAM THA PRICES PRICES SAMPT S	CGS CGI CM CMS CMC CMS
1 1 90 97 97 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OCESSISSAM	CAPACTURE PIEZO DEMANDERISET INSECTION CAPACTURE PIEZO DEMANDERISET INSECTION CAPACTURE PIEZO DEMANDERISET INSECTION CAPACTURE PIEZO DEMANDERISET INSECTION CAPACTURE PIEZO DEMANDERISET CAPACTURE PIEZO DEMANDERISET DESTOR PIEZO CARRON PIEM PRESETUR PIETO CARRON PIEM PRESETUR PIEM PIEM CARRON PIEM PRESETUR PIEM CARRON PIEM	2007 2012 EVEN SA 2008 2017 TAX 40727 297 TK R 27 No.2 0.110 D 1007 105 FEY TEX 0.110 D 1007 105 FEY TEX 1.1 CHEM 107 105 FEY TEX 1.2 CHEM 107 105 FEY TEX 2.1 CHEM 107 105 FEY TEX 3.2 CHEM 107 105 FEY TEX 3.2 CHEM 107 105 FEY TEX 3.3 CHEM 107 105 FEY TEX 5.3 CHEM 107	MURATA SAM THA, RENG MINE SAM THA, RENG MINE SAM THA PRICE PRICE SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAM	CC3 CC1 CC4 CC4 CC4 CC4 CC4 CC4 CC4 CC4 CC4
1	OCEANISMS OCITATION OCITAT	CAPACTOR PIEDO CRAMPORTER DESCRIPCO CAPACTOR PIEDO CRAMPORTER diseascirio CAPACTOR PIEDO CRAMPORTER diseascirio CAPACTOR PIEDO CRAMPORTER diseascirio CAPACTOR PIEDO CRAMPORTER CAPACTOR PIEDO CRAMPORTE	2007 2012 EVEN No. 2006 2017 TOTAL 40727 2017 TO SETY COS PUT TO THE 40727 2017 TO SETY COS PUT TO SETY COS	MURATA SAM WHA SAM WHA SAM WHA PRESS PRESS SAMY SAMY SAMY SAMY SAMY SAMY SAMY SA	C33 C31 C34
1	OCEANISMS OCEANI	CAPACTURE PIEDO CRAMPACHER I DERES TREC. CAPACTURE PIEDO CRAMPACHER distanció CAPACTURE PIEDO CRAMPACHER distanció CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM RESETURE PIEDO CARRON PIEM RESETURE PIETO CARRON PIEM RESETURE PIEM CARRON CORRON PIEM RESETURE	2007 2012 EV SN. 2018 2017 TX 4072 EV ST S. T. NAS 0.110 D.1007 105 FS TTS 0.110 D.1007 105 FS TTS 1.100 EV ST ST ST NAS 1.100 EV ST ST ST NAS 1.100 EV ST ST ST NAS 1.100 EV ST NAS 1.10	MURATA SAM THA, RENG MINE SAM THA, RENG MINE SAM THA PRICE PRICE SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAM	CC3 CC1 CC4 CC4 CC4 CC4 CC4 CC4 CC4 CC4 CC4
1	OCEANISMS OCEANI	CAPACTURE PIEDO CRAMPACHER INSERT PIEC CAPACTURE PIEDO CRAMPACHER dissertio) CAPACTURE PIEDO CRAMPACHER dissertio) CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO CARDON PIEM CAPACTURE PIEMO CARDON CIEMP CARDON CARDON CONTROL CARDON CIEMP CARDON CARDON CONTROL CAR	2001 201 201 201 201 201 201 201 201 201	MURATA SAM WHA SAM WHA PRIOR PRIOR PRIOR SAMWHA PRIOR PRIOR SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	CCS
1	OCESSISSISSA OCESSISSA OC	CAPACTURE PIEDO CRAMPACHER INSERT PIEC CAPACTURE PIEDO CRAMPACHER dissertio) CAPACTURE PIEDO CRAMPACHER dissertio) CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO CARDON PIEM CAPACTURE PIEMO CARDON CIEMP CARDON CARDON CONTROL CARDON CIEMP CARDON CARDON CONTROL CAR	2001 201 201 201 201 201 201 201 201 201	MURATA SAM WHA SAM WHA PRIOR PRIOR PRIOR SAMWHA PRIOR PRIOR SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	CCS
1 9 9 9 9 9 9 9 9 1 1 1 1 1 1 1 1 1 1 1	OCEANISMS OCEANISMS OCIONISMS OCIONI	CAPACTURE PIEDO CRAMPACHER INSERT PIEC CAPACTURE PIEDO CRAMPACHER dissertio) CAPACTURE PIEDO CRAMPACHER dissertio) CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO PIEM CAPACTURE PIEDO CARDON PIEM CAPACTURE PIEMO CARDON CIEMP CARDON CARDON CONTROL CARDON CIEMP CARDON CARDON CONTROL CAR	2001 201 201 201 201 201 201 201 201 201	MURATA SAM WHA SAM WHA PRIOR PRIOR PRIOR SAMWHA PRIOR PRIOR SAMY SAMY SAMY SAMY SAMY SAMY SAMY SAMY	CGS CG1 CGH CGS CG1 CGH CGS CG1 CGH CGS CG1

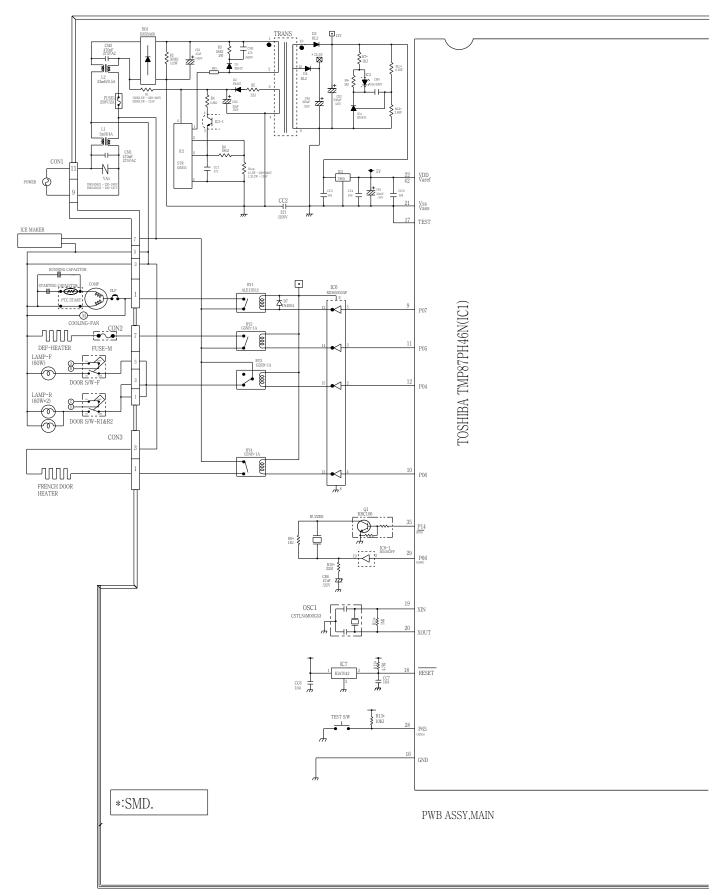
8-5-3 PWB Assembly, Display and parts list

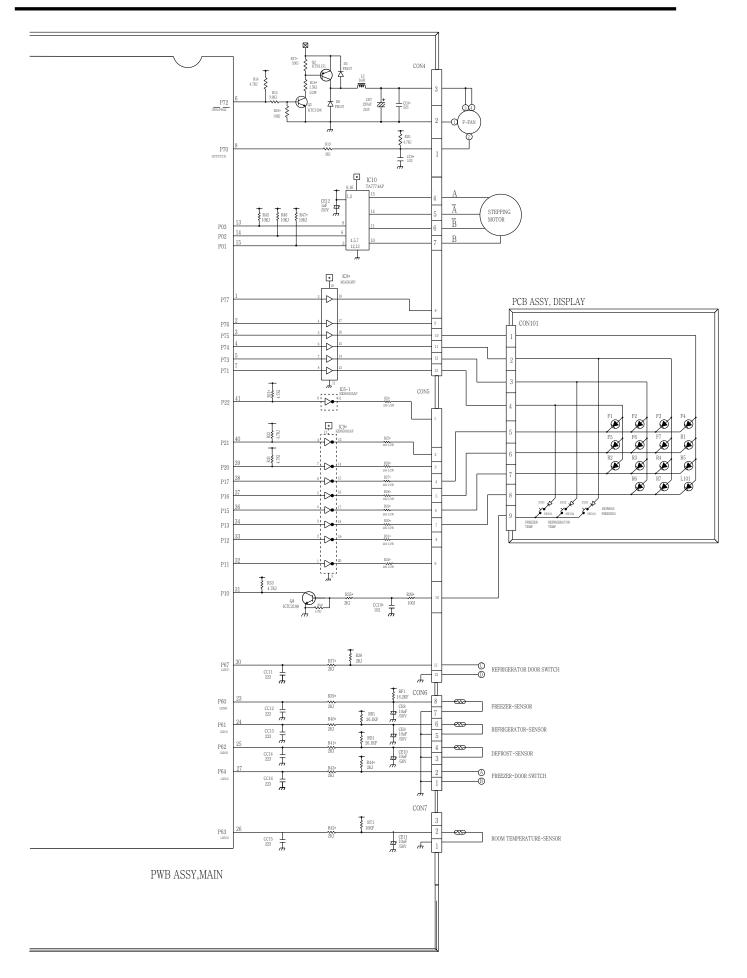


Qty	No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	1	6870JB8091A	PWB(PCB)	KS-PJT GOOD/BETTER DISPLAY	DOO SAN	t=1.6
	2					
1	3	6630AQ9159H	WAFER	SMAW250-09	YEON HO	C0N101
	4					
2	5	6600RRT002K	SWITCH,TACT	JTP1230A JEIL 12V DC 50MA	JEIL	SW101,102
		6600JB8005A	1	KPT-1105A	KYUNG IN	
1	6	-	TACT S/W	KPT-1109G	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		49111004	SOLDER, SOLDERING	H63A	_	-
0,000	14	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KUKI	-

8-6 PWB DIAGRAM

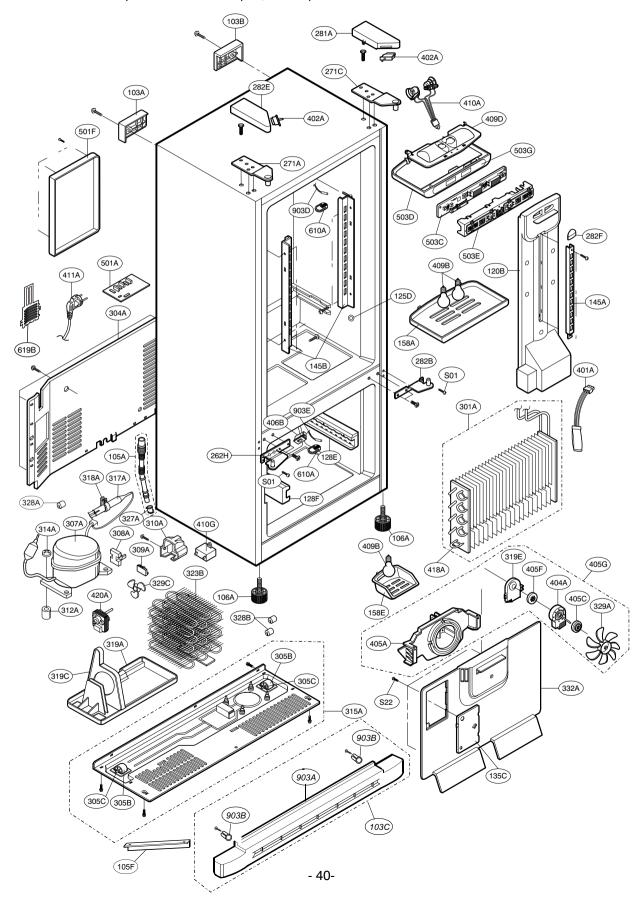
8-6-1 PWB Main Assembly



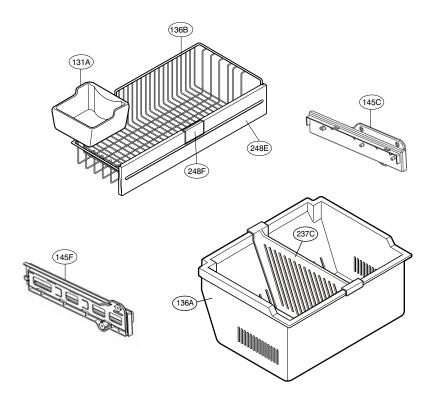


9. EXPLODED VIEW & REPLACEMENT PARTS LIST

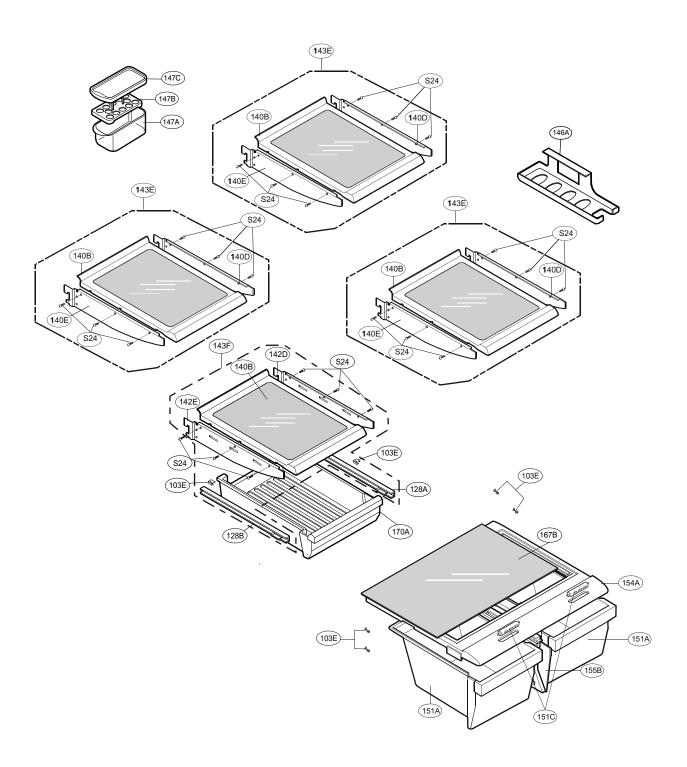
CASE PARTS



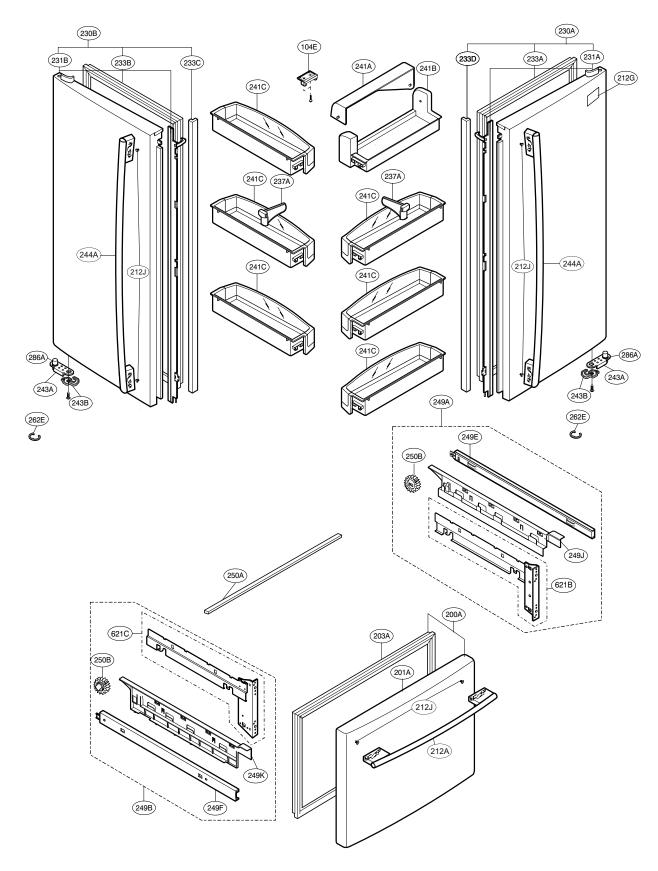
FREEZER PARTS



REFRIGERATOR PARTS

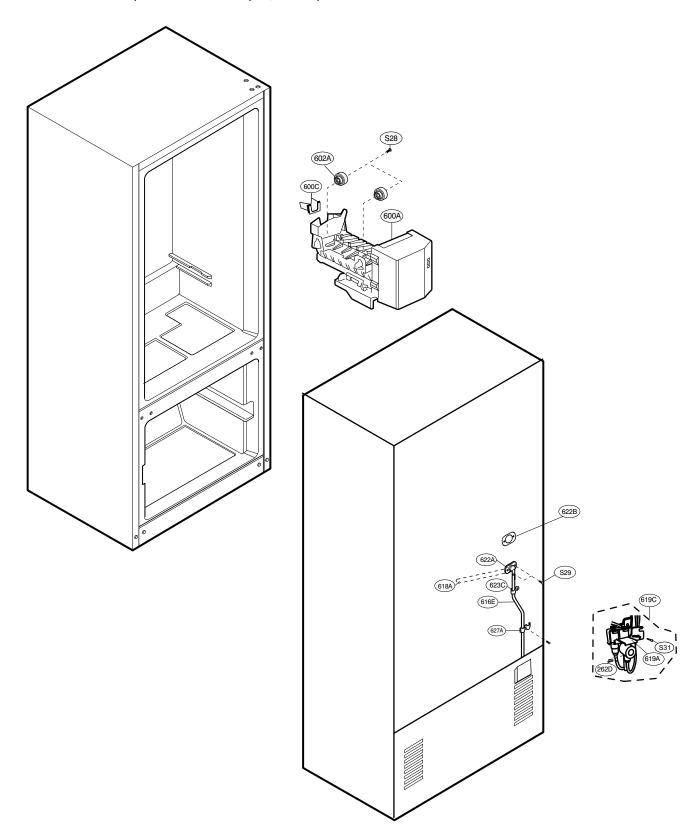


DOOR PARTS



^{*} Only on some models

WATER and ICE MAKER PARTS



LFC22740SB

	LFC22740SB						
Loc No	Part No.	Description	Loc No	Part No.	Description		
103A		HANDLE,REAR	271A				
	3650JJ2003M			4775JJ2018B	Hinge Assembly, Upper		
103B	3650JJ2003L	HANDLE,REAR	271C	4775JJ2018A	Hinge Assembly, Upper		
103C	3551JJ1015F	Cover Assembly, Lower	281A	3551JJ1018B	COVER ASSEMBLY, HINGE		
103E	5218JJ3001A	Rail,Slide	282B	4775JJ2019C	HINGE ASSEMBLY, CENTER		
104E	4931JJ3002A	HOLDER ASSEMBLY, GASKET	282E	3551JJ1018E	COVER ASSEMBLY, HINGE		
105A	5251JA3003B	Tube Assembly, Drain	282F	3806JL2006F	Decor, Duct		
105F		Skirt,Lower	286A		BUSH		
	5070JJ3002A			4984JJ3003A			
106A	4779JA2003A	Leg Assembly,Adjust	301A	5421JJ1001B	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	305C	4J04238A	Pin,Common		
128B	4975JJ2002B	Guide Assembly,Rail	307A	TCA30119901	Compressor, Set Assembly		
					•		
128E	4930JJ1025B	Holder,Rail	308A	6749CR0008D	Thermistor Assembly, PTC		
128F	4930JJ1025A	Holder,Rail	309A	6750C-0005P	OVERLOAD PROTECT		
131A	5074JJ1055A	BUCKET,ICE	310A	3550JA2042C	Cover,PTC		
135C	3550JJ2030A	Cover,Grille Fan	312A	5040JA3031A	DAMPER,COMPRESSOR		
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	314A	4620JA3009A	STOPPER, COMPRESSOR		
136B	3390JJ1090A	Tray, Drawer	315A	3103JJ1001J	BASE ASSEMBLY, COMPRESSOR		
			317A				
140B	5027JJ2007B	SHELF ASSEMBLY, REFRIGERATOR		5851JJ2002D	Drier Assembly		
140D	5026JJ2001G	Shelf,Net	318A	4930JA3034A	Holder, Drier		
140E	5026JJ2001H	Shelf,Net	319A	3390JJ0003A	TRAY,DRIP		
142D	5026JJ2001L	Shelf,Net	319C	4974JJ1009A	Guide,Fan		
142E	5026JJ2001M	Shelf,Net	319E	4810JJ2005A	Bracket, Motor		
143E	5027JJ1008B	SHELF ASSEMBLY, REFRIGERATOR	323B	5403JJ1007A	CONDENSER ASSEMBLY, WIRE		
143F	5027JJ1008D	SHELF ASSEMBLY, REFRIGERATOR	327A	5006JA3034A	CAP,DRAIN TUBE		
145A	4930JJ2003A	Holder,Shelf	328A	4J03020A	DAMPER,PIPE		
145B	4930JJ2004A	Holder,Shelf	328B	4J04328A	DAMPER,PIPE		
145C	4975JJ2028C	Guide Assembly,Rail	329A	5901JJ1005A	FAN ASSEMBLY		
145F	4975JJ2028D	Guide Assembly,Rail	329C	5901JJ1004B	FAN ASSEMBLY		
		•					
146A	5047JJ1001A	Case,Lower	332A	3531JJ1004A	GRILLE ASSEMBLY, FAN		
147A	5074JJ1005A	BUCKET, DAIRY	401A	6615JB2005C	Controller Assembly, Circuit		
147B	3390JJ1014A	TRAY,EGG	402A	6600JB3007E	Switch,Push Button		
147C	3550JJ1017A	Cover,Bucket	404A	4681JK1004A	AC Motor		
151A	3391JJ1020C	TRAY ASSEMBLY, VEGETABLE	405A	4811JJ2002A	BRACKET ASSEMBLY, MOTOR		
151C	4940JJ2003C	KNOB,SHUTTER	405C	5040JA2009B	DAMPER, MOTOR SUPPORT		
154A	3550JL1006C	Cover,TV	405F	5040JA2004B	DAMPER, MOTOR SUPPORT		
155B	4981JJ2001B	SUPPORTER ASSEMBLY, COVER TV	405G	4811JJ2002H	BRACKET ASSEMBLY,MOTOR		
158A	3550JJ1040A	Cover,Lamp	406B	6600JB1004A	Switch,Push Button		
158E	MCK30060901	Cover,Lamp	409B	6912JK2002C	LAMP, INCANDESCENT		
167B	4890JL1002H	SHELF, GLASS	409D	3034JJ1002B	REFLECTOR, LAMP		
170A	3391JJ2004H	Tray Assembly, Meat	410A	6621JK2002D	Drawing, Assembly		
200A	3581JJ8721P	Door Assembly, Freezer	410G	OCZZJB2012J	Capacitor, Electric Appliance Film, Box		
201A	5433JJ0125L	Door Foam Assembly,Freezer	411A	6411JK1006A	Power Cord Assembly		
203A	4987JJ1004E	GASKET ASSEMBLY, DOOR	418A	5300JB1100J	Heater,Sheath		
212A	3651JA1033M	Handle Assembly, Freezer	420A	4680JK1001B	Motor,AC		
212G	3846JD1007D	Name Plate	501A	EBR36222901	PCB Assembly,Main		
			501F				
212J	4620JJ3007B	STOPPER,HANDLE		3550JJ1105A	Cover,PCB		
230A	3581JJ8056T	Door Assembly, Refrigerator (Right	•	6871JB2047A	PCB ASSEMBLY, DISPLAY		
230B	3581JJ8055P	Door Assembly, Refrigerator (Left)	503D	3110JJ1005A	Case, Display		
231A	5433JJ0063Q	Door Foam Assembly, Refrigerato	r 503E	3550JJ2031A	Cover, Display		
231B	5433JJ0061T	Door Foam Assembly, Refrigerato	r 503G	3806JL1049A	Decor,Control		
233A	4987JJ2003F	GASKET ASSEMBLY, DOOR	600A		Ice Maker Assembly, Kit		
				5989JA0002N			
233B	4987JJ2003H	GASKET ASSEMBLY, DOOR	600C	MEA32865501	Guide, Tube		
233C	3551JJ2034B	COVER ASSEMBLY, FRONT	602A	4931JA3005B	Holder Assembly, Bracket		
233D	3551JJ2034A	COVER ASSEMBLY, FRONT	610A	3550JJ2020A	Cover, Sensor		
237A	4974JJ2017A	GUIDE, PITCHER	616E	5210JA3005N	Tube,Plastic		
237C	4974JJ1021A	GUIDE, DRAWER	618A	5210JJ3005B	TUBE,INJECT		
241A	3550JL2006A	Cover,Tray	619A	5220JA2009D	Valve, Water		
241B	5074JJ1019A	Bucket, Dairy	619B	3550JJ2024A	Cover, Valve		
241C	5005JJ2022A	BASKET ASSEMBLY,DOOR	619C	5221JA2008G	VALVE ASSEMBLY, WATER		
243A	4620JJ3006C	Stopper,Door	621B	ACJ30147004	Connector Assembly		
243B	4620JJ2009A	Stopper, Door	621C	ACJ30147003	Connector Assembly		
244A	3651JA1023V	Handle Assembly, Freezer	622A	5040JA2015A	RUBBER,INJECT		
248E	3806JJ1048A	Decor,Tray	622B	4810JA3036A	Bracket,Cover		
248F	3806JL2011A	DECOR,TRAY	623C	4770JA3001A	Band		
249A	5098JJ1002B	CONNECTOR ASSEMBLY	627A	4930JA3054A	Holder,Pipe		
249B	5098JJ1002A	CONNECTOR ASSEMBLY	903A	3550JJ0006C	Cover,Lower		
249E	5218JA1010E	Rail,Slide	903B	4930JJ2021A	Holder,Cover(Lower)		
249F	5218JA1010F	Rail,Slide	903D	6500JK1003A	SENSOR		
249 J	3550JJ1111A	Cover, Connector	903E	6500JK1004A	Sensor		
249K	3550JJ1111B	Cover, Connector	S01	1SZZJJ3010A	Screw, Customized		
250A	4270JJ3001E	Bar	\$22	J471-00001J	Screw, Customized		
250B	4403JJ3001A	CONNECTOR ASSEMBLY	\$24	1SZZJA3011B	Screw, Customized		
262D	4004JA3002A	CLIP	S28	1SZZJJ3005E	Screw, Customized		
262E	4350JA3005B	Ring	S29	4J00415D	Screw, Customized		
262H	4775JJ2019D	HINGE ASSEMBLY, CENTER	\$31	4000W4A003A	Screw,Customized		

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Loc No.	Part No.	Description	Loc No.	Part No.	Description	
103A	3650JJ2003H	HANDLE,REAR	271A	4775JJ2018B	Hinge Assembly, Upper	
103B	3650JJ2003D	HANDLE,REAR	271C	4775JJ2018A	Hinge Assembly, Upper	
103C	3551JJ1015H	COVER ASSEMBLY,LOWER	281A	3551JJ1018C	COVER ASSEMBLY, HINGE	
103E	5218JJ3001A	Rail,Slide	282B	4775JJ2019E	HINGE ASSEMBLY, CENTER	
104E	4931JJ3002A	HOLDER ASSEMBLY, GASKET	282E	3551JJ1018F	COVER ASSEMBLY, HINGE	
105A	5251JA3003B	Tube Assembly, Drain	282F	3806JL2006F	Decor, Duct	
105A 105F		•	286A			
	5070JJ3002A	Skirt,Lower		4984JJ3003A	BUSH	
106A	4779JA2003A	- · · · · · · · · · · · · · · · · · · ·	301A	5421JJ1001B	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	305C	4J04238A	Pin,Common	
128B	4975JJ2002B	Guide Assembly,Rail		TCA30119901	Compressor,Set Assembly	
128E	4930JJ1025B	Holder,Rail	308A	6749CR0008D	Thermistor Assembly,PTC	
128F	4930JJ1025A	Holder,Rail	309A	6750C-0005P	OVERLOAD PROTECT	
131A	5074JJ1055A	BUCKET,ICE	310A	3550JA2042C	Cover,PTC	
135C	3550JJ2030A	Cover,Grille Fan	312A	5040JA3031A	DAMPER,COMPRESSOR	
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	314A	4620JA3009A	STOPPER, COMPRESSOR	
136B	3390JJ1090A	Tray,Drawer	315A	3103JJ1001J	BASE ASSEMBLY, COMPRESSOR	
140B	5027JJ2007B	SHELF ASSEMBLY, REFRIGERATOR	317A	5851JJ2002D	Drier Assembly	
140D	5026JJ2001G	Shelf,Net	318A	4930JA3034A	Holder, Drier	
140E	5026JJ2001H	Shelf,Net	319A	3390JJ0003A	TRAY,DRIP	
142D	5026JJ2001L	Shelf,Net	319C	4974JJ1009A	Guide, Fan	
142E	5026JJ2001M		319E	4810JJ2005A	Bracket, Motor	
143E	5027JJ1008B	SHELF ASSEMBLY, REFRIGERATOR	323B	5403JJ1007A	CONDENSER ASSEMBLY, WIRE	
143E			323B 327A			
	5027JJ1008D	SHELF ASSEMBLY, REFRIGERATOR		5006JA3034A	CAP,DRAIN TUBE	
145A	4930JJ2003A	Holder,Shelf	328A	4J03020A	DAMPER,PIPE	
145B	4930JJ2004A	Holder,Shelf	328B	4J04328A	DAMPER,PIPE	
145C	4975JJ2028C	Guide Assembly,Rail	329A	5901JJ1005A	FAN ASSEMBLY	
145F	4975JJ2028D	Guide Assembly,Rail	329C	5901JJ1004B	FAN ASSEMBLY	
146A	5047JJ1001A	Case,Lower	332A	3531JJ1004A	GRILLE ASSEMBLY,FAN	
147A	5074JJ1005A	BUCKET, DAIRY	401A	6615JB2005C	Controller Assembly, Circuit	
147B	3390JJ1014A	TRAY,EGG	402A	6600JB3007B	Switch,Push Button	
147C	3550JJ1017A	Cover, Bucket	404A	4681JK1004A	AC Motor	
151A	3391JJ1020C	TRAY ASSEMBLY, VEGETABLE	405A	4811JJ2002A	BRACKET ASSEMBLY, MOTOR	
151C	4940JJ2003C	KNOB,SHUTTER	405C	5040JA2009B	DAMPER, MOTOR SUPPORT	
154A	3550JL1006C	Cover,TV	405F	5040JA2004B	DAMPER, MOTOR SUPPORT	
155B	4981JJ2001B	SUPPORTER ASSEMBLY, COVER TV	405G	4811JJ2002H	BRACKET ASSEMBLY, MOTOR	
158A	3550JJ1040A	Cover,Lamp	406B	6600JB1004A	Switch, Push Button	
158E	MCK30060901		409B	6912JK2002C	LAMP,INCANDESCENT	
167B	4890JL1002H	SHELF, GLASS	407B	3034JJ1002B	REFLECTOR, LAMP	
170A	3391JJ2004H	Tray Assembly, Meat	410A	6621JK2002D	Drawing, Assembly	
200A	3581JJ8721Q	Door Assembly, Freezer	410G	OCZZJB2012J	Capacitor, Electric Appliance Film, Box	
201A	5433JJ0022W	DOOR FOAM ASSEMBLY,FREEZER		6411JK1006A	Power Cord Assembly	
203A	4987JJ1004A	GASKET ASSEMBLY, DOOR	418A		Heater,Sheath	
212A	3651JA1033L	Handle Assembly,Freezer	420A	4680JK1001B	Motor,AC	
212G	3846JD1007E	Name Plate	501A	EBR36222901	PCB Assembly,Main	
212J	4620JJ3007B	STOPPER,HANDLE	501F	3550JJ1105A	Cover,PCB	
230A	3581JJ8056U	Door Assembly, Refrigerator (Right)	503C	6871JB2047A	PCB ASSEMBLY, DISPLAY	
230B	3581JJ8055Q	Door Assembly, Refrigerator (Left)	503D	3110JJ1005A	Case, Display	
231A	5433JJ0063R	Door Foam Assembly, Refrigerator	503E	3550JJ2031A	Cover, Display	
231B	5433JJ0061U	Door Foam Assembly, Refrigerator	503G	3806JL1049A	Decor,Control	
233A	4987JJ2003E	GASKET ASSEMBLY, DOOR	600A	5989JA0002N	Ice Maker Assembly,Kit	
233B	4987JJ2003G	GASKET ASSEMBLY, DOOR	600C	MEA32865501	Guide, Tube	
233C	3551JJ2034B	COVER ASSEMBLY, FRONT	602A	4931JA3005B	Holder Assembly, Bracket	
233D	3551JJ2034A	COVER ASSEMBLY, FRONT	610A	3550JJ2020A	Cover,Sensor	
237A	4974JJ2017A	GUIDE, PITCHER	616E	5210JA3005N	Tube, Plastic	
237C	4974JJ1021A	GUIDE, DRAWER	618A	5210JJ3005B	TUBE,INJECT	
241A	3550JL2006A	Cover,Tray	619A	5220JA2009D	Valve, Water	
241B	5074JJ1019A	Bucket, Dairy	619B	3550JJ2024A	Cover, Valve	
241C	5005JJ2022A	BASKET ASSEMBLY, DOOR	619C	5221JA2008G		
243A	4620JJ3006D	Stopper,Door	621B	ACJ30147004	Connector Assembly	
243B	4620JJ2009A	Stopper, Door	621C	ACJ30147003	Connector Assembly	
244A	3651JA1023W	•	622A	5040JA2015A	RUBBER,INJECT	
248E	3806JJ1048A	Decor,Tray	622B	4810JA3036A	Bracket,Cover	
248F	3806JL2011A	DECOR,TRAY	623C	4770JA3001A	Band	
249A	5098JJ1002B	CONNECTOR ASSEMBLY	627A	4930JA3054A	Holder,Pipe	
249B	5098JJ1002A	CONNECTOR ASSEMBLY	903A	3550JJ0006D	Cover,Lower	
249E	5218JA1010E	Rail,Slide	903B	4930JJ2021A	Holder,Cover(Lower)	
249F	5218JA1010F	Rail,Slide	903D	6500JK1003A	SENSOR	
249J	3550JJ1111A	Cover, Connector	903E	6500JK1004A	Sensor	
249K	3550JJ1111B	Cover, Connector	S01	1SZZJJ3010A	Screw, Customized	
250A	4270JJ3001E	Bar	\$22	J471-00001J	Screw, Customized	
250B	4403JJ3001A	CONNECTOR ASSEMBLY	S24	1SZZJA3011B	Screw, Customized	
262D	4004JA3002A	CLIP	S28	1SZZJJ3005E	Screw, Customized	
262E	4350JA3005B	Ring	S29	4J00415D	Screw, Customized	
262E 262H	4775JJ2019F	HINGE ASSEMBLY, CENTER	329 S31		Screw, Customized Screw, Customized	
∠0∠⊓	+//JJJZU17F	THINGE ASSLINIDET, CLINIER	ડ ડા	7000114A003A	JCTCW,CUSTOTTIZEU	

LFC22740ST

			LFC22740ST		
Loc No.	Part No.	Description	Loc No.	Part No.	Description
103A	3650JJ2003M	HANDLE,REAR	271A	4775JJ2018B	Hinge Assembly, Upper
103B	3650JJ2003L	HANDLE,REAR	271C	4775JJ2018A	Hinge Assembly, Upper
103C	3551JJ1015F	Cover Assembly,Lower	281A	3551JJ1018B	COVER ASSEMBLY, HINGE
103E	5218JJ3001A	Rail,Slide	282B	4775JJ2019C	HINGE ASSEMBLY, CENTER
104E	4931JJ3002A	HOLDER ASSEMBLY, GASKET	282E	3551JJ1018E	COVER ASSEMBLY, HINGE
105A	5251JA3003B	Tube Assembly,Drain	282F	3806JL2006F	Decor,Duct
105F	5070JJ3002A	Skirt,Lower	286A	4984JJ3003A	BUSH
106A	4779JA2003A	Leg Assembly, Adjust	301A	5421JJ1001B	Evaporator Assembly
120B	5209JJ1002A	DUCT ASSEMBLY, MULTI	304A	3551JJ2008B	Cover Assembly, Machinery (Rear)
125D		Holder, Bracket			
	4930JJ3007A		305B	4580JJ3001A	Roller
128A	4975JJ2002A	Guide Assembly,Rail	305C	4J04238A	Pin,Common
128B	4975JJ2002B	Guide Assembly,Rail	307A	TCA30119901	Compressor,Set Assembly
128E	4930JJ1025B	Holder,Rail	308A	6749CR0008D	Thermistor Assembly,PTC
128F	4930JJ1025A	Holder,Rail	309A	6750C-0005P	OVERLOAD PROTECT
131A	5074JJ1055A	BUCKET,ICE	310A	3550JA2042C	Cover,PTC
135C	3550JJ2030A	Cover,Grille Fan	312A	5040JA3031A	DAMPER, COMPRESSOR
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	314A	4620JA3009A	STOPPER, COMPRESSOR
136B	3390JJ1090A	Tray, Drawer	315A	3103JJ1001J	BASE ASSEMBLY, COMPRESSOR
140B	5027JJ2007B	SHELF ASSEMBLY, REFRIGERATOR	317A	5851JJ2002D	Drier Assembly
140D	5026JJ2001G	Shelf,Net	318A	4930JA3034A	Holder, Drier
140E	5026JJ2001H	Shelf,Net	319A	3390JJ0003A	TRAY, DRIP
142D	5026JJ2001L	Shelf,Net	319C	4974JJ1009A	Guide,Fan
142E	5026JJ2001M	Shelf,Net	319E	4810JJ2005A	Bracket, Motor
143E	5027JJ1008B	SHELF ASSEMBLY, REFRIGERATOR	323B	5403JJ1007A	CONDENSER ASSEMBLY, WIRE
143E			327A		
	5027JJ1008D	SHELF ASSEMBLY, REFRIGERATOR		5006JA3034A	CAP, DRAIN TUBE
145A	4930JJ2003A	Holder,Shelf	328A	4J03020A	DAMPER,PIPE
145B	4930JJ2004A	Holder,Shelf	328B	4J04328A	DAMPER,PIPE
145C	4975JJ2028C	Guide Assembly,Rail	329A	5901JJ1005A	FAN ASSEMBLY
145F	4975JJ2028D	Guide Assembly,Rail	329C	5901JJ1004B	FAN ASSEMBLY
146A	5047JJ1001A	Case,Lower	332A	3531JJ1004A	GRILLE ASSEMBLY, FAN
147A	5074JJ1005A	BUCKET, DAIRY	401A	6615JB2005C	Controller Assembly, Circuit
			402A		•
147B	3390JJ1014A	TRAY,EGG		6600JB3007E	Switch, Push Button
147C	3550JJ1017A	Cover, Bucket	404A	4681JK1004A	AC Motor
151A	3391JJ1020C	TRAY ASSEMBLY, VEGETABLE	405A	4811JJ2002A	BRACKET ASSEMBLY, MOTOR
151C	4940JJ2003C	KNOB,SHUTTER	405C	5040JA2009B	DAMPER,MOTOR SUPPORT
154A	3550JL1006C	Cover,TV	405F	5040JA2004B	DAMPER,MOTOR SUPPORT
155B	4981JJ2001B	SUPPORTER ASSEMBLY, COVER TV	405G	4811JJ2002H	BRACKET ASSEMBLY, MOTOR
158A	3550JJ1040A	Cover,Lamp	406B	6600JB1004A	Switch, Push Button
158E		·	409B		
	MCK30060901	•		6912JK2002C	LAMP, INCANDESCENT
167B	4890JL1002H	SHELF, GLASS	409D	3034JJ1002B	REFLECTOR, LAMP
170A	3391JJ2004H	Tray Assembly,Meat	410A	6621JK2002D	Drawing, Assembly
200A	3581JJ8721R	Door Assembly,Freezer	410G	OCZZJB2012J	Capacitor, Electric Appliance Film, Box
201A	5433JJ0022M	Door Foam Assembly, Freezer	411A	6411JK1006A	Power Cord Assembly
203A	4987JJ1004E	GASKET ASSEMBLY, DOOR	418A	5300JB1100J	Heater,Sheath
212A		Handle Assembly, Freezer		4680JK1001B	Motor.AC
212G	3846JD1007E	Name Plate	501A	EBR36222901	PCB Assembly, Main
					•
212J	4620JJ3007B	STOPPER,HANDLE	501F	3550JJ1105A	Cover,PCB
230A	3581JJ8056V	Door Assembly,Refrigerator(Right	,	6871JB2047A	PCB ASSEMBLY, DISPLAY
230B	3581JJ8055R	Door Assembly, Refrigerator (Left)	503D	3110JJ1005A	Case, Display
231A	5433JJ0063S	Door Foam Assembly, Refrigerato	r 503E	3550JJ2031A	Cover, Display
231B	5433JJ0061V	Door Foam Assembly, Refrigerato	r 503G	3806JL1049A	Decor,Control
233A	4987JJ2003F	GASKET ASSEMBLY, DOOR	600A	5989JA0002N	Ice Maker Assembly, Kit
233B	4987JJ2003H	GASKET ASSEMBLY,DOOR	600C	MEA32865501	Guide,Tube
233C	3551JJ2034B		602A	4931JA3005B	
		COVER ASSEMBLY, FRONT			Holder Assembly, Bracket
233D	3551JJ2034A	COVER ASSEMBLY, FRONT	610A	3550JJ2020A	Cover, Sensor
237A	4974JJ2017A	GUIDE,PITCHER	616E	5210JA3005N	Tube,Plastic
237C	4974JJ1021A	GUIDE, DRAWER	618A	5210JJ3005B	TUBE,INJECT
241A	3550JL2006A	Cover,Tray	619A	5220JA2009D	Valve,Water
241B	5074JJ1019A	Bucket, Dairy	619B	3550JJ2024A	Cover, Valve
241C	5005JJ2022A	BASKET ASSEMBLY, DOOR	619C	5221JA2008G	VALVE ASSEMBLY, WATER
243A	4620JJ3006C	Stopper, Door	621B	ACJ30147004	Connector Assembly
243B	4620JJ2009A	Stopper, Door	621C	ACJ30147003	Connector Assembly
244A	3651JA1023U	Handle Assembly, Freezer	622A	5040JA2015A	RUBBER,INJECT
248E	3806JJ1048A	Decor,Tray	622B	4810JA3036A	Bracket,Cover
248F	3806JL2011A	DECOR,TRAY	623C	4770JA3001A	Band
249A	5098JJ1002B	CONNECTOR ASSEMBLY	627A	4930JA3054A	Holder,Pipe
249B	5098JJ1002A	CONNECTOR ASSEMBLY	903A	3550JJ0006C	Cover,Lower
249E	5218JA1010E	Rail,Slide	903B	4930JJ2021A	Holder,Cover(Lower)
249E 249F	5218JA1010F	Rail,Slide	903D	6500JK1003A	SENSOR
249J			903E		
	3550JJ1111A	Cover, Connector		6500JK1004A	Sensor
249K	3550JJ1111B	Cover, Connector	S01	1SZZJJ3010A	Screw, Customized
250A	4270JJ3001E	Bar	\$22	J471-00001J	Screw, Customized
250B	4403JJ3001A	CONNECTOR ASSEMBLY	\$24	1SZZJA3011B	Screw, Customized
262D	4004JA3002A	CLIP	\$28	1SZZJJ3005E	Screw,Customized
262E	4350JA3005B	Ring	S29	4J00415D	Screw, Customized
262H	4775JJ2019D	HINGE ASSEMBLY, CENTER	\$31		Screw, Customized
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LFC22740SW						
Loc No.	Part No.	Description	Loc No.	Part No.	Description	
103A	3650JJ2003E	HANDLE,REAR	271A	4775JJ2018B	Hinge Assembly, Upper	
103B	3650JJ2003A	HANDLE,REAR	271C	4775JJ2018A	Hinge Assembly, Upper	
103C	3551JJ1015B	Cover Assembly,Lower	281A	3551JJ1018A	COVER ASSEMBLY, HINGE	
103E	5218JJ3001A	Rail,Slide	282B	4775JJ2019A	HINGE ASSEMBLY, CENTER	
104E	4931JJ3002A	HOLDER ASSEMBLY, GASKET	282E	3551JJ1018D	COVER ASSEMBLY, HINGE	
105A	5251JA3003B	Tube Assembly, Drain	282F	3806JL2006F	Decor, Duct	
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105F	5070JJ3002A	Skirt,Lower	286A	4984JJ3003A	BUSH	
106A	4779JA2003A	Leg Assembly, Adjust	301A	5421JJ1001B	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	305C	4J04238A	Pin,Common	
128B	4975JJ2002B	Guide Assembly,Rail	307A	TCA30119901	Compressor,Set Assembly	
128E	4930JJ1025B	Holder,Rail	308A	6749CR0008D	Thermistor Assembly,PTC	
128F	4930JJ1025A	Holder,Rail	309A	6750C-0005P	OVERLOAD PROTECT	
131A	5074JJ1055A	BUCKET,ICE	310A	3550JA2042C	Cover,PTC	
135C	3550JJ2030A	Cover,Grille Fan	312A	5040JA3031A	DAMPER, COMPRESSOR	
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	314A	4620JA3009A	STOPPER, COMPRESSOR	
136B	3390JJ1090A	Tray,Drawer	315A	3103JJ1001J	BASE ASSEMBLY, COMPRESSOR	
140B	5027JJ2007B	SHELF ASSEMBLY, REFRIGERATOR	317A	5851JJ2002D	Drier Assembly	
140D	5026JJ2001G	Shelf,Net	318A	4930JA3034A	Holder, Drier	
140E	5026JJ2001H	Shelf,Net	319A	3390JJ0003A	TRAY,DRIP	
142D	5026JJ2001L	Shelf,Net	319C	4974JJ1009A	Guide,Fan	
142E	5026JJ2001M	Shelf,Net	319E	4810JJ2005A	Bracket, Motor	
143E	5027JJ1008B	SHELF ASSEMBLY, REFRIGERATOR	323B	5403JJ1007A	CONDENSER ASSEMBLY, WIRE	
143E	5027JJ1008D		327A			
		SHELF ASSEMBLY, REFRIGERATOR		5006JA3034A	CAP,DRAIN TUBE	
145A	4930JJ2003A	Holder,Shelf	328A	4J03020A	DAMPER,PIPE	
145B	4930JJ2004A	Holder,Shelf	328B	4J04328A	DAMPER,PIPE	
145C	4975JJ2028C	Guide Assembly, Rail	329A	5901JJ1005A	FAN ASSEMBLY	
145F	4975JJ2028D	Guide Assembly,Rail	329C	5901JJ1004B	FAN ASSEMBLY	
146A	5047JJ1001A	Case,Lower	332A	3531JJ1004A	GRILLE ASSEMBLY, FAN	
147A	5074JJ1005A	BUCKET, DAIRY	401A	6615JB2005C	Controller Assembly, Circuit	
147B	3390JJ1014A	TRAY,EGG	402A	6600JB3007A	Switch,Push Button	
147C	3550JJ1017A	Cover,Bucket	404A	4681JK1004A	AC Motor	
151A	3391JJ1020C	TRAY ASSEMBLY, VEGETABLE	405A	4811JJ2002A	BRACKET ASSEMBLY, MOTOR	
151C	4940JJ2003C	KNOB,SHUTTER	405C	5040JA2009B	DAMPER, MOTOR SUPPORT	
154A	3550JL1006C	Cover,TV	405F	5040JA2004B	DAMPER, MOTOR SUPPORT	
155B	4981JJ2001B	SUPPORTER ASSEMBLY, COVER TV	405G	4811JJ2002H	BRACKET ASSEMBLY, MOTOR	
158A	3550JJ1040A	Cover,Lamp	406B	6600JB1004A	Switch, Push Button	
158E	MCK30060901	•	409B	6912JK2002C	LAMP,INCANDESCENT	
167B	4890JL1002H	SHELF, GLASS	409D	3034JJ1002B	REFLECTOR, LAMP	
170A	3391JJ2004H	Tray Assembly, Meat	410A	6621JK2002D	Drawing, Assembly	
200A	3581JJ8721N	Door Assembly, Freezer	410G	00ZTJR2002D 0CZZJB2012J	Capacitor, Electric Appliance Film, Box	
200A 201A		Door Foam Assembly, Freezer	411A		Power Cord Assembly	
	5433JJ0125K	, ,		6411JK1006A 5300JB1100J	Heater,Sheath	
203A	4987JJ1004A		418A			
212A	3651JA1033K	Handle Assembly, Freezer	420A	4680JK1001B	Motor,AC	
212G	3846JD1007B	Name Plate	501A	EBR36222901	PCB Assembly, Main	
212J	4620JJ3007B	STOPPER, HANDLE	501F	3550JJ1105A	Cover,PCB	
230A	3581JJ8056S	Door Assembly, Refrigerator (Right)		6871JB2047A	PCB ASSEMBLY, DISPLAY	
230B	3581JJ8055N	Door Assembly, Refrigerator (Left)	503D	3110JJ1005A	Case, Display	
231A	5433JJ0063P	Door Foam Assembly, Refrigerator		3550JJ2031A	Cover, Display	
231B	5433JJ0061S	Door Foam Assembly, Refrigerator	503G	3806JL1049A	Decor,Control	
233A	4987JJ2003E	GASKET ASSEMBLY, DOOR	600A	5989JA0002N	Ice Maker Assembly,Kit	
233B	4987JJ2003G	GASKET ASSEMBLY, DOOR	600C	MEA32865501	Guide,Tube	
233C	3551JJ2034B	COVER ASSEMBLY, FRONT	602A	4931JA3005B	Holder Assembly, Bracket	
233D	3551JJ2034A	COVER ASSEMBLY, FRONT	610A	3550JJ2020A	Cover, Sensor	
237A	4974JJ2017A	GUIDE,PITCHER	616E	5210JA3005N	Tube,Plastic	
237C	4974JJ1021A	GUIDE, DRAWER	618A	5210JJ3005B	TUBE,INJECT	
241A	3550JL2006A	Cover,Tray	619A	5220JA2009D	Valve, Water	
241B	5074JJ1019A	Bucket,Dairy	619B	3550JJ2024A	Cover,Valve	
241C	5005JJ2022A	BASKET ASSEMBLY, DOOR	619C	5221JA2008G	VALVE ASSEMBLY, WATER	
243A	4620JJ3006A	Stopper,Door	621B	ACJ30147004		
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243B 244A	4620JJ2009A	Stopper,Door Handle Assembly,Freezer	621C 622A	ACJ30147003	Connector Assembly	
	3651JA1023X			5040JA2015A	RUBBER,INJECT	
248E	3806JJ1048A	Decor,Tray	622B	4810JA3036A	Bracket, Cover	
248F	3806JL2011A	DECOR,TRAY	623C	4770JA3001A	Band	
249A	5098JJ1002B	CONNECTOR ASSEMBLY	627A	4930JA3054A	Holder,Pipe	
249B	5098JJ1002A	CONNECTOR ASSEMBLY	903A	3550JJ0006A	Cover,Lower	
249E	5218JA1010E	Rail,Slide	903B	4930JJ2021A	Holder,Cover(Lower)	
249F	5218JA1010F	Rail,Slide	903D	6500JK1003A	SENSOR	
249 J	3550JJ1111A	Cover, Connector	903E	6500JK1004A	Sensor	
249K	3550JJ1111B	Cover, Connector	SO1	1SZZJJ3010A	Screw, Customized	
250A	4270JJ3001E	Bar	\$22	J471-00001J	Screw, Customized	
250B	4403JJ3001A	CONNECTOR ASSEMBLY	\$24	1SZZJA3011B	Screw, Customized	
262D	4004JA3002A	CLIP	\$28	1SZZJJ3005E	Screw, Customized	
262E	4350JA3005B	Ring	\$29	4J00415D	Screw, Customized	
262H	4775JJ2019B	HINGE ASSEMBLY, CENTER	S31		Screw, Customized	
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