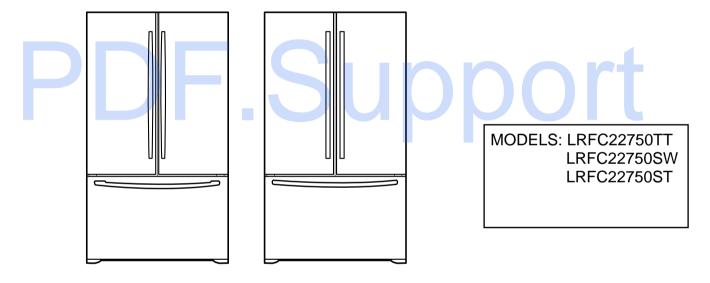


REFRIGERATOR SERVICE MANUAL

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



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SAFETY PRECAUTIONS

Please read the following instructions before servicing your refrigerator.

- 1. Check the refrigerator for current leakage.
- 2. To prevent electric shock, unplug before servicing.
- 3. Always check line voltage and amperage.
- 4. Use standard electrical components.
- 5. Don't touch metal products in the freezer with wet hands. This may cause frostbite.
- 6. Prevent water from spiling onto 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.

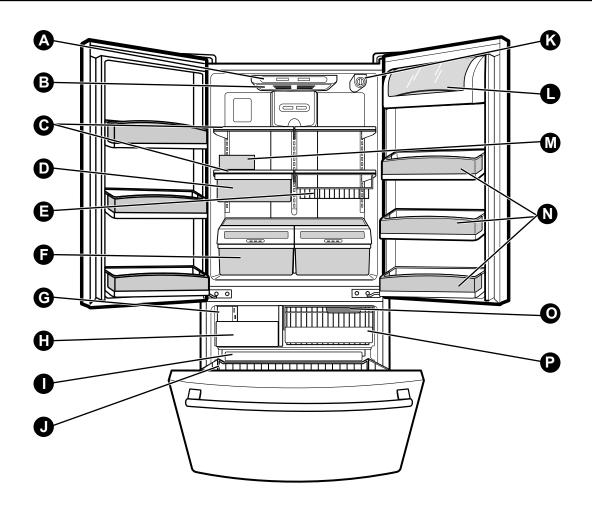
1. SPECIFICATIONS

22 cu. Ft. (22.4 cu. Ft.)

ITEMS	SPECIFICATIONS
DOOR DESIGN	Side Rounded
DIMENSIONS	W(836)x D(870)x H(1754) mm W(32.91)x D(34.25)x H(69.06) in
NET WEIGHT	127.5 Kg 281.09 pounds
COOLING SYSTEM	Fan Cooling
TEMPERATURE CONTROL	Micom Control
DEFROSTING SYSTEM	Full Automatic
BEI HOOTING OTOTEM	Heater Defrost
DOOR FINISH	Embossed Metal, VCM, Stainless
HANDLE TYPE	Bar
INNER CASE	ABS Resin
INSULATION	Polyurethane Foam

ITEMS		SPECIFICATIONS	
VEGETA	ABLE TRAY	Opaque Drawer Type	
COMPR	ESSOR	PTC Starting Type	
EVAPOI	RATOR	Fin Tube Type	
CONDE	NSER	Wire Condenser	
REFRIG	ERANT	R-134a (115 g)	
LUBRIC	ATING OIL	ISO10 (220 ml)	
DEFRO	STING DEVICE	SHEATH HEATER	
LAMP	REFRIGERATOR	60 W (2EA)	
LAWIP	FREEZER	60 W (1EA)	

2. PARTS IDENTIFICATION



- A Digital Sensor Control*
- **B** Refrigerator Light
- **C** Shelves
- **D** Chef Fresh
- **E** Can Dispenser
- Optibin Crisper
 Keeps fruits and vegetable fresh and crisper
- **G** Customcube Icemaker
- lce Bin
- Full Widht Wire Basket
- J Wire Durabase

- K Filter (inside)*
- Dairy Bin
- M Egg Box
- N Design-A-Door Bins
- Freezer Light
- P Wire Basket

*On some models

3. DISASSEMBLY

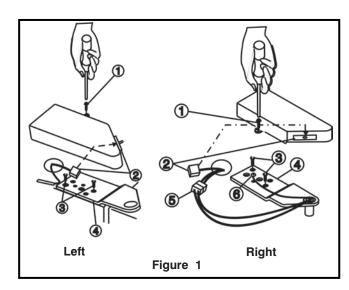
3-1 DOOR

▶ 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

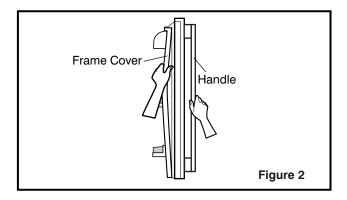
- Loosen the cover screw (1).
- Disconnect door switch wire (2).
- Disconnect wire harness (5).
- Loosen hinge bolts (3).
- Loosen ground screw (6).
- Lift off the top hinge (4).
- Place the door on a non-scratching surface with the inside up.



Door Gasket Removal

1. Remove door frame cover

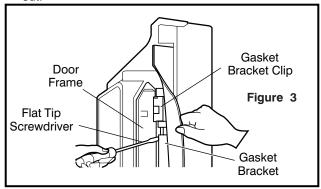
Starting at top of cover and working down, snap cover out and away from door.



2. Remove gasket bracket clips

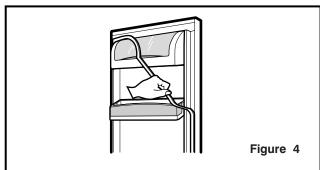
There are two clips on each door. Start bracket removal near one of the middle clips.

- 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

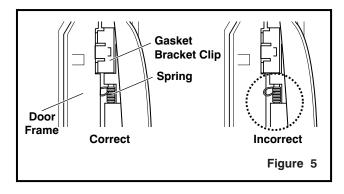
Pull gasket free from gasket channel on the three remaining sides of door.



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.



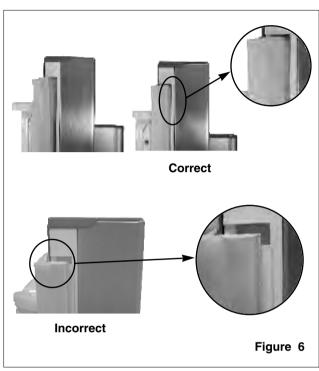
4) Push in remaining two clips until you hear each snap securely into place.

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

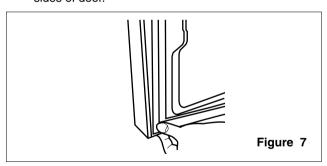
2. Insert gasket into channel

1) Snap gasket assembly into the door bracket.

<Inserting the Gasket Assembly into the Bracket Door>

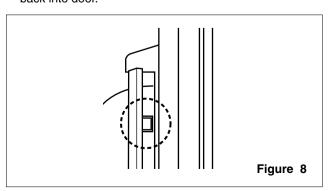


2) Press gasket into channels on the three remaining sides of door.



3. Replace door frame cover

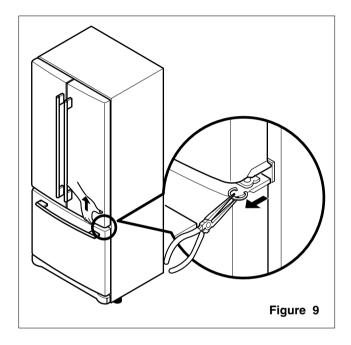
Starting at top of cover and working down, snap cover back into door.



3-2 DOOR ALIGNMENT

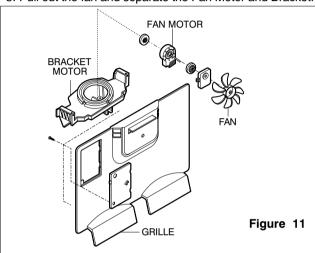
If the space between your doors is uneven, follow the instructions below to align the doors:

- 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.



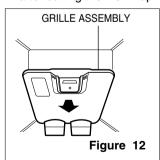
3-4 DEFROST CONTROL ASSEMBLY

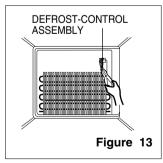
Defrost Control assembly consists of Defrost Sensor and FUSE-M.

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.

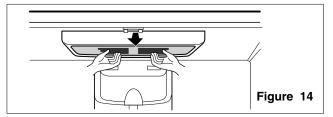
Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

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



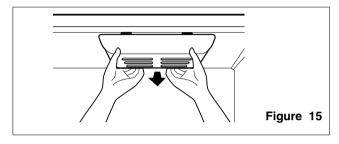


3-5 LAMP



3-5-1 Refrigerator Compartment Lamp

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

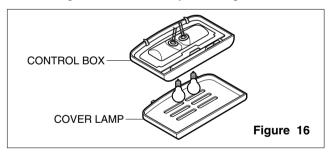


3-5-2 Freezer Compartment Lamp

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

3-6 CONTROL BOX-REFRIGERATOR

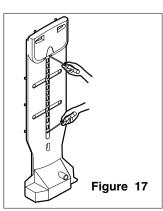
1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.



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

3-7 MULTI DUCT

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



4. ADJUSTMENT

4-1 COMPRESSOR

4-1-1 Role

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

4-1-2 Composition

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

4-1-3 Note for Usage

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

4-2 PTC-STARTER

4-2-1 Composition of PTC-Starter

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

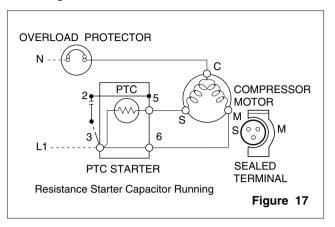
4-2-2 Role of PTC-Starter

- (1) The PTC is attached to the Sealed Compressor and is used for starting the Motor.
- (2) The compressor is a single-phase induction motor.

 Durign the starting operation, the PTC allows current flow to both the start winding and main winding.

4-2-3 PTC-Applied Circuit Diagram

Starting Method for the Motor



4-2-4 Motor Restarting and PTC Cooling

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

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

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

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

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

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

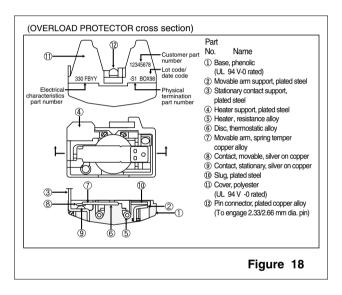
4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

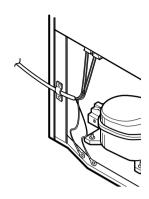
- (1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.
- (2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP,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

4-3-2 Role of the OLP

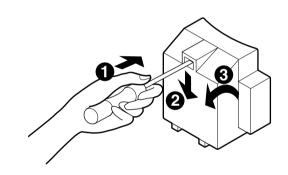
- (1) The OLP is attached to the Sealed Compressor used for the Refrigerator. It prevents the Motor Coil from being started in the Compressor.
- (2) For normal operation of the OLP, do not turn the Adjust Screw of the OLP in any way.



4-4 TO REMOVE THE COVER PTC

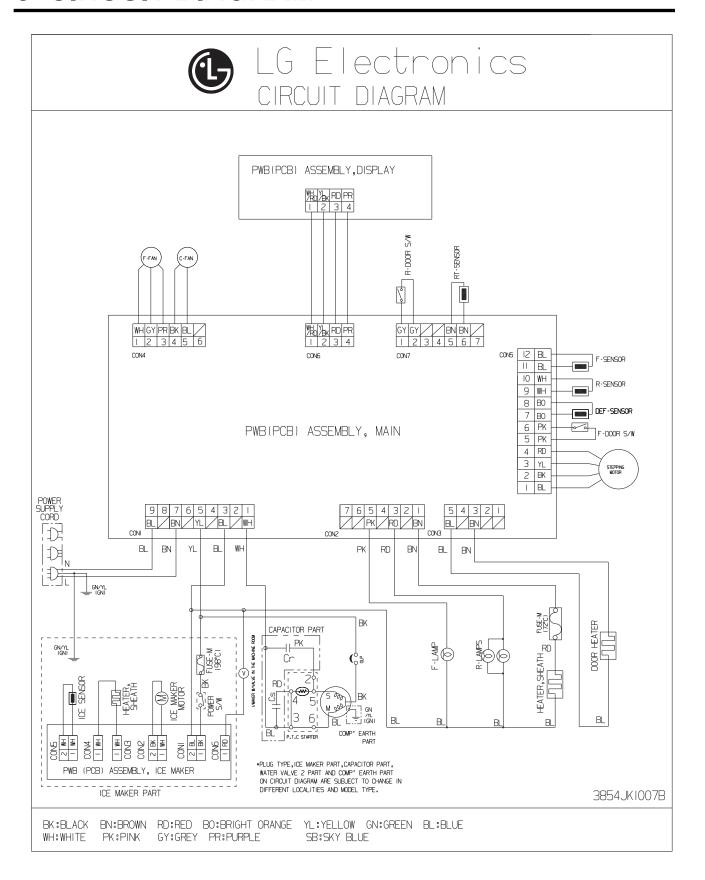


- 1) Remove the Cover Back M/C.
- (2) Disconnect two housing upper side of comp connected in.
- (3) Loosen two screws on comp base.



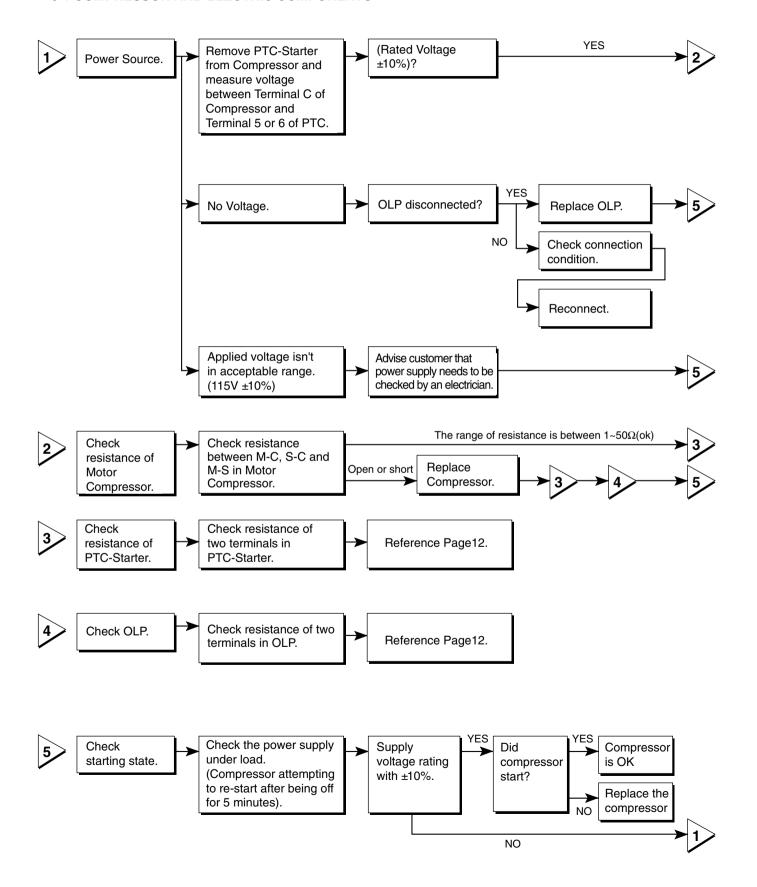
- (4) Use a L-shaped flap tool to pry off the cover.
- (5) Assembly in reverse order of disassembly.

5. CIRCUIT DIAGRAM

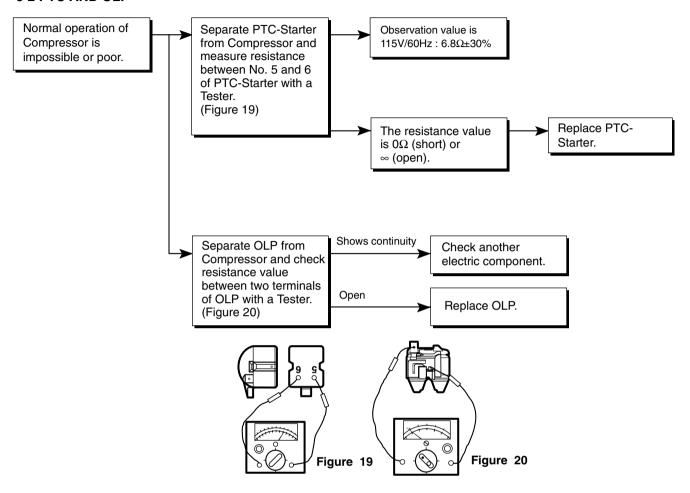


6. TROUBLESHOOTING

6-1 COMPRESSOR AND ELECTRIC COMPONENTS

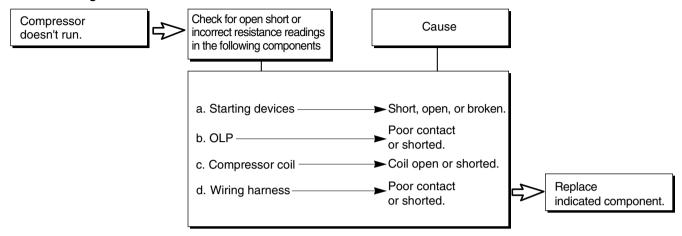


6-2 PTC AND OLP

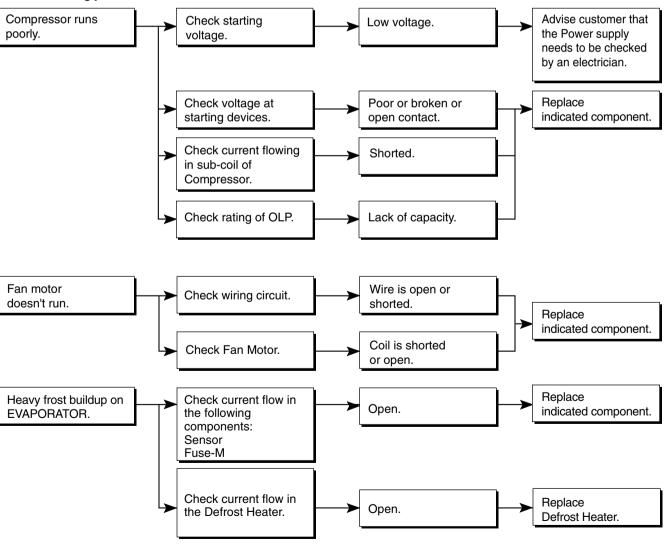


6-3 OTHER ELECTRICAL COMPONENTS

▼ Not cooling at all



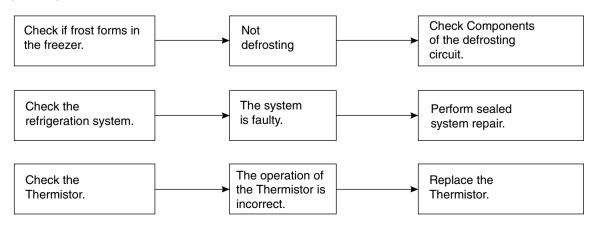
▼ Poor cooling performance



6-4 SERVICE DIAGNOSIS CHART

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

• Other possible problems:

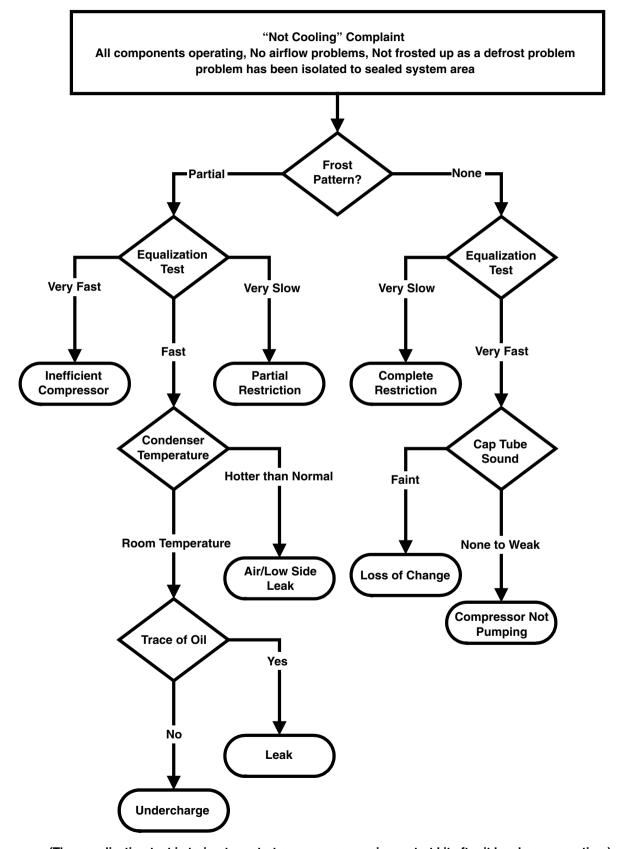


6-5 REFRIGERATION CYCLE

▼ Troubleshooting Chart

	CAUSE	STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
LEAKAGE	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.
AGE	COMPLETE LEAKAGE	Freezer compartment and Refrigerator don't cool normally.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	 No discharging of Refrigerant. Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
CLOGGED BY I	PARTIAL CLOG	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.
	WHOLE CLOG	Freezer compartment and Refrigerator don't cool.	Flowing sound of refrigerant is not heard and frost isn't formed.	Equal to ambient temperature.	Normal discharging of the Refrigerant.
	MOISTURE CLOG	Cooling operation stops periodically.	Flowing sound of refrigerant is not heard and frost melts.	Lower than ambient temperature.	Cooling operation restarts when heating the inlet of the capillary tube.
DEFECTIVE COMPRESSION	COMP- RESSION	Freezer and Refrigerator don't cool.	Low flowing sound of refrigerant is heard and frost forms in inlet only.	A little higher than ambient temperature.	Low pressure at high side of compressor due to low refrigerant level.
	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

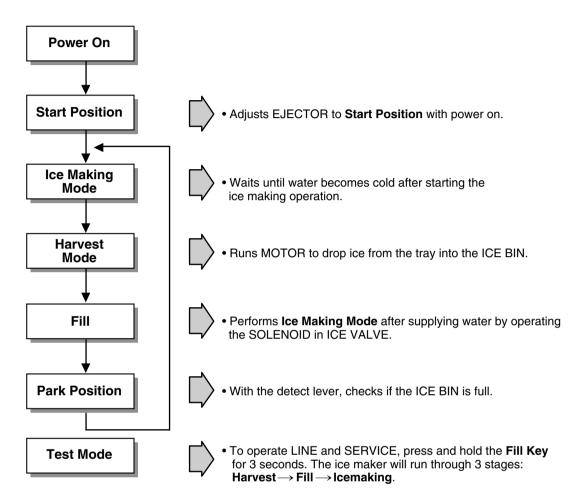


(The equalization test is trying to restart a compressor using a start kit after it has been operating.)

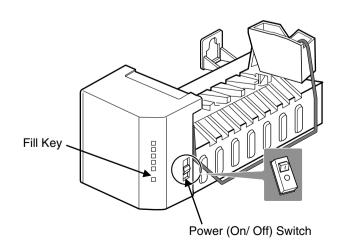
7. OPERATION PRINCIPLE AND REPAIR METHOD OF ICEMAKER

7-1 OPERATION PRINCIPLE

7-1-1 Operation Principle of IceMaker



- 1. Turning the Icemaker stop switch off (O) stops the ice making 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 Start Position

- 1. After POWER OFF or Power Outage, check the EJECTOR's position with MICOM initialization to restart.
- 2. How to check if it is in place:
 - Check HIGH/LOW signals from HALL SENSOR in MICOM PIN.
- 3. Control Method to check if it is in place:
 - (1) EJECTOR is in place,
 - It is an initialized control, so the mode can be changed to ice making control.
 - (2) EJECTOR isn't in place:
 - A. If EJECTOR is back in place within 2 minutes with the motor on, it is being initialized. If not, go to Step B.
 - B. If EJECTOR is back in place within 18 minutes after the heater turns from ON to OFF, it is being initialized. If not, it is not functioning. Repeat Step B with Heater and Motor off.

7-2-2 Ice Making Mode

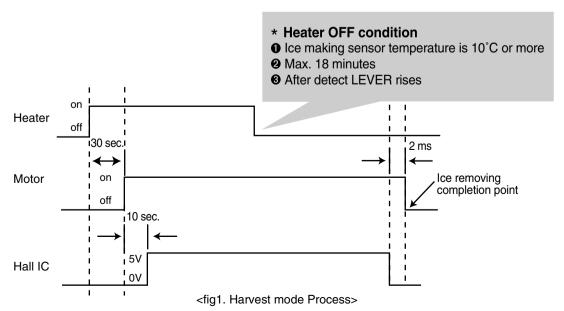
- 1. Ice Making refers to the freezing of supplied water in the ice trays. Complete freezing is assured by measuring the temperature of the Tray with Ice-Making SENSOR.
- 2. Ice Making starts after completion of the water fill operation.
- 3. The Ice Making function is completed when the sensor reaches -7°C, 60 to 240 minutes after starting.
- 4. If the temperature sensor is defective, the ice-making function will be completed in 4 hours.

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

7-2-3 Harvest Mode

- 1. Harvest (Ice removing) refers to the operation of dropping cubes into the ice bin from the tray when ice-making has completed.
- 2. Harvest mode:
 - (1) The Heater is ON for 30 seconds, then the motor starts.
 - (2) After performing Step 1 (the Heater is turned OFF), the Ejector will be back in place within 18 minutes. (Hall SENSOR sign = OV). Ice removal is then complete. Then the Ice Maker cycles to the Fill Mode. The water supply fails to start, it is not functioning. Put the Heater and Motor in the off position. Restart every 2 hours. (Refer to fig.1)

NOTE: If the motor malfunctions and starts before the detect lever rises, MICOM regards the Ice-Removing phase as completed. Water then starts flowing. To prevent this, MICOM doesn't switch to water-supply mode, but restarts the ice-removing mode. If this happens 3 times, the motor is malfunctioning and you should stop the loads (Heater, Motor). Then restart the Ice-Removing mode every 2 hours. (See Step 2 above.)



7-2-4 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	6.5 sec.		
3	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.
4	7.5 sec.		Commoded water line.
5	8 sec.		

7-2-5 Function TEST

- 1. This is a compulsory operation for TEST, SVC, cleaning, etc. It is operated by pressing and holding the Fill Key for 3 seconds.
- 2. The test works only in the Ice Making 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 Maker 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: ice making → Harvest → Fill → Park Position.
- 5. Five seconds after Stage 5 is completed, the Ice Maker 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 or lever is in up position.
2	MOTOR		Five seconds after heater starts, you can confirm that motor is moving.
3	HALL IC I (detection of position)		You can confirm Hall Ic detection of position.
4	VALVE		Two seconds after detection of initial position, you can confirm that valve is on.
5	HALL IC II (detection of full- filled Ice)		You can check whether hall is sensing Full ice condition. (If there is a full-filled 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	CONTENTS	REMARKS
1	Normal	Mark time to supply	None	Display switch operates properly
2	Ice-Making Sensor malfunction		Open or short-circuited wire	Make sure that the wire on each sensor is connected.
3	Ice Maker Kit malfunction		When ejector blades don't reach park position over 18 minutes after Harvest Mode starts.	Check HALL IC/MOTOR/ HEATER/RELAY

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 37°F for Refrigerator and 0°F 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 "37" & "0".



Control range : 32°F ~ 47°F 0°C ~ 8°C Control range : -6°F ~ 8°F

-21°C ~ -13°C

8-1-2 How to Toggle the Display between °F & °C

- 1. The display temperature mode can be changed from °F to °C or °C to °F by pressing and holding the COLDER FREEZER TEMP and the COLDER REFRIGERATOR TEMP keys at the same time for over one second.
- 2. The initial setting is °F. Whenever the mode is changed, the LED lights are changed.

8-1-3 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 express freezing, and when refrigerator is overloaded. Standard RPM is used for normal usage.
- 3. Fan motor stops when refrigerator of freezer door opens.

8-1-4 EXPRESS FREEZING

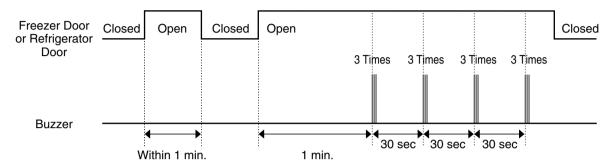
- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
- 3. If there is a power outage and the refrigerator is powered on again, EXPRESS FREEZING will be canceled.
- 4.To activate this function you need to press the Express Freezing key and the LED will turn ON. This function will remain activated for 24 hrs. The first three hours the compressor and Freezer Fan will be ON. The next 21hours the freezer will be controlled at the lowest temperature. After 24 hours or if the Express Freezing key is pressed again, the freezer will return to its previous temperature.
- 5. During the first 3 hours:
 - (1) Compressor and freezer fan(HIGH RPM) run continuously.
 - (2) If a defrost cycle begins during the first 90 minutes of Express Freezing, the Express Freeze cycle will complete its cycle after defrosting has ended. If the defrost cycle begins when Express Freeze has run for more than 90 minutes, Express Freeze will run for two hours after the defrost is completed.
 - (3) If EXPRESS FREZZING is pressed during defrost, EXPRESS FREZZING LED is on but this function will start seven minutes after defrost is completed and it shall operate for three hours.
 - (4) If EXPRESS FREZZING 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 EXPRESS FREZZING.
- 6. For the rest of 21 hours, the freezer will be controlled at the lowest temperature.

8-1-5. REFRIGERATOR LAMP AUTO OFF

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

8-1-6 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.



8-1-7 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced.

8-1-8 Defrosting (removing frost)

- 1. Defrosting starts each time the COMPRESSOR running time reaches 7 hours.
- 2. For initial power on or for restoring power, defrosting starts when the compressor running time reaches 4 hours.
- 3. Defrosting stops if the sensor temperature reaches 8°C or more. If the sensor doesn't reach 8°C in 2 hours, the defrost mode is malfunctioning.
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

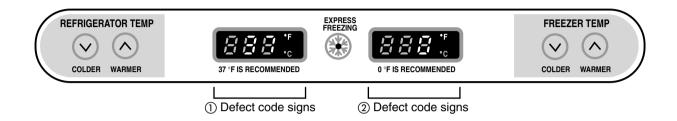
8-1-9 Electrical Parts Are Turned On Sequentially

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		
Initi	Temperature of Defrosting Sensor is 45°C or more (when unit is newly purchased or when moved)	POWER in 0.5 sec COMP in 0.5 sec Freezer FAN ON → ON → ON		
Initial power on	Temperature of defrosting sensor is lower than 45°C (when power cuts,	POWER in 0.5 sec Defrosting in 10 sec Defrost heater ON Defrosting in 10 sec Defrost heater OFF		
	SERVICE)	in 0.5 sec COMP in 0.5 sec Freezer FAN ON ON		
Reset to normal operation from TEST MODE		Total load in 7 min COMP in 0.5 sec Freezer FAN OFF → ON → ON		

8-1-10 Defect Diagnosis Function

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



ERROR CODE on display panel

NO	ITEM	ERROR CODE		CONTENTS	REMARKS	
NO	I I CIVI	1	2	CONTENTS	HEIWIAHNS	
1	Failure of freezer sensor	E-	F5	Cut or short circuit wire		
2	Failure of Refrigerator sensor	E-	-5	Cut or short circuit wire	Inspect Connecting wires on each sensor	
3	Failure of defrost sensor	E-	4 5	Cut or short circuit wire		
4	Failure of Room Temperature sensor	When disp mode:		Cut or short circuit wire		
5	Failure of defrost mode	Er	dН	When defrost sensor doesn't reach 8°C within 2 hours after starting defrost.	Snapping of defrost heater or Temperature fuse, pull- out of connector (indicated minimum 2 hours after failure occurs)	
6	Failure of BLDC Fan Motor at Freezing Compartment	Er-	FF	If there is no fan motor signal for more than 65sec in operation fan motor	Poor motor, hooking to wires of fan, contact of structures to fan, snapping or short circuit of Lead wires	

- Note 1) Room Temperature Sensor is not indicated on the failure indicating part but indicated in checking Display. (When pressing for more than the warmer key of Refrigerator Temp. and the warmer kye of Freezer Temp for more than 1 second).
- * LED check function: If simultaneously pressing the warmer key of Refrigerator Temp and the warmer key of Freezer Temp for a second, all display LED graphics on. If releasing the button, the LED graphics displays the previous status.

8-1-11 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 Express Freezing Key and COLDER KEY of Freezer Temp. at the Same time for 3 seconds. OR Push TEST S/W (on the main Board) Once.	1) Continuous operation of the COMPRESSOR and the Freezer fan 2) Stepping DAMPER OPEN 3) Defrosting HEATER OFF 4) DISPLAY LED all ON	
TEST2	Push Express Freezing Key and COLDER KEY of Freezer Temp. at the Same time for 3 seconds. In TEST MODE 1 OR Push TEST S/W Once in TEST MODE 1	1) Continuous operation of the COMPRESSOR and the Freezer fan 2) Stepping DAMPER CLOSE 3) Defrosting HEATER OFF 4) DISPLAY LED ahows no. 2	
TEST3	Push Express Freezing Key and COLDER KEY of Freezer Temp. at the Same time for 3 seconds. In TEST MODE 2 OR Push TEST S/W Once in TEST MODE 2	1) COMPRESSOR and the Freezer fan OFF 2) Stepping DAMPER CLOSE 3) Defrosting HEATER ON 4) DISPLAY LED ahows no. 3	Reset if the Temperature of the Defrosting sensor is 8°C or more.
Reset	Push Express Freezing Key and COLDER KEY of Freezer Temp. at the Same time for 3 seconds. In TEST MODE 3 OR Push TEST S/W Once in TEST MODE 3	Reset to the previously setting Before TEST MODE	The compressor will Start after a 7-minute Delay.

* Freezer Fan RPM Variable Check:

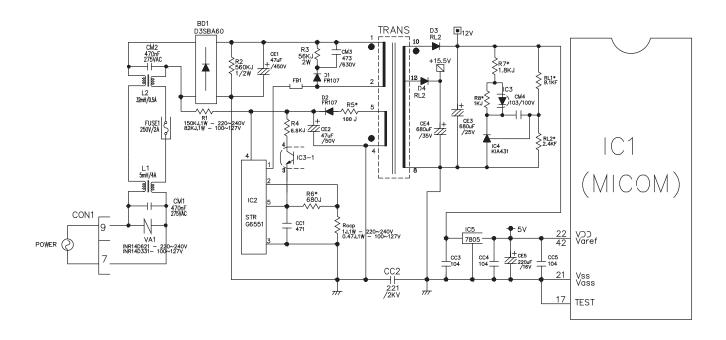
In case the freezer fan is in operation when the WARMER KEY in Refrigerator and Freezer Temp. Control are pressed for more than one second at the same time freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed for 30 seconds)

After 30 seconds, it turns to its original RPM.

- * Demonstration (Display) MODE:
- 1. To enter this mode, raise either the Refrigerator or Freezer temperature to its highest setting. Then, press that Warmer Key and hold for about 5 seconds.
- 2. The LED panels will display OFF, to indicate that the Compressor, Circulating Fan, Damper, and Defrost Heater are not operating.
- 3. The Open Door Alarm and the Lamp Auto-Off feature will work normally and can be demonstrated.
- 4. To reset to normal operation, press and hold either Warmer Key for about 5 seconds.

8-2 PCB FUNCTION

8-2-1 Power Circuit



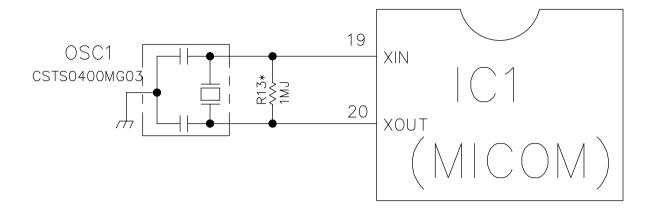
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

The voltage for each part is as follows:

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

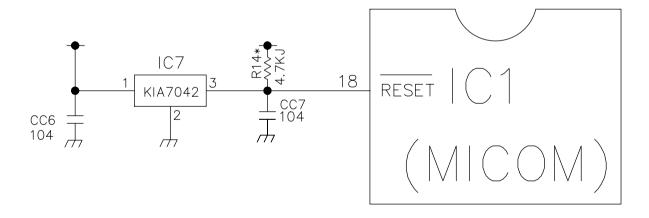
VA1 is a part for preventing over voltage and noise. When 385V or higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

8-2-2 Oscillation Circuit



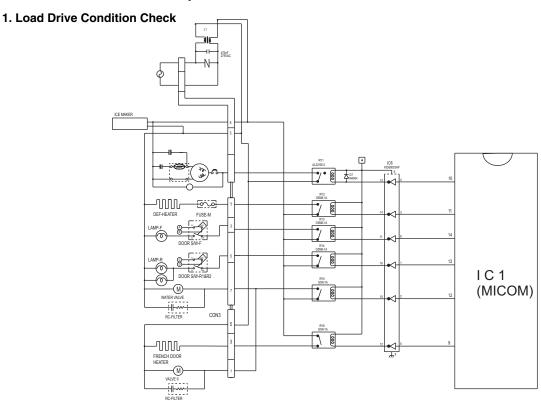
This circuit generates the base clock for calculating time and the synchro clock for transmitting data from and to the inside logic elements of the IC1 (MICOM). Be sure to use specified replacement parts, since calculating time by the IC1 may be changed. If changed, the OSC1 SPEC will not work.

8-2-3 Reset Circuit



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

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

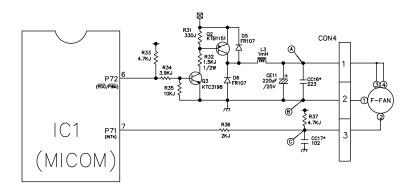


LOAD T	HEATER			LAMP	FRENCH DOOR HEATER 1, 2 / DEW HEATER	VALVE
Measurement Lo	cation (IC6)	NO.13	NO.14	NO.16	NO.12	NO.15
Condition	ON			1V or below		
Condition	OFF			12V		

2. Motors driving circuit

2.1 Fan motor driving circuit (freezing compartment fan)

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

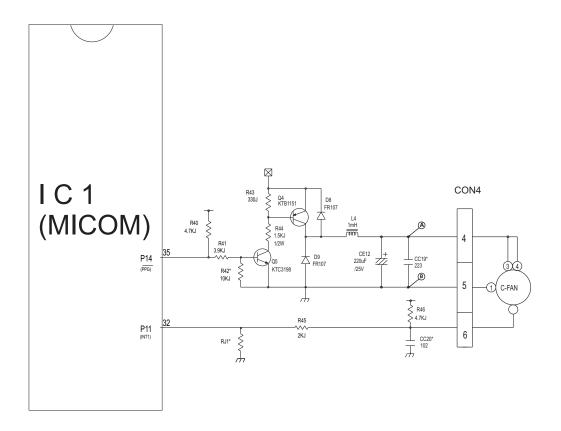


	a part	(b) part	© part
MOTOR OFF	2V or less	0V	5V
MOTOR ON	13V~15V	OV	2V~3V

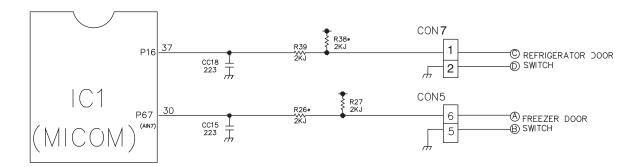
2.2 Cooling motor driving circuit (machine room)

- 1. This circuit makes standby power 0 by cutting off power supplied to ISs inside of the fan motor in the fan motor OFF.
- 2. This 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
MOTOR OFF	2V or less	0V
MOTOR ON	13V~15V	0V

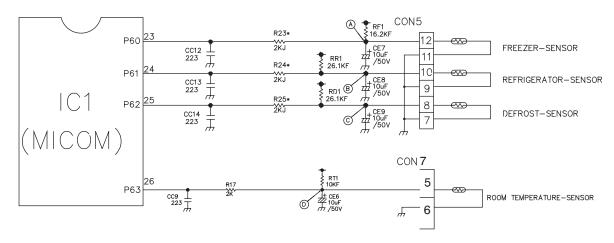


3. Open Door Detection Circuit Check



Measurement Freezer/ Location Refrigerator Door	(PIN NO.30 & PIN NO.37)
Closed	5 V
Open	0 V

8-2-5 Temperature Sensor Circuit

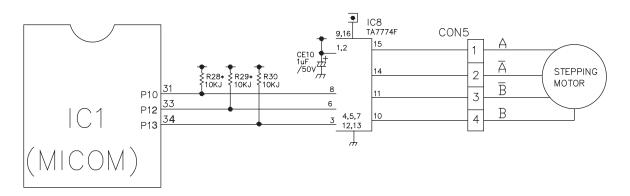


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM. OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

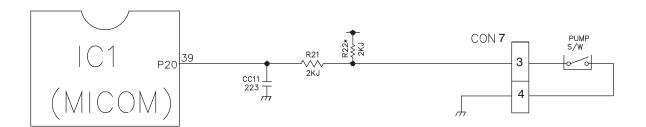
SENSOR	CHECK POINT	NORMAL (-30 C ~ 50 C)	SHORT-CIRCUITED	OPEN
Freezer Sensor	POINT (A) Voltage			
Refrigerator Sensor	POINT B Voltage	0.577 4.577	0.1/	5.4
Defrosting Sensor	POINT © Voltage	0.5 V ~ 4.5 V	0 V	5 V
Room Temperature sensor	POINT D Voltage			

8-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

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

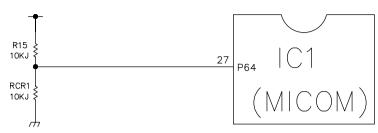


8-2-7 Dispenser Input



8-2-8 Temperature Compensation & Overcooling/Undercooling Compensation Circuit

1. Refrigerator Temperature Compensation



Refri	gerator	
Resistance	Temperature	Remark
(RCR)	Compensation	
180 KΩ	+2.5°C	Compensation by
56 KΩ	+2.0°C	raising the temperature
33 ΚΩ	+1.5°C	
18 ΚΩ	+1.0°C	1
12 ΚΩ	+0.5°C	
10 ΚΩ	0°C	Standard Temperature
8.2 ΚΩ	-0.5°C	Compensation by
5.6 ΚΩ	-1.0°C	lowering the temperature
3.3 ΚΩ	-1.5°C	
2 ΚΩ	-2.0°C	
470 Ω	-2.5°C	▼

▶ Table of Temperature Compensation by adjusting the resistance (difference from the current temperature) e.g., If the refrigerator compensation resistance (RCR) is changed from 10K (the current resistance) to 18K (the adjustment resistance), the temperature of the refrigerator rises 33.8°F(+1°C).

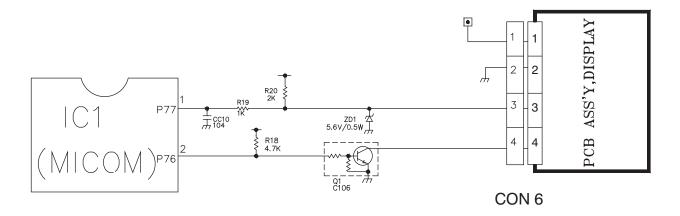
2. The temperature compensation for refrigerator compartment is in the following table:

	Revised resistance	470Ω	2kΩ	3.3kΩ	5.6kΩ	8.2kΩ	10kΩ	12kΩ	18kΩ	33kΩ	56kΩ	180kΩ
	Present resistance 470Ω	No change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up	5°C Up
	2kΩ	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up	4.5°C Up
	3.3kΩ	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up	4°C Up
	5.6kΩ	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up	3.5°C Up
	8.2kΩ	2°C Down	1.5°C Down	1°C Down	0.5° Down	No Change	-	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up
Refrigerator (RCR)	10kΩ	2.5°C Down	2°C Down	1.5°C Down	1°C Down		No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up
	12kΩ	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up
	18kΩ	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down		No Change	0.5°C Up	1°C Up	1.5°C Up
	33kΩ	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change	0.5°C Up	1°C Up
	56kΩ	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down		No Change	0.5°C Up
	180kΩ	5°C Down	4.5°C Down	4°C Down	3.5°C Down	3°C Down	2.5°C Down	2°C Down	1.5°C Down	1°C Down	0.5°C Down	No Change

NOTE: This circuit is designed to input the necessary temperature compensation values into the MICOM. This adjusts the refrigerator temperature, which is different in each model.

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 Module SEVEN SEGMENT DISPLAY. The drive type is the scan type.



8-3 RESISTANCE SPECIFICATION OF SENSOR

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

 $[\]bullet$ The resistance of the SENSOR has a $\pm 5\%$ common difference.

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

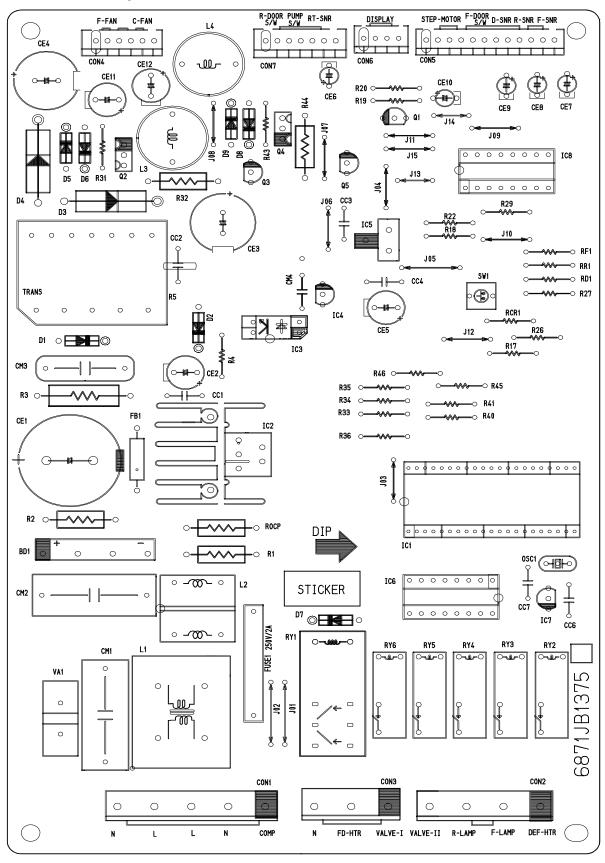
8-4 TROUBLESHOOTING

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
POWER SOURCE is poor.	1. The whole DISPLAY LED/SEVEN SEGMENT DISPLAY is 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	3. 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.	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, don't press the KEY and	COMPRESSOR RELAY is poor.	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	Refrigerant leakage.	Replace the leaking part and
			and the surface temperature		replace any lost retrigerant.
			of the condenser pipe.		
	FREEZER TEMPERATURE is	1. If FAN MOTOR 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.	of the Refrigerator 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	is normal.	TEMPERATURE is too 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.
			door is closed.		
DEFROSTING is	NO DEFROSTING.	1. If HEALEH emits heat.	(forced DEFROSTING).	HEAI ER disconnection.	Replace HEATER.
				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

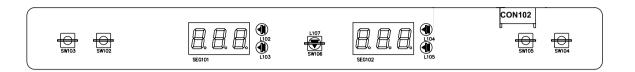


8-5-2 Replacement Parts List

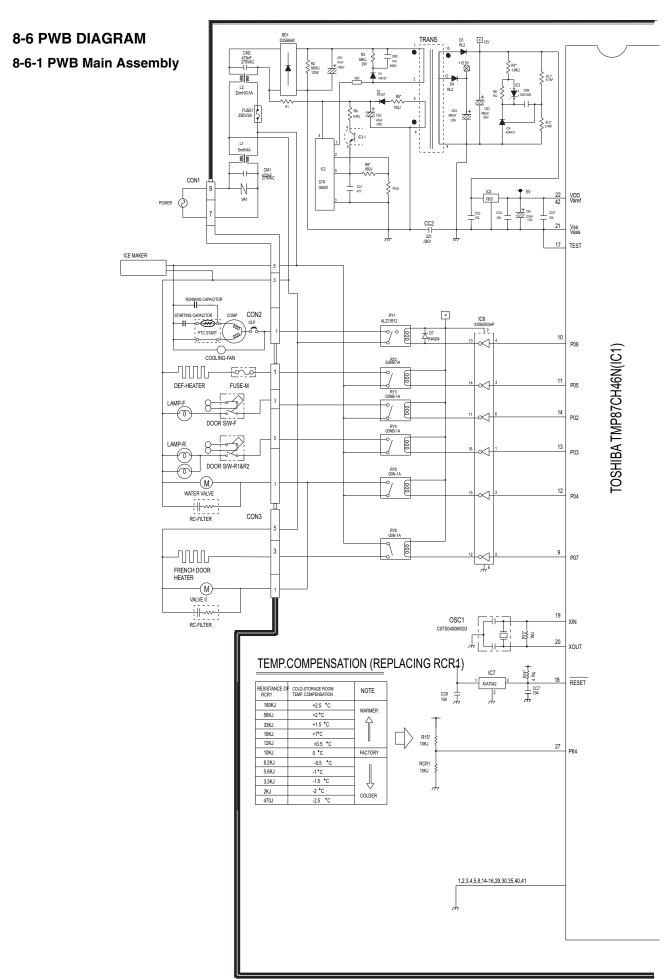
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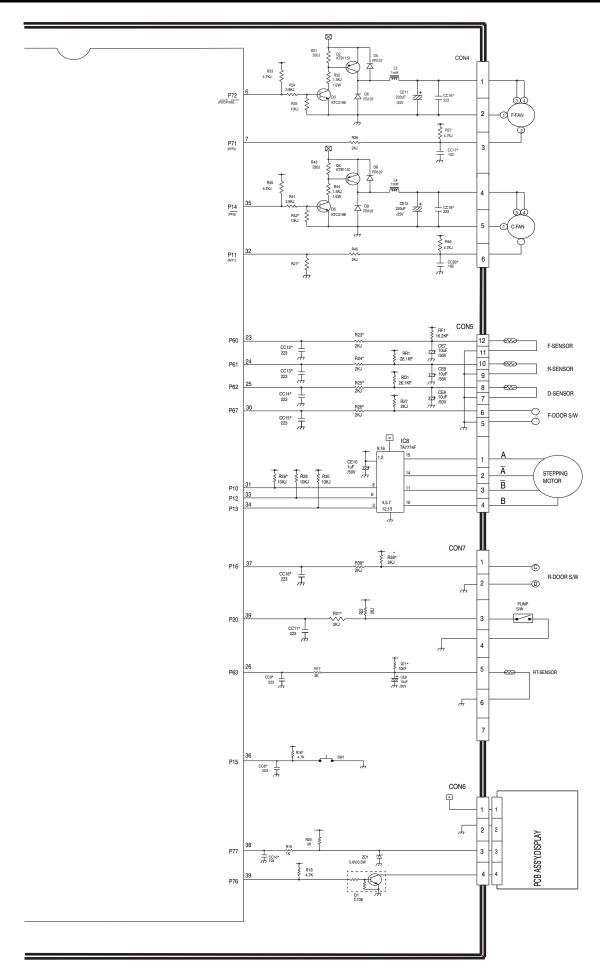
MER,SMPS[COIL]	BEST BRAVO-PJT	DOO SAN	
	DL-PJT 2.9MH/20W	SAM IL	T=1.6 TRANS
MER,SMPS[COIL]		JANI IL	TRANS
R (CIRC),WAFER	YW396-09AV	YEON HO	CON1
R (CIRC),WAFER	YW396-07AV	YEON HO	CON2
R (CIRC),WAFER R (CIRC),WAFER	YW396-05AV SMW250 YEONHO 6P 2.5MM STRAIGHT SN	YEON HO YEON HO	CON3 CON4
			CON4 CON5
R (CIRC),WAFER R (CIRC),WAFER	SMW250 YEONHO 12P 2.5MM STRAIGHT SN SMW250 YEONHO 4P 2.5MM STRAIGHT SN	YEON HO YEON HO	CON6
R (CIRC),WAFER	SMW250 YEONHO 7P 2.5MM STRAIGHT SN	YEON HO	CON7
9	TMP87C846N 42P SDIP BK MASK BRAVO33-PJT BEST/BETTER	TOSHIBA	IC1
MANAGEMENT	STR-G6351 5PIN BK SMPS 2,4PIN FORM	SANKEN NEC	IC2
MANAGEMENT	PS2561L1-1-V NEC 4P,DIP BK = TLP721F KIA431 3 PIN TP	KEC	IC3
	KIA7805PI 3DIP BK 5V 1A REFORM	KEC	IC5
	KID65003AP 16P,SDIP BK DRIVE IC	KEC	IC6
	KIA7042P KEC 3P BK RESET	KEC	IC7
3	TA7774AP 16,SDIP BK DRIVE,IC STEPPING MOTOR	TOSHIBA	IC8
	ALZ12B12 NAIS 250VAC 16A 12VDC 1A NO VENTING G5N-1A OMRON 250VAC 1.5A 12VDC 1A JAPAN	NAIS OMRON	RY1 RY5,RY6
	G5NB-1A-E(CHINA) OMRON 250VAC 5A 12VDC 1A NO VENTING	OMRON	RY2-4
	G5SB-14 OMRON 250VAC 5A 12VDC 1C NO VENTING	OMRON	-
	•	-	-
R,CERAMIC	CSTS0400MG03 MURATA 4MHZ . TP -	MURATA	OSC1
	INR14D621 ILJIN UL/VDE BK 620V	IL JIN	VA1
TIFIFDO	INR14D331K IL JIN UL/CSAVDE BK	IL JIN	VA1
TIFIERS TIFIERS	D3SBA60 BK SHINDENGEN - 600V 4A 80A - 10UA RECT1N4004 TP	SHINDENGEN DELTA	BD1
TIFIERS	FR107 TP RECTRON DO41 1000V 1A 30A 500NSEC 5A	DELTA	D1,D2,D5,D6,D8,D9
TIFIERS	RL2 SANKEN BK NON 400V 2A 40A 50NSEC 10UA	SANKEN	D3,D4
FIXED ELECTROLYTIC	1UF KME,RG,YX 50V 0.2 FM5 TP 5	SAM WHA	CE10
FIXED ELECTROLYTIC	10UF KMG 50V 20% FM5 TP 5	SAM WHA	CE6-CE9
FIXED ELECTROLYTIC	220UF KME TYPE 16V 20% FM5 TP 5	SAM WHA	CE5
FIXED ELECTROLYTIC	220UF KME,RG 25V 20% FM5 TP 5	SAM WHA	CE11,CE12
FIXED ELECTROLYTIC	47UF KME TYPE 50V 20% FM5 TP 5	SAM WHA	CE2
FIXED ELECTROLYTIC	470F NME 117E 30V 20 % NMS 11F 3	SAM WHA	CE1
FIXED ELECTROLYTIC	680UF RX 25V 20% BULK SNAP IN	SAM WHA	CE3
,FIXED ELECTROLYTIC	680UF RX 35V 20% TP 5 FL	SAM WHA	CE4
FIXED CERAMIC(HIGH DIELECTRIC)	1NF 2012 50V 80%, 20% R/TP X/R	MURATA	CC17,CC20
"FIXED CERAMIC(High dielectric) "FIXED CERAMIC(High dielectric)	0.1UF D 50V 80%,-20% F(Y5V) TA52	SAM WHA MURATA	CC3,CC4,CC6,CC7
FIXED CERAMIC(High dielectric)	0.1UF 2012 50V 80%,-20% R/TP JE 220P 2KV K B S	SAM WHA	CC5,CC10 CC2
FIXED CERAMIC(High dielectric)	22NF 50V Z F TA52	SAM WHA	-
FIXED CERAMIC(HIGH DIELECTRIC)	22NF 2012 50V 80%,-20% R/TP X7R	MURATA	CC8,CC9,CC11-15,CC18
FIXED CERAMIC(High dielectric)	470PF 50V K B TA52	SAM WHA	CC1
FIXED FILM	0.1UF D 100V 10% PE TP5	SAM WHA	CM4
"FIXED CERAMIC(HIGH DIELECTRIC) "FIXED FILM	1NF 2012 50V 80%,-20% R/TP X7R 47000PF S 630V 5% M/PE NI R	MURATA SAM WHA	CC20 CM3
FIXED FILM	0.47UF D 275V 20% MPP NI R	SAM WHA	CM3
RADIAL LEAD	1000UH 20% R 6X12.5 BULK	TNC	L3,L4
FIXED CARBON FILM	1K OHM 1/4 W 5% TA52	SMART	R19
FIXED CARBON FILM	10K OHM 1/4 W 5% TA52	SMART	R29,R35,RCR1
FIXED CARBON FILM	2K OHM 1/4 W 5% TA52	SMART	R17,R20,R21,R22,R26,R27,R36
FIXED CARBON FILM FIXED CARBON FILM	3.9K OHM 1/4 W 5% TA52 4.7K OHM 1/4 W 5% TA52	SMART SMART	R34,R41 R18,R33,R40
FIXED CARBON FILM	560K OHM 1/2 W 5% TA52	SMART	R2
FIXED CARBON FILM	2K OHM 1/4 W 5% TA52	SMART	R45
FIXED CARBON FILM	4.7K OHM 1/4 W 5% TA52	SMART	R46
METAL GLAZED(CHIP)	2.7K OHM 1/8 W 5% 2012 R/TP	ROHM	R21
METAL GLAZED(CHIP)	10KOHM 1/8 W 5% 2012 R/TP	ROHM ROHM	R15,R28,R30,R42,R8
METAL GLAZED(CHIP) METAL GLAZED(CHIP)	1MOHM 1/8 W 5% 2012 R/TP 1K OHM 1 / 8 W 2012 5.00% D	ROHM	R13 R7
METAL GLAZED(CHIP)	2K OHM 1 / 8 W 2012 3.00 % D	ROHM	R23-R25,R38,R39
METAL GLAZED(CHIP)	330 OHM 1/8 W 5% 2012 R/TP	ROHM	R31,R43
METAL GLAZED(CHIP)	4.7K OHM 1/8 W 5% 2012 R/TP	ROHM	R14,R16,R37
METAL GLAZED(CHIP)	100 OHM 1/8 W 5% 2012 R/TP	ROHM	R5
FIXED CARBON FILM	1.5K OHM 1/2 W 5% TA52	SMART	R32,R44
METAL GLAZED(CHIP) METAL GLAZED(CHIP)	0 OHM 1/8 W 5% 2012 R/TP 2.4K OHM 1/8 W 1% 2012 R/TP	ROHM ROHM	RJ1 RL2
METAL GLAZED(CHIP)	680 OHM 1/8 W 5% 2012 R/TP		R6
FIXED CARBON FILM	6.8K OHM 1/4 W 5% TA52	ROHM SMART	R4
METAL GLAZED(CHIP)	9.1K OHM 1/8 W 1% 2012 R/TP	ROHM	RL1
IXED METAL FILM	10K OHM 1/8 W 1.00% 2012 R/TP	ROHM	RT1
FIXED METAL FILM	16.2K OHM 1/4 W 1.00% TA52	SMART	RF1
FIXED METAL FILM FIXED METAL OXIDE FILM	26.1K OHM 1/4 W 1.00% TA52 1.5 OHM 1 W 5.00% TA52	SMART SMART	RR1,RD1
FIXED METAL OXIDE FILM	1 OHM 1 W 5% TA52	SMART	ROCP ROCP
FIXED METAL OXIDE FILM	56K OHM 2 W 5.00% F20	SMART	R3
FIXED METAL OXIDE FILM	330K OHM 1 W 5.00% TA52	SMART	R1
OR	KTC3198-TP-Y (KTC1815)KEC	KEC	Q3,Q5
OR,BIPOLARS	KEC KTB1151 BK TO126 60V 5A	KEC	02,04
OR,BIPOLARS C),EMC	KEC KRC106S R/TP SOT23 50V 100MA CV940050 TNC	KEC TNC	Q1 L1
C),EMC	UV11-05320 TNC BK 0.5A 320MH	TNC	L2
C),EMC	BFS3510A0 SAMWHA TP52 BEAD FILTER	SAM WHA	FB1
CT	JTP1280A6 JEIL 12VDC 50MA -	JEIL	SW1
ERS	1N5232B MOTORORA TP DO34 0.5W 5.6V 81MA .PF	DEL TA	ZD1
			J03,J04,J06-J12,J15(10MM)
	0.6MM 52MM TP TAPING SN	DAE A LEAD	J13,J14(8MM)
			J01,J02,J05(12.5MM)
VING	2A 250V - SLOW-BLOW LITTELFUSE,TRIAD	SAM JU KYO YUK	FUSE1
P TITE(S),BINDING HEAD	+ D3.0 L8.0 MSWR3/FZY	HAENG SUNG	
	ON OUTSIDE DOUBLE LO COMO DE CALLANTES COMO DE		
N DEDING		(IC2)	(IC2)
DLUERING		- -	-
VING	HEAD	2A 250V - SLOW-BLOW LITTELFUSE, TRIAD + D3 0 L8.0 MSWR3IFZY 23.3*17*25 DRIVE IC STR R-S64,65,73 2PIN 1-SCREW 3MM - NA HEESUNG METAL BAR SN 63% NA .3-571 KOKI SANEI KOREAJKSI, SC0, 2608 +1-0.003	2A 250V - SLOW-BLOW LITTELFUSE,TRIAD SAM JU KYO YUK HEAD + D3.0 L8.0 MSWR3/FZY HAENG SUNG 23.31/725 DRIVE IC STR R-S64,65,73 ZPIN 1-SCREW 3MM - (IC2) NA HEESUNG METAL BAR SN 63% NA -

8-5-3 PWB Assembly, Display, And Parts List



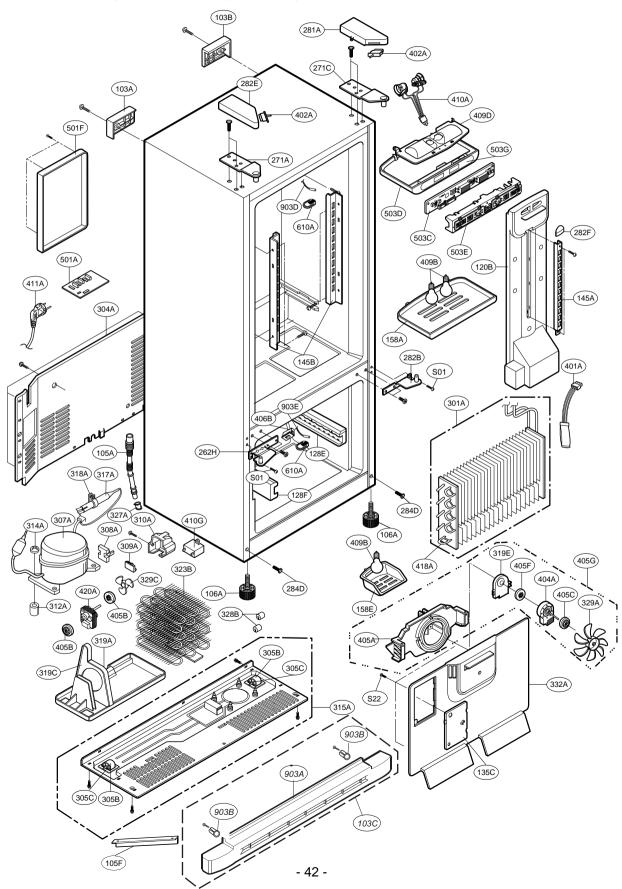
Α !	A WORK					
BETTER	APPLCATION					
Qty	No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	1	6870JB8199A	PW8(PC8)	BRAVO 33 DISPLAY		
1	2	6630JB8005C	CONNECTOR (CIRC), WAFER	SMAW250-04	YEON HO	CON01
1	3	0/ZZJB?????	IC, DRAWING	TMP87C409M 28, SOP28-P-450 BRAVO 33	TOSHBA	IC1
1	4	OISTLM1001A	IC, STANDARD LOGIC	M54563FP MITSUBISHI 20 R/TP CONVERT	MITSUBISHI	IC4
1	5	0KE650030C	IC, KEC	KID65003AF 16SOP BK 7CH DRIVER	KEC	IC5, IC6
1	6		IC, STANDARD LOGIC	KIA78LDSF KEC SOT-89 TP REGULATOR	KEC	IC2
1	7			KIA7042AF KEC SOT-89 TP RESET IC	KEC	IC3
1	8	OISTLKE005A	IC, STANDARD LOGIC	KRC 106S KEC SOT-23 TP TRANSISTOR	KEC	ରୀ
1	9		RESONATOR CERAMIC		MURATA	OSC1
1	10	0CE476VH6DC	CAPACITOR, FIXED ELECTR	47UF MV 25V 20% R/TP(SMD) SMD	SAMHWA	CE2
1	11	OCE107VF6DC	CAPACITOR, FIXED ELECTR		SAMHWA	CE)
7	12	0CK104DK94A	CAPACITOR, FIXED CERAMIC		MURATA	CC1-CC7
2	13	0CK102DK96A	CAPACITOR, FIXED CERAMIC		MURATA	CC8-CC9
1	14	ORH2200L622	RESISTOR METAL GLAZED (CHIP)	220 OHM 1/8 W 2012 5.00% D	ROHM	R5
2	15	ORD1001E672	RESISTOR METAL GLAZED (CHIP)		ROHM	R3, R4
1	16	ORD2001E672	RESISTOR METAL GLAZED (CHIP)	2K OHM 1/8 W 5% 2012 R/TP	ROHM	R2
6	17	ORD4701E672		4.7K OHM 1/8 W 5% 2012 R/TP	ROHM	R1, R7, R21-R24
1	18	ORD1004E672	RESISTOR METAL GLAZED (CHIP)		ROHM	R6
9	19	ORJ8200H672	RESISTOR METAL GLAZED (CHIP)	020 OHW 1/2 W 3/8 2012 N/H	ROHM	R8-R16
2	20	ORH2001L622	RESISTOR METAL GLAZED (CHIP)	2K OHM 1/8 W 2012 5.00% D	ROHM	R17,R19
2	21	0RH1000L622	RESISTOR METAL GLAZED (CHIP)	100 OHM 1/2 W 5% 2012 R/TP	ROHM	R18-R20
1	22			RLZ OHM R/TP LLDS(LL-34) 500MW 5.6V 20MA .PF	ROMH	ZDI
5	23	ODSRM00068A	DIODE SWITCHING	RLS4148 ROHM R/TP LLDS(LL-34) 75V 450MA 2000MA	ROHM	D108-D112
-	24	0DD414809AA	DIODE SWITCHING	IN4149 26 MM	PYUNG CHANG DELTA	
2	25	6327JB8001A	DISPLAY LED ASSEMBLY	LN4023-13EWRS GREEN 2.1V 1.7MCD	LEDTECH	SEG1, SEG2
4	26		LED	LTB323-41-BCN 2.1V D3 TP GREEN	LEDTECH	L102-L105
	27		LED	LT8323-41-BCN 2.1V D3 TP GREEN	LEDTECH	L101,L107
1	28	6908JB3002D	BUZZER	PQ272207PL-20C-2000 SUNWAY PIEZO 2KHZ 80DB (CHINA)	SUNWAY	BUZZER
1.1	00	6600JB8005A	SWITCH TACT	KPT-1105A	KYUNG IN	SW102-SW105
4	29	6600RRT002K	will the state of	JTP1230A JEL 12V DC 50MA	JEL	3H1025H100
,	20	6600JB8004A	SWITCH TACT	KPT-1109R	KYUNG IN	SW106
	30		omidi vioi	KPT-1109G	KYUNG IN	38100
2g	31	49111001	SOLDER, SOLDERING	SOLDER (ROSIN WIRE) ISO	HUSUNG	
5g	32		SOLDER, SOLDERING	H63A	HUSUNG	-
0.5g	33	59333105	FLUX	SG; 0.825-0.830 KOREA F.H-206	KOK1	-

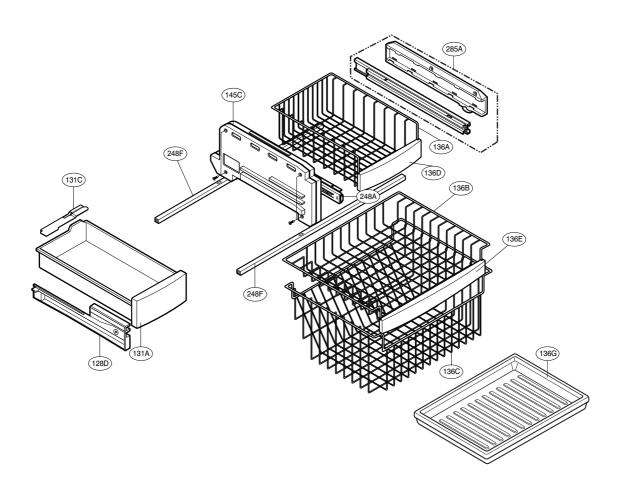


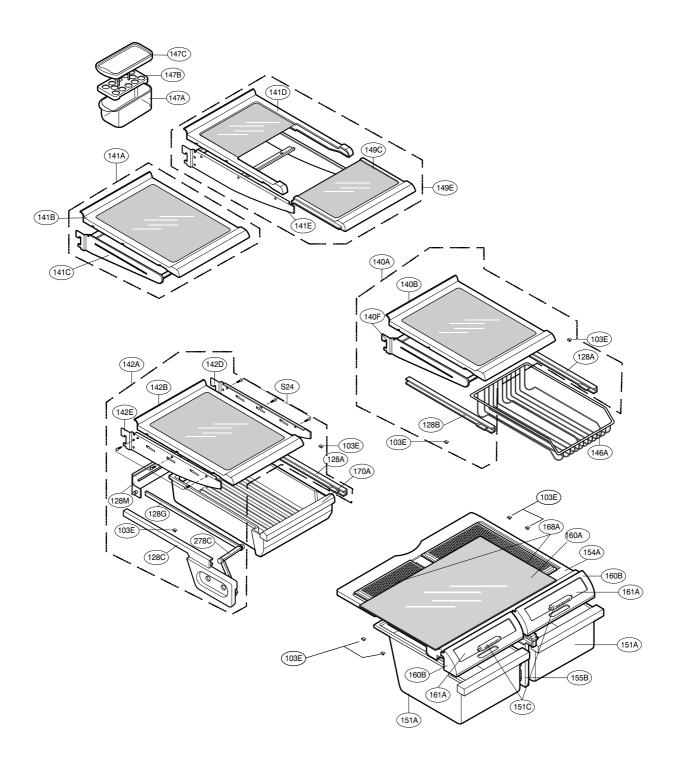


9. EXPLODED VIEW & REPLACEMENT PARTS LIST

CASE PARTS

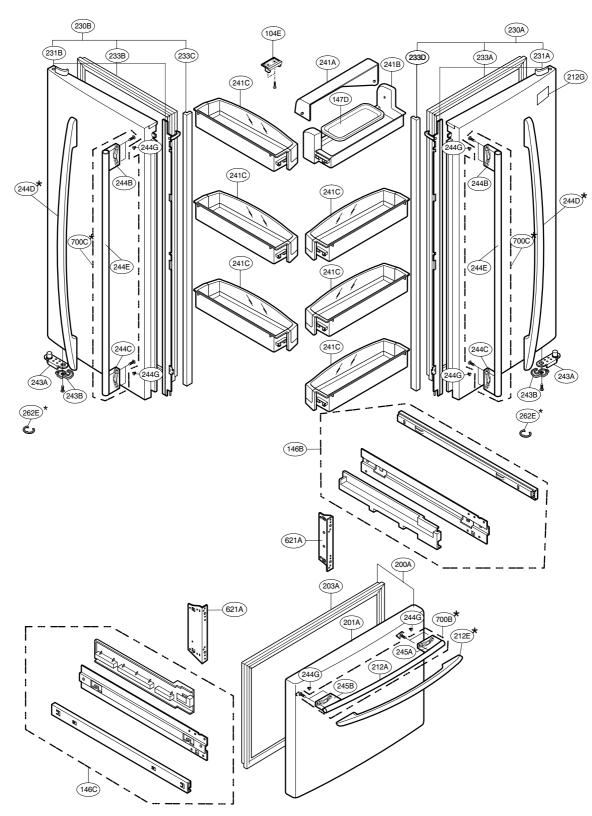




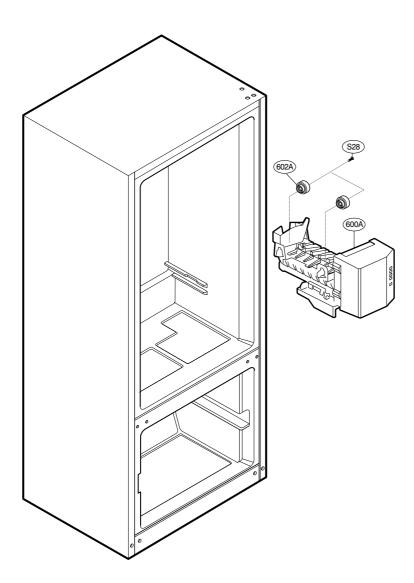


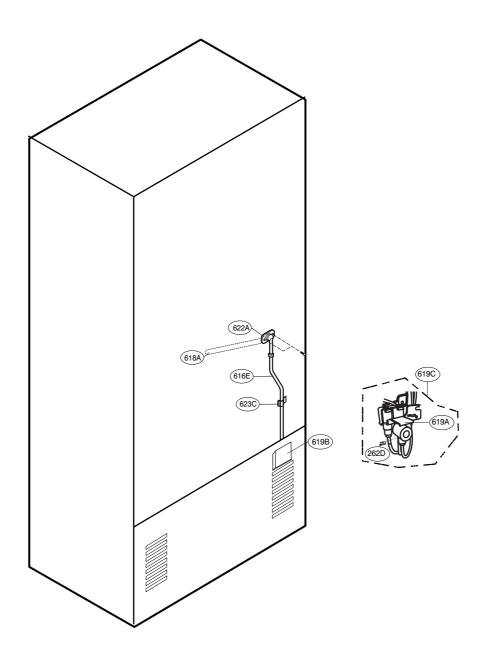
*: on some models

DOOR PARTS



*: on some models





LOC	DESCRIPCION	LRFC22750TT	LRFC22750SW	LRFC22750ST
103A	HANDLE,BACK	3650JJ2003H	3650JJ2003E	3650JJ2003L
103B	HANDLE,BACK	3650JJ2003D	3650JJ2003A	3650JJ2003M
103C	COVER ASSEMBLY,LOWER	3551JJ1015H	3551JJ1015B	3551JJ1015F
103E	RAIL,SLIDE	5218JJ3001A	5218JJ3001A	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A	5218JJ3001A	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A	5218JJ3001A	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A	5218JJ3001A	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A	5218JJ3001A	5218JJ3001A
103E	RAIL,SLIDE	5218JJ3001A	5218JJ3001A	5218JJ3001A
104E	HOLDER ASSEMBLY, GASKET	4931JJ3002A	4931JJ3002A	4931JJ3002A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	5251JA3003B	5251JA3003B
105F	SKIRT,LOWER	5070JJ3002A	5070JJ3002A	5070JJ3002A
106A	LEG ASSEMBLY, ADJUST	4779JA2003A	4779JA2003A	4779JA2003A
120B	DUCT ASSEMBLY, MULTI	5209JJ1002A	5209JJ1002A	5209JJ1002A
128A		4975JJ2002A	4975JJ2002A	4975JJ2002A
128A		4975JJ2002A	4975JJ2002A	4975JJ2002A
128B	GUIDE ASSEMBLY, RAIL	4975JJ2002B	4975JJ2002B	4975JJ2002B
128C	GUIDE BAIL	4975JJ2003C 4974JJ2035A	4975JJ2003C 4974JJ2035A	4975JJ2003C 4974JJ2035A
128D 128E	GUIDE,RAIL HOLDER,RAIL	4974JJ2035A 4930JJ1011C	4930JJ1011C	4930JJ1011C
128F	HOLDER,RAIL	4930JJ1011D	4930JJ1011D	4930JJ1011D
128G		4520JJ2001A	4520JJ2001A	4520JJ2001A
128M		4974JJ2011A	4974JJ2011A	4974JJ2011A
131A	BANK,ICE	5074JL1001B	5074JL1001B	5074JL1001B
131C	COVER,BANK ICE	3550JJ2045A	3550JJ2045A	3550JJ2045A
135C		3550JJ2030A	3550JJ2030A	3550JJ2030A
136A		3390JJ1062A	3390JJ1062A	3390JJ1062A
136B	TRAY,DRAWER	3390JJ1059A	3390JJ1059A	3390JJ1059A
136C	TRAY ASSEMBLY, DRAWER	3391JJ1012C	3391JJ1012C	3391JJ1012C
136D	DECO,TRAY	3806JL1020B	3806JL1020B	3806JL1020B
136E	DECO,TRAY	3806JL1024B	3806JL1024B	3806JL1024B
	TRAY,DRAWER	3390JJ1036A	3390JJ1036A	3390JJ1036A
	SHELF ASSEMBLY,R	5027JJ1014D	5027JJ1014D	5027JJ1014D
140B	SHELF ASSEMBLY,R	5027JJ1005A	5027JJ1005A	5027JJ1005A
140F	SHELF ASSEMBLY, NET	5027JJ2005F	5027JJ2005F	5027JJ2005F
141A	SHELF ASSEMBLY,R	5027JJ1014B	5027JJ1014B	5027JJ1014B
141B	SHELF ASSEMBLY,R	5027JJ1005A	5027JJ1005A	5027JJ1005A
141C	SHELF ASSEMBLY, NET	5027JJ2005C	5027JJ2005C	5027JJ2005C
141D	SHELF ASSEMBLY,R	5027JJ2011B	5027JJ2011B	5027JJ2011B
141E	SHELF ASSEMBLY, NET	5027JJ2005D	5027JJ2005D	5027JJ2005D
142A	SHELF ASSEMBLY,R	5027JJ1013U	5027JJ1013U	5027JJ1013U
142B 142D	SHELF ASSEMBLY,R	5027JJ1006A 5026JJ2001L	5027JJ1006A 5026JJ2001L	5027JJ1006A 5026JJ2001L
142D 142E	SHELF,NET SHELF,NET	5026JJ2001L 5026JJ2001M	5026JJ2001L 5026JJ2001M	5026JJ2001L
142E		4930JJ2001M	4930JJ2001M	4930JJ2001M
	HOLDER,SHELF	4930JJ2003A 4930JJ2004A	4930JJ2003A	4930JJ2003A
1400	IIIOLDEN,SI ILLI	4/00JJZ004A	7/JUJJZUU4M	4/5033Z004M

LOC	DESCRIPCION	LRFC22750TT	LRFC22750SW	LRFC22750ST
145C	GUIDE ASSEMBLY, RAIL	4975JJ1001C	4975JJ1001C	4975JJ1001C
146A	· · · · · · · · · · · · · · · · · · ·	5044JJ1001A	5044JJ1001A	5044JJ1001A
146B	CONNECTOR ASSEMBLY (MECH)	5098JJ2002H	5098JJ2002H	5098JJ2002H
146C	CONNECTOR ASSEMBLY (MECH)	5098JJ2002G	5098JJ2002G	5098JJ2002G
147A	BANK,DAIRY	5074JJ1005A	5074JJ1005A	5074JJ1005A
147B	TRAY,EGG	3390JJ1014A	3390JJ1014A	3390JJ1014A
147C	COVER,BANK	3550JJ1017A	3550JJ1017A	3550JJ1017A
	TRAY,BUTTER	3390JJ2003A	3390JJ2003A	3390JJ2003A
	SHELF ASSEMBLY,R	5027JJ2010B	5027JJ2010B	5027JJ2010B
149E	SHELF ASSEMBLY,R	5027JJ2009B	5027JJ2009B	5027JJ2009B
	TRAY ASSEMBLY, VEGETABLE	3391JJ1019E	3391JJ1019E	3391JJ1019E
151C	knob,shutter	4940JJ2003B	4940JJ2003B	4940JJ2003B
154A		3550JJ1033A	3550JJ1033A	3550JJ1033A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A	4981JJ2001A	4981JJ2001A
158A	COVER,LAMP	3550JJ1040A	3550JJ1040A	3550JJ1040A
158E	COVER,LAMP	3550JJ1051A	3550JJ1051A	3550JJ1051A
160A	GLASS,SHELF	4890JL1002K	4890JL1002K	4890JL1002K
160B	DECO,TRAY	3806JL2005D	3806JL2005D	3806JL2005D
161A	COVER,TRAY	3550JJ2026A	3550JJ2026A	3550JJ2026A
168A	COVER,MAGIC ROOM	3550JJ1035A	3550JJ1035A	3550JJ1035A
	TRAY ASSEMBLY, MEAT	3391JJ2004K	3391JJ2004K	3391JJ2004K
200A	DOOR ASSEMBLY,F	3581JJ8058P	3581JJ8058N	3581JJ8058E
201A		5433JJ0022W	5433JJ0022U	5433JJ0022M
203A		4987JJ1004A	4987JJ1004A	4987JJ1004E
212A	HANDLE,F	3650JJ1041A	3650JJ1041B	3650JJ1040A
	MARK	3846JD1007B	3846JD1007B	3846JD1007B
230A	DOOR ASSEMBLY,R/R	3581JJ8056J	3581JJ8056H	3581JJ8056D
230B	DOOR ASSEMBLY,R/L	3581JJ8057L	3581JJ8057K	3581JJ8055C
231A	DOOR FOAM ASSEMBLY,R	5433JJ0063G	5433JJ0063C	5433JJ0063E
231B	DOOR FOAM ASSEMBLY,R	5433JJ0061M	5433JJ0061L	5433JJ0061C
233A	GASKET ASSEMBLY, DOOR	4987JJ2003E	4987JJ2003E	4987JJ2003F
233B	GASKET ASSEMBLY, DOOR	4987JJ2003G	4987JJ2003G	4987JJ2003H
	COVER ASSEMBLY, FRONT	3551JJ2034B	3551JJ2034B	3551JJ2034B
233D	COVER ASSEMBLY, FRONT	3551JJ2034A	3551JJ2034A	3551JJ2034A
	COVER,TRAY	3550JL2006A	3550JL2006A	3550JL2006A
	BANK,DAIRY	5074JJ1019A	5074JJ1019A	5074JJ1019A
	BASKET ASSEMBLY, DOOR	5005JJ2022A	5005JJ2022A	5005JJ2022A
	STOPPER, DOOR	4620JJ3006D	4620JJ3006A	4620JJ3006C
	STOPPER,DOOR	4620JJ3006D	4620JJ3006A	4620JJ3006C
243B	STOPPER,DOOR	4620JJ2009A	4620JJ2009A	4620JJ2009A
243B	STOPPER, DOOR	4620JJ2009A	4620JJ2009A	4620JJ2009A
	HOLDER,HANDLE	4930JJ2018B	4930JJ2018A	4930JJ2018B
244C	HOLDER,HANDLE	4930JJ2017B	4930JJ2017A	4930JJ2017B
				0.450
244E	HANDLE ASSEMBLY,R	3650JA1221C	3651JA2269D	3650JA2158A
244E 244G		3650JA1221C 4620JJ3007B 4930JJ2019B	3651JA2269D 4620JJ3007B 4930JJ2019A	3650JA2158A 4620JJ3007B 4930JJ2019B

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328B RUBBER, DAMPING 4J04328A 4J04328A 4J04328A 329A FAN ASSEMBLY 5901JJ1005A 5901JJ1005A 5901JJ1005A 329C FAN ASSEMBLY 5901JJ1004B 5901JJ1004B 5901JJ1004B 332A GRILLE ASSEMBLY, FAN 3531JJ1004A 3531JJ1004A 3531JJ1004A 401A CONTROLLER ASSEMBLY (CIRC) 6615JB2005C 6615JB2005C 6615JB2005C 402A SWITCH, [PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY, REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY, MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER, MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A	327A	CAP, DRAIN PIPE	5006JA3034A	5006JA3034A	5006JA3034A
329A FAN ASSEMBLY 5901JJ1005A 5901JJ1005A 5901JJ1005A 329C FAN ASSEMBLY 5901JJ1004B 5901JJ1004B 5901JJ1004B 332A GRILLE ASSEMBLY,FAN 3531JJ1004A 3531JJ1004A 3531JJ1004A 401A CONTROLLER ASSEMBLY(CIRC) 6615JB2005C 6615JB2005C 6615JB2005C 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A	328B	RUBBER, DAMPING	4J04328A	4J04328A	4J04328A
329C FAN ASSEMBLY 5901JJ1004B 5901JJ1004B 5901JJ1004B 332A GRILLE ASSEMBLY,FAN 3531JJ1004A 3531JJ1004A 3531JJ1004A 401A CONTROLLER ASSEMBLY(CIRC) 6615JB2005C 6615JB2005C 6615JB2005C 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A	328B	RUBBER, DAMPING	4J04328A	4J04328A	4J04328A
332A GRILLE ASSEMBLY,FAN 3531JJ1004A 3531JJ1004A 3531JJ1004A 401A CONTROLLER ASSEMBLY(CIRC) 6615JB2005C 6615JB2005C 6615JB2005C 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A	329A	FAN ASSEMBLY	5901JJ1005A	5901JJ1005A	5901JJ1005A
332A GRILLE ASSEMBLY,FAN 3531JJ1004A 3531JJ1004A 3531JJ1004A 401A CONTROLLER ASSEMBLY(CIRC) 6615JB2005C 6615JB2005C 6615JB2005C 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A	329C	FAN ASSEMBLY	5901JJ1004B	5901JJ1004B	5901JJ1004B
401A CONTROLLER ASSEMBLY(CIRC) 6615JB2005C 6615JB2005C 6615JB2005C 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2001A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A			3531JJ1004A	3531JJ1004A	3531JJ1004A
402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A					
402A SWITCH,[PUSH] 6600JB3007B 6600JB3007A 6600JB3007E 404A MOTOR ASSEMBLY,REF FAN 4681JK1004A 4681JK1004A 4681JK1004A 405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A		, , ,			
404A MOTOR ASSEMBLY, REF FAN 4681 JK1004A 4681 JK1004A 4681 JK1004A 405A BRACKET ASSEMBLY, MOTOR 4811 JJ2002A 4811 JJ2002A 4811 JJ2002A 405B RUBBER, MOTOR-N 5040 JJ2001A 5040 JJ2001A 5040 JJ2001A					
405A BRACKET ASSEMBLY,MOTOR 4811JJ2002A 4811JJ2002A 4811JJ2002A 405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A					
405B RUBBER,MOTOR-N 5040JJ2001A 5040JJ2001A 5040JJ2001A					
			5040JA2009B	5040JA2009B	5040JA2009B

LOC	DESCRIPCION	LRFC22750TT	LRFC22750SW	LRFC22750ST
405F	RUBBER,MOTOR-F	5040JA2004B	5040JA2004B	5040JA2004B
405G	BRACKET ASSEMBLY, MOTOR	4811JJ2002H	4811JJ2002H	4811JJ2002H
406B	SWITCH,[PUSH]	6600JB1004A	6600JB1004A	6600JB1004A
409B	LAMP,[INCANDESCENT]	6912JK2002C	6912JK2002C	6912JK2002C
409D	REFLECTOR,LAMP	3034JJ1002B	3034JJ1002B	3034JJ1002B
410A	SOCKET ASSEMBLY, LAMP	6621JK2002D	6621JK2002D	6621JK2002D
410G	CAPACITOR, DRAWING	OCZZJB2012G	0CZZJB2012G	0CZZJB2012G
411A	POWER CORD ASSEMBLY	6411JK1006H	6411JK1006H	6411JK1006H
418A	HEATER,SHEATH	5300JB1100J	5300JB1100J	5300JB1100J
420A	MOTOR ASSEMBLY, REF FAN	4681JK1004C	4681JK1004C	4681JK1004C
501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1375A	6871JB1375A	6871JB1375A
501F	COVER,PWB	3550JJ1042B	3550JJ1042B	3550JJ1042B
503C	PWB(PCB) ASSEMBLY, DISPLAY	6871JB1374A	6871JB1374A	6871JB1374A
503D	CASE, DISPLAY	3110JJ1005A	3110JJ1005A	3110JJ1005A
503E	COVER, DISPLAY	3550JJ2032A	3550JJ2032A	3550JJ2032A
503G	DECO,CONTROL	3806JL1035A	3806JL1035A	3806JL1035A
600A	ICE MAKER ASSEMBLY,KIT	5989JA0002A	5989JA0002A	5989JA0002A
602A	HOLDER,BRACKET	4930JA3037A	4930JA3037A	4930JA3037A
610A	COVER, SENSOR	3550JJ2020A	3550JJ2020A	3550JJ2020A
616E	TUBE,PE	5210JA3005N	5210JA3005N	5210JA3005N
618A	TUBE,INJECT	5210JJ3005B	5210JJ3005B	5210JJ3005B
619A	VALVE,WATER	5220JA2009D	5220JA2009D	5220JA2009D
619B	COVER, VALVE	3550JJ2024A	3550JJ2024A	3550JJ2024A
619C	VALVE ASSEMBLY, WATER	5221JA2008G	5221JA2008G	5221JA2008G
621A	CONNECTOR (MECH), DOOR	4932JJ2001B	4932JJ2001B	4932JJ2001B
622A	TUBE,INLET	5210JJ3002A	5210JJ3002A	5210JJ3002A
623C	BAND (MECH)	4770JA3001A	4770JA3001A	4770JA3001A
700B	HANDLE ASSEMBLY,F	3651JJ2010N	3651JJ2010P	3651JA2268H
700C	HANDLE ASSEMBLY,R	3651JA2269C	3651JA2269D	3651JA2269G
903A	COVER,LOWER	3550JJ0006D	3550JJ0006A	3550JJ0006C
903B	HOLDER, COVER LOWER	4930JJ2021A	4930JJ2021A	4930JJ2021A
903D	SENSOR	6500JK1003A	6500JK1003A	6500JK1003A
903E	SENSOR	6500JK1004A	6500JK1004A	6500JK1004A
SO1	SCREW, DRAWING	1SZZJJ3010A	1SZZJJ3010A	1SZZJJ3010A
S22	SCREW, DRAWING	3J05696C	3J05696C	3J05696C
S24	SCREW, DRAWING	1SZZJA3011B	1SZZJA3011B	1SZZJA3011B
\$28	SCREW, DRAWING	3J05696W	3J05696W	3J05696W



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