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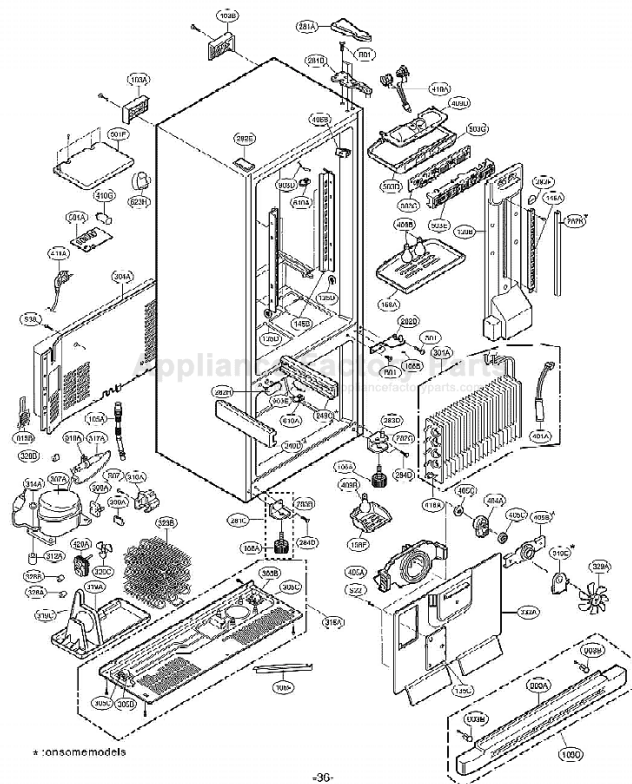


LG LRBN22525SW Owner's Manual

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CASEPARTS

CAUTION: Use the part number to order part, not the position number.



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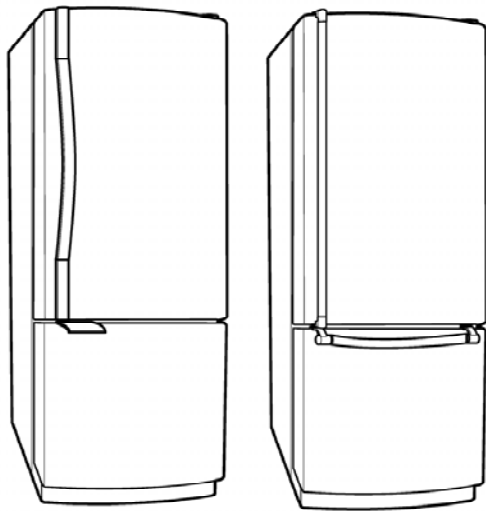


LG

REFRIGERATOR

SERVICE MANUAL

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



Models :

LRBN22510BQ
LRBN22510WW
LRBN22511SW
LRBN22511TT
LRBN22520BQ
LRBN22520WW
LRBN22525SW
LRBN22525TT

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SAFETY PRECAUTIONS

Please read the following instructions before servicing your refrigerator.

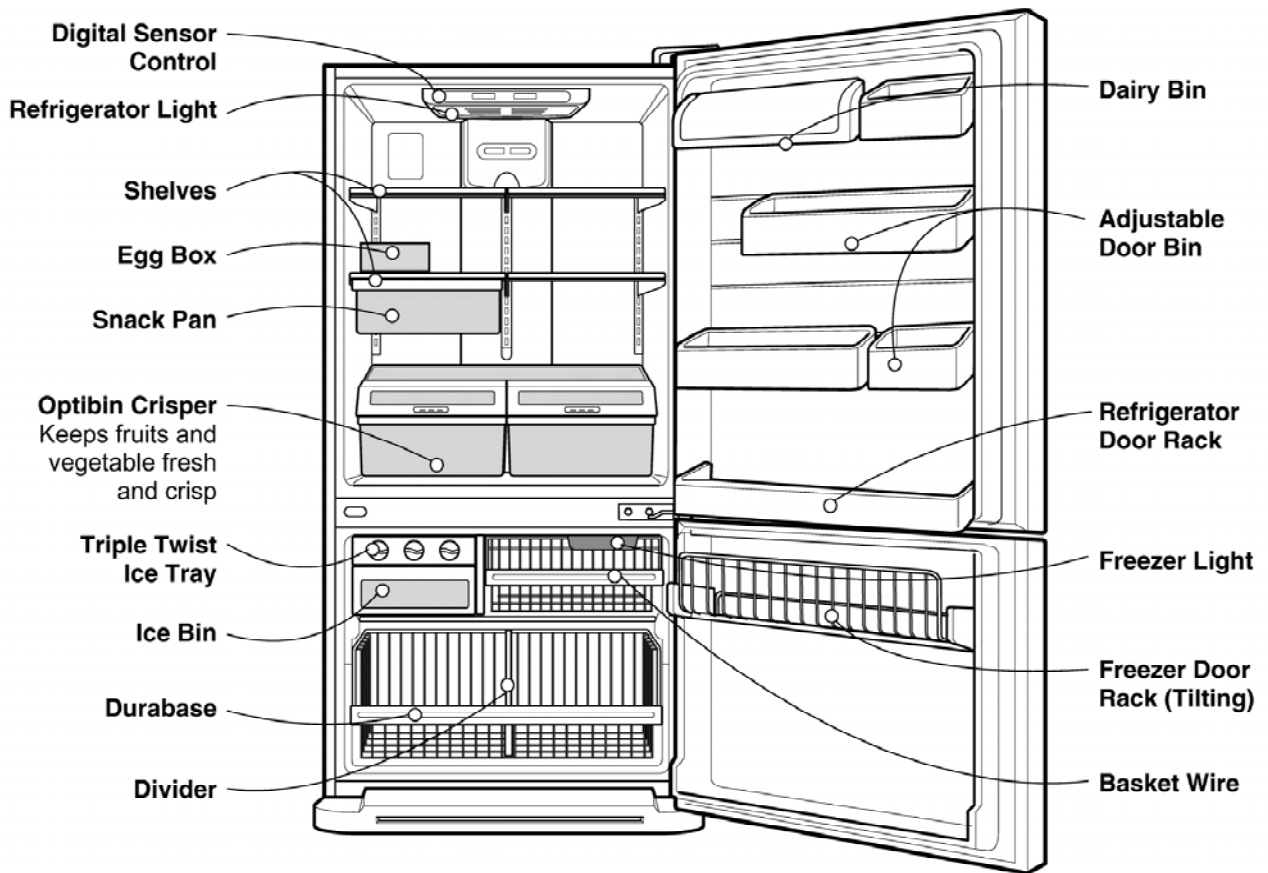
1. Check the refrigerator for electrical faults.
2. To prevent electric shock, unplug before servicing.
3. Always check line voltage and amperage.
4. Use standard electrical components.
5. Don't touch metal products in the freezer with wet hands. This may cause frostbite or cause your skin to freeze and stick to the surfaces inside the freezer.
6. Prevent water from flowing onto electric elements in the mechanical parts.
7. Close the top door before opening the bottom door. Otherwise, you might hit your head when you stand up.
8. When tilting the refrigerator, remove any materials on the refrigerator, especially the glass shelves and stored foods.
9. When servicing the evaporator, wear cotton gloves. This is to prevent injuries from the sharp evaporator fins.
10. Disassembly, repair, and servicing the sealed refrigeration system should be performed only by qualified and certified personnel. Refrigerant should not be vented into the atmosphere; proper recovery equipment should be used.

1. SPECIFICATIONS

19 cu. ft. / 22 cu. ft.

ITEMS	SPECIFICATIONS	ITEMS	SPECIFICATIONS	
DOOR DESIGN	Side Rounded	VEGETABLE TRAY	Opaque Drawer Type	
DIMENSIONS (inches)	29 7/8 x 31 3/4 x 67 7/8 (WxDxH) 20cu.ft	COMPRESSOR	PTC Starting Type	
	32 7/8 x 31 3/4 x 68 1/2 (WxDxH) 22cu.ft	EVAPORATOR	Fin Tube Type	
NET WEIGHT (pounds)	238.4 (20cu.ft)	CONDENSER	Wire Condenser	
	246.9 (22cu.ft)	REFRIGERANT	R-134a (115 g)	
COOLING SYSTEM	Fan Cooling	LUBRICATING OIL	Freol @ 10G (310 cc)	
TEMPERATURE CONTROL	Micom Control	DEFROSTING DEVICE	SHEATH HEATER	
DEFROSTING SYSTEM	Full Automatic	LAMP	REFRIGERATOR	60 W (2EA)
	Heater Defrost		FREEZER	40 W (1EA)
DOOR FINISH	Embossed Metal, VCM, Stainless			
HANDLE TYPE	Bar			
INNER CASE	ABS Resin			
INSULATION	Polyurethane Foam			

2. PARTS IDENTIFICATION

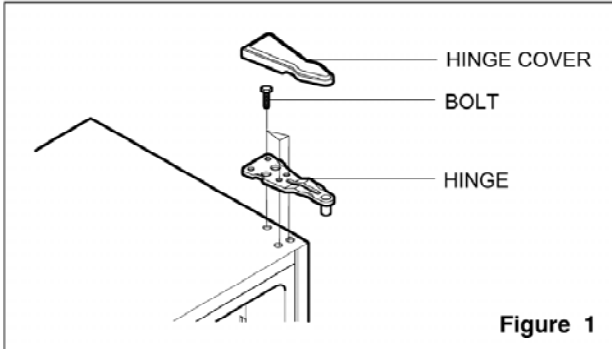


3. DISASSEMBLY

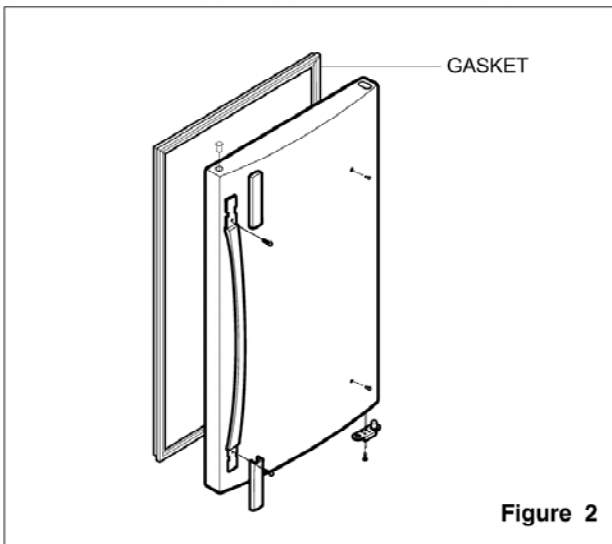
3-1 DOOR

● Refrigerator Door

1. Remove the hinge cover by pulling it upwards.
2. Loosen the hexagonal bolts attaching the upper hinge to the body and lift the freezer door.

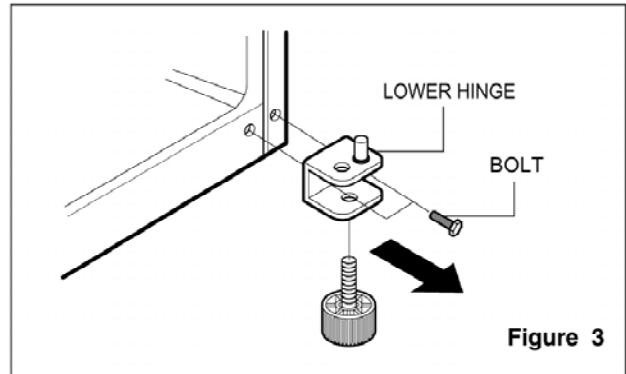


3. Pull out the door gasket to remove from the door foam assembly.



● Freezer Door

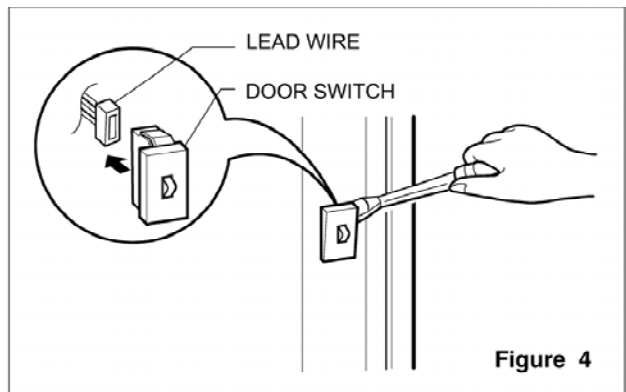
1. Loosen the hexagonal bolts attaching the lower hinge to the body to remove the refrigerator door only.



2. Pull out the door gasket to remove from the door foam assembly.

3-2 DOOR SWITCH

1. To remove the door switch, pry it out with a slotted-type driver, as shown in (Figure 4).
2. Disconnect the lead wire from the switch.



3-3 FAN AND FAN MOTOR

1. Remove the freezer shelf. (If your refrigerator has an icemaker, remove the icemaker first)
2. Remove the grille by pulling it out and by loosening a screw.
3. Remove the Fan Motor assembly by loosening 2 screws and disassemble the shroud.
4. Pull out the fan and separate the Fan Motor and Bracket.

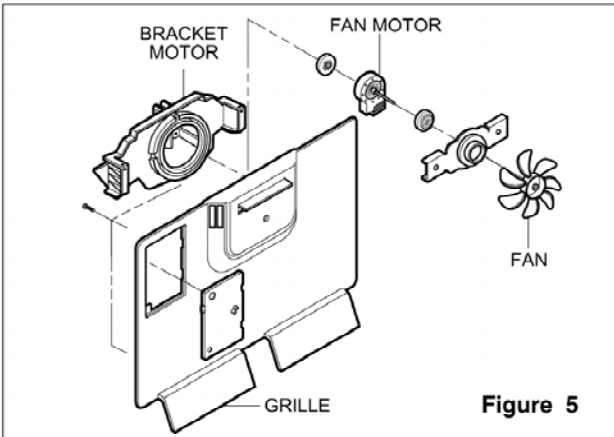


Figure 5

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 6)
2. Separate the connector with the Defrost Control assembly and replace the Defrost Control assembly after cutting the Tie Wrap. (Figure 7)

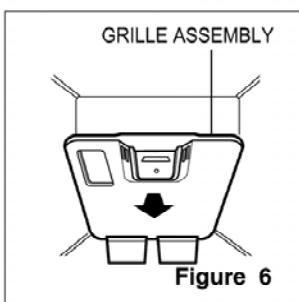


Figure 6

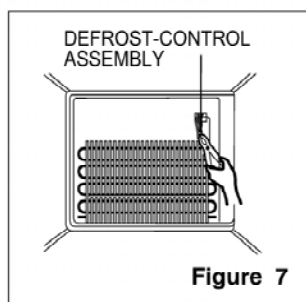


Figure 7

3-5 LAMP

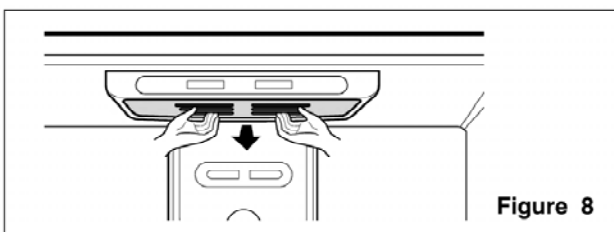


Figure 8

3-5-1 Refrigerator Compartment Lamp

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

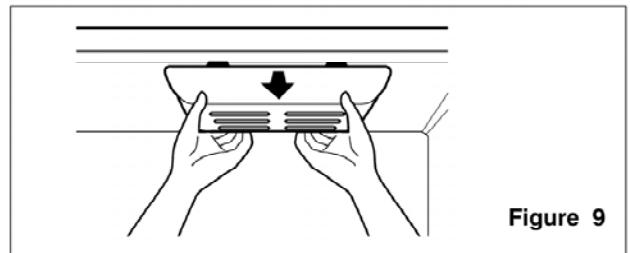


Figure 9

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 40-watt appliance bulb.
4. Plug in refrigerator or reconnect power.

3-6 CONTROL BOX-REFRIGERATOR

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

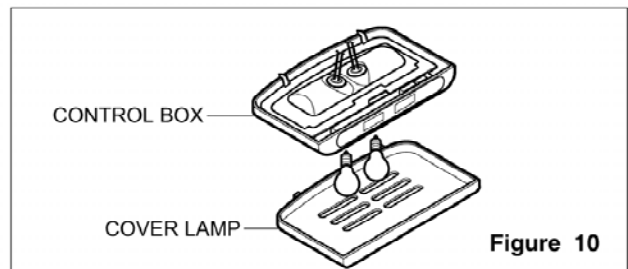


Figure 10

2. 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

1. Remove an upper and lower Cap by using a flat screwdriver, and loosen 3 screws. (Figure 11)
2. Disconnect the lead wire on the bottom position.

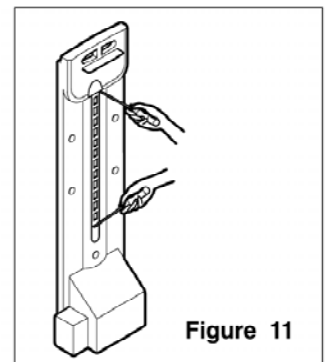


Figure 11

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. Dust, humidity, and solder flux contaminate the cylinder and may cause noise, improper operation or even cause it to lock up.

4-2 PTC-STARTER

4-2-1 Composition of PTC-Starter

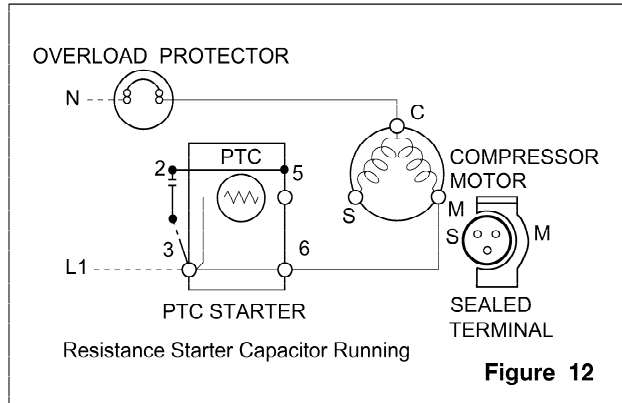
- (1) PTC (Positive Temperature Coefficient) is a no-contact semiconductor starting device which uses ceramic material consisting of BaTiO₃.
- (2) The higher the temperature is, the higher the resistance value. These features are used as a starting device for the Motor.

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. During 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.

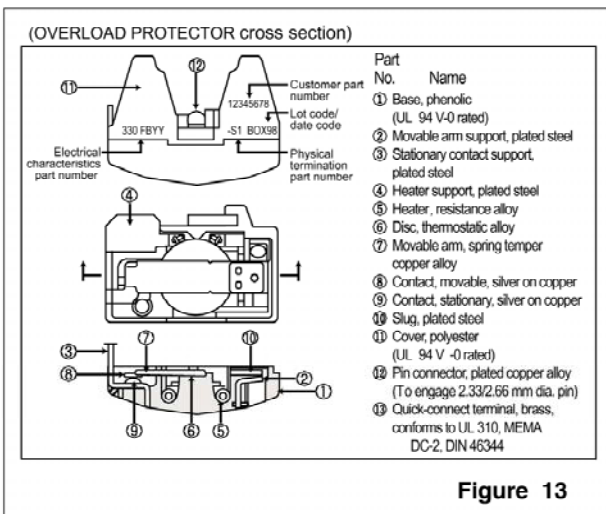
4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

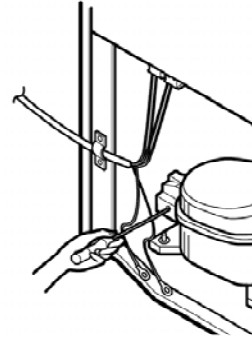
- (1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.
- (2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP,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

4-3-2 Role of the OLP

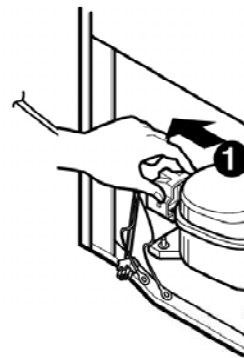
- (1) The OLP is attached to the Sealed Compressor used for the Refrigerator. It prevents the Motor Coil from being started in the Compressor.
- (2) For normal operation of the OLP, do not turn the Adjust Screw of the OLP in any way.



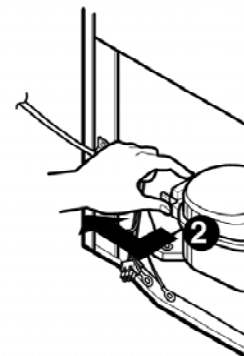
4-4 TO REMOVE THE COVER PTC



- 1) Remove the Cover Back M/C.
- (2) Remove the screw on Cover PTC.



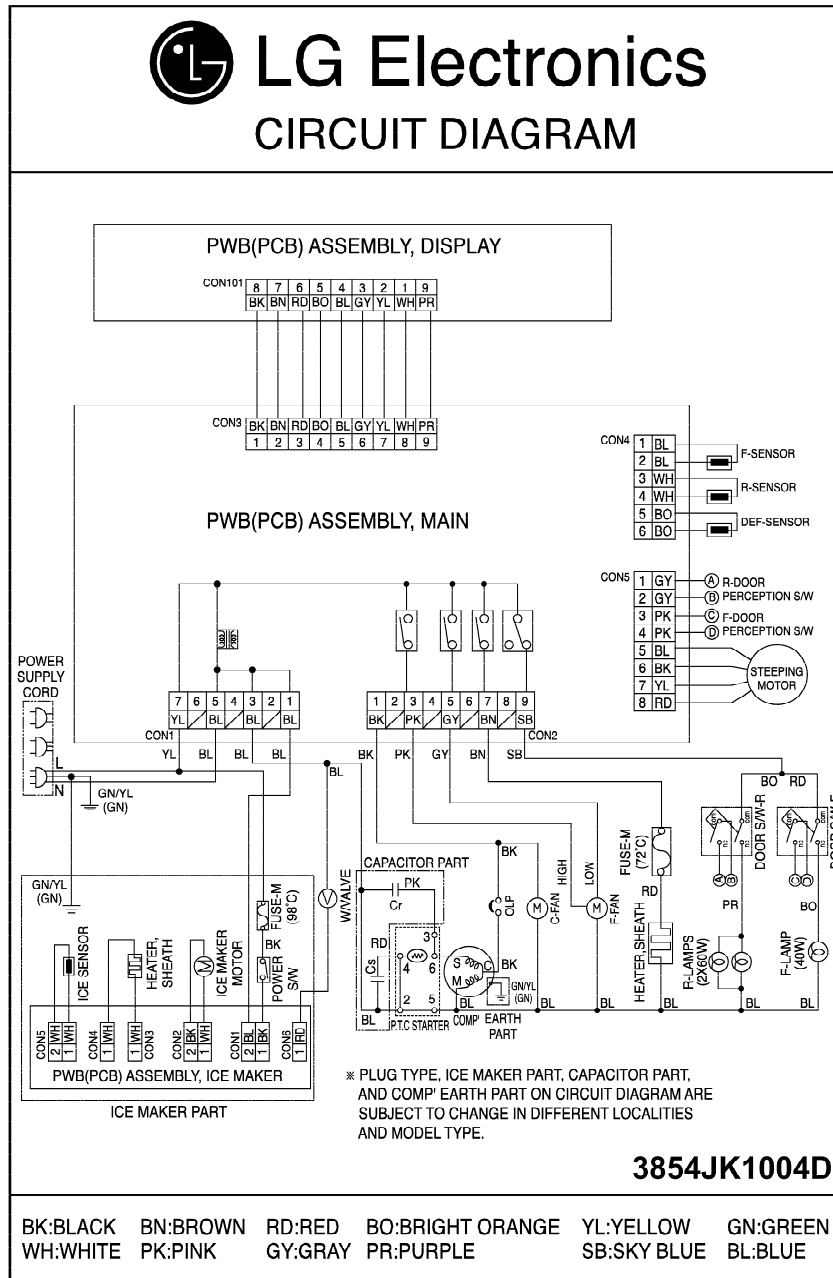
- (3) Remove two Housings on upper part of Cover PTC.
- (4) Take out the cover PTC from upper to lower position like ①.



- (5) Turn 45° in the direction of ② and take it out.
- (6) Assembly in reverse order of disassembly.

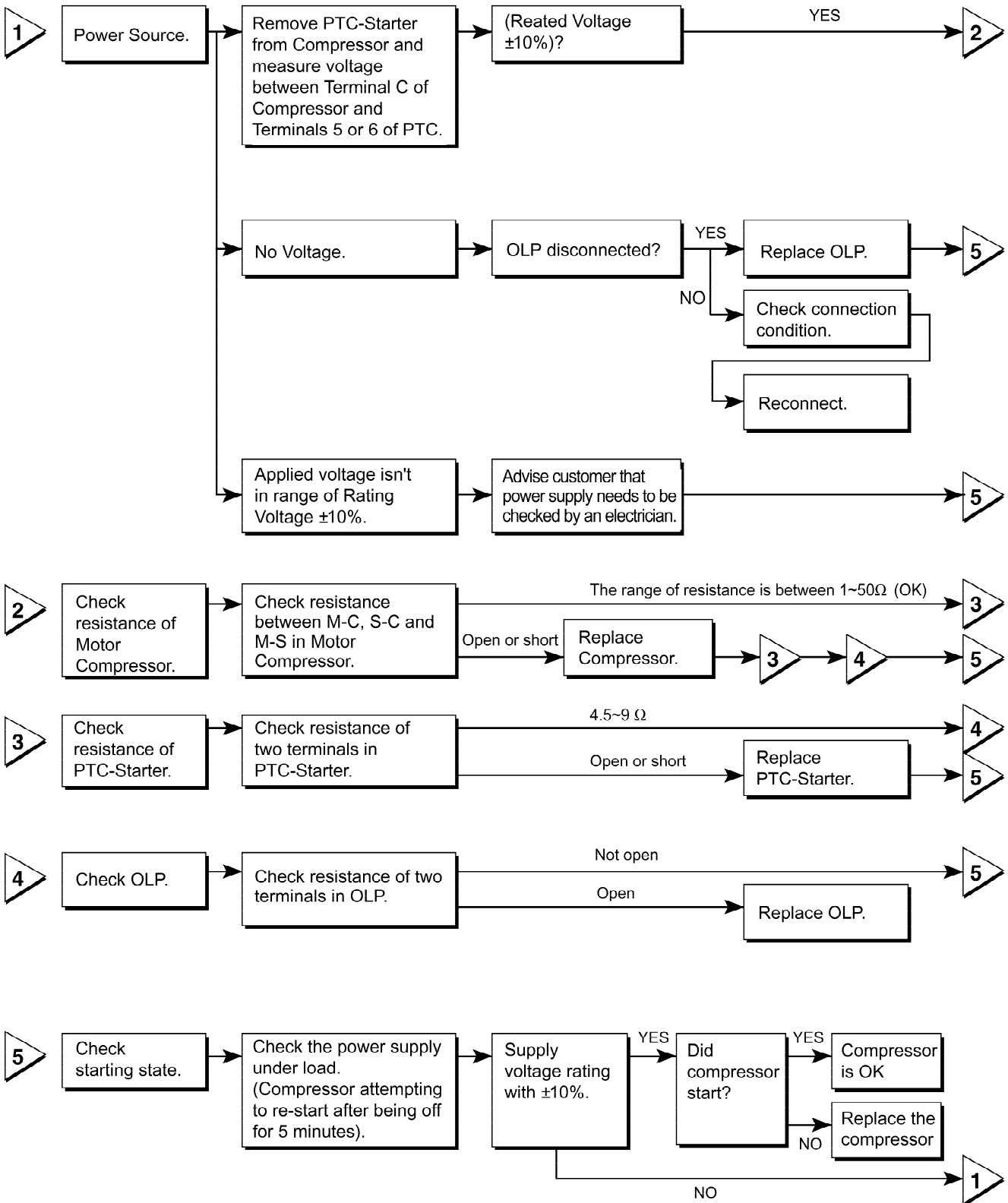
5. CIRCUIT DIAGRAM

BETTER / GOOD



6. TROUBLESHOOTING

6-1 COMPRESSOR AND ELECTRIC COMPONENTS



6-2 PTC AND OLP

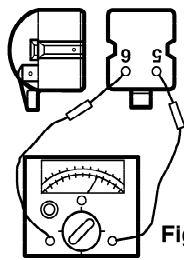
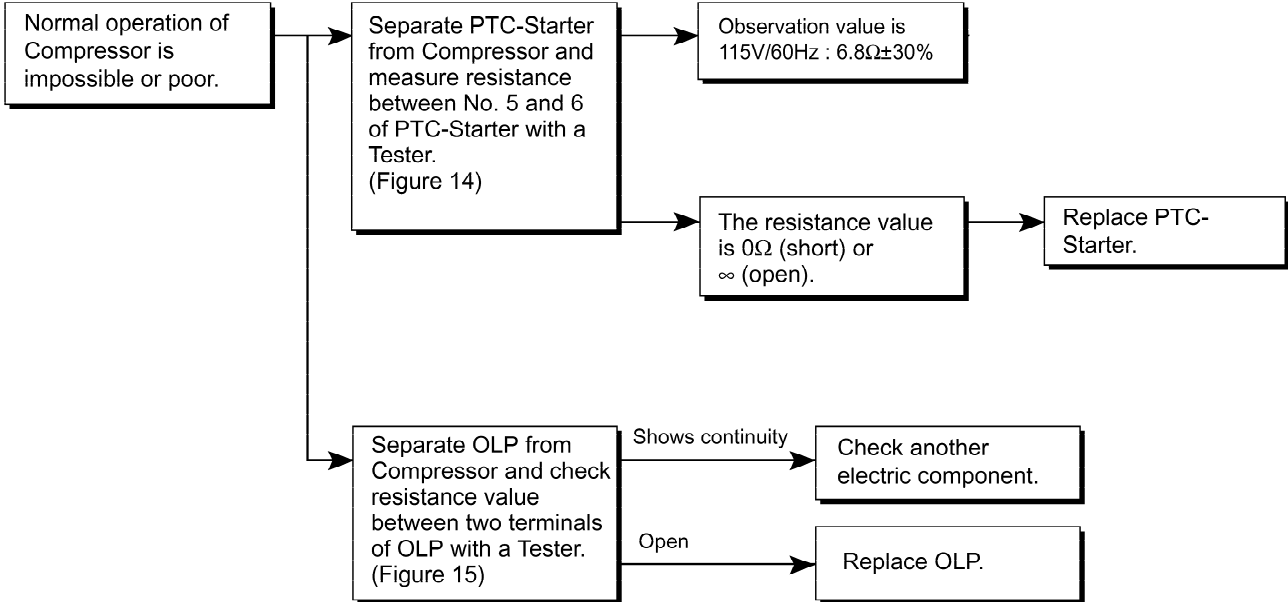


Figure 14

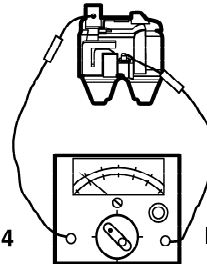
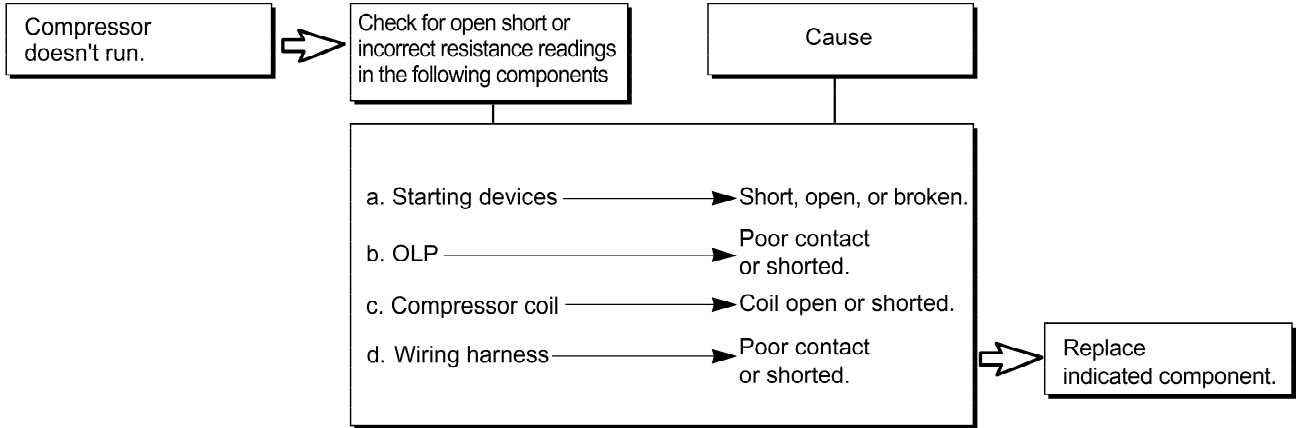


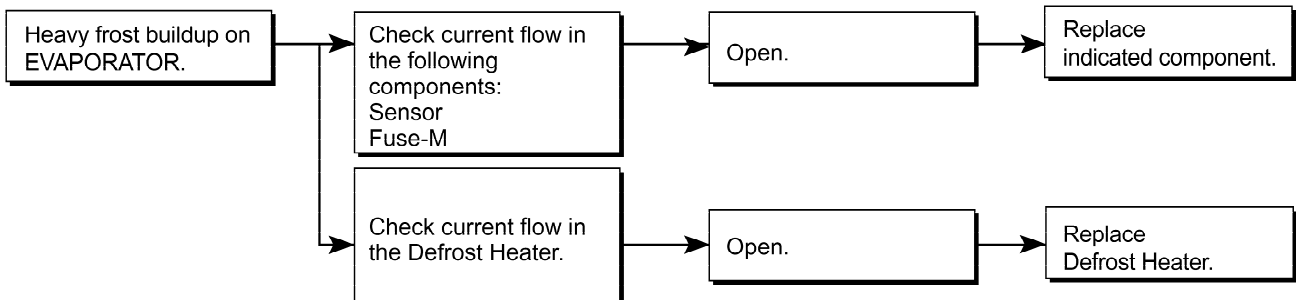
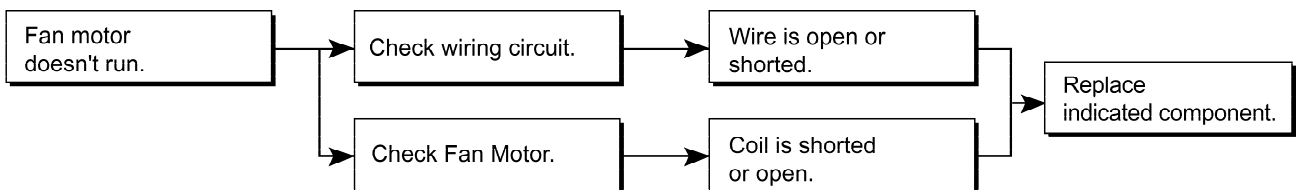
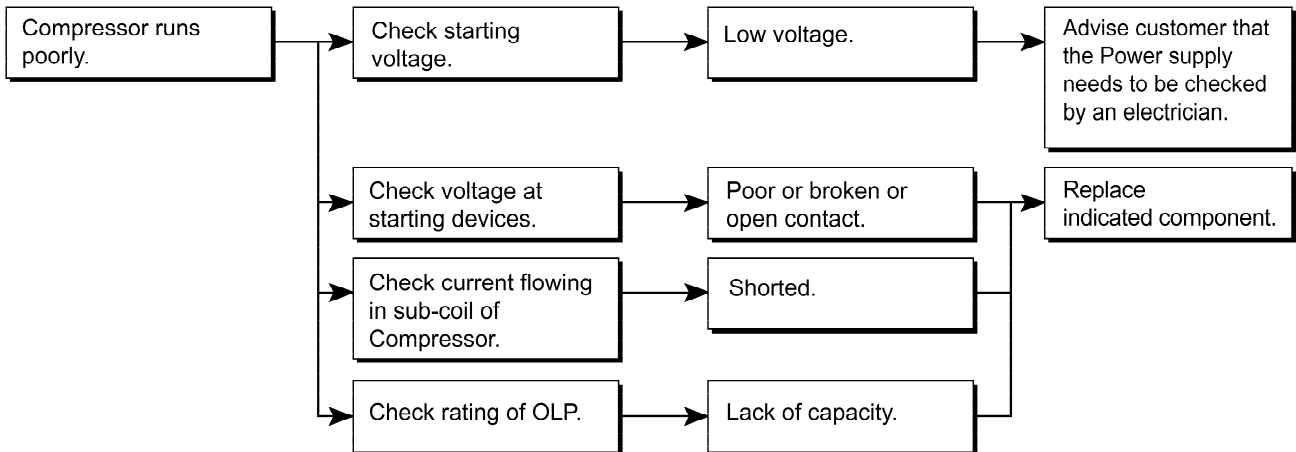
Figure 15

6-3 OTHER ELECTRICAL COMPONENTS

▼ Not cooling at all



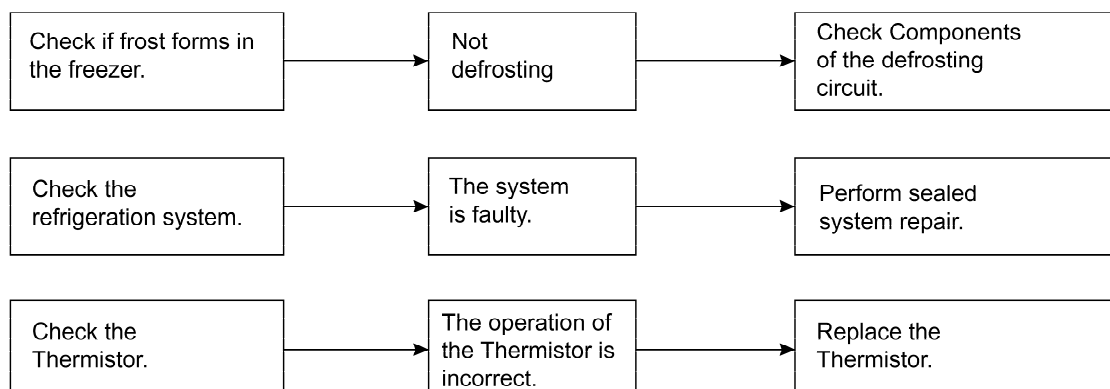
▼ Poor cooling performance



6-4 SERVICE DIAGNOSIS CHART

COMPLAINT	POINTS TO BE CHECKED	REMEDY
No Cooling.	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Plug into the outlet. • Set the switch to ON. • Replace the fuse. • If the voltage is low, correct the wiring.
Cools poorly.	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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.
Foods in the Refrigerator are frozen.	<ul style="list-style-type: none"> • Is food placed in the cooling air outlet? • Check if the control is set to colder position. • Is the ambient temperature below 41°F(5°C)? 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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? 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Check if the ambient temperature and humidity of the surrounding air are high. • Is there a gap in the door gasket? 	<ul style="list-style-type: none"> • Wipe moisture with a dry cloth. It will disappear in low temperature and humidity. • Fill up the gap.
There is abnormal noise.	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • Check if the door gasket is dirty with an item like juice. • Is the refrigerator level? • Is there too much food in the refrigerator? 	<ul style="list-style-type: none"> • Clean the door gasket. • Position in the 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.	<ul style="list-style-type: none"> • Check if the inside of the unit is dirty. • Are foods with a strong odor unwrapped? • The unit smells of plastic. 	<ul style="list-style-type: none"> • 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:



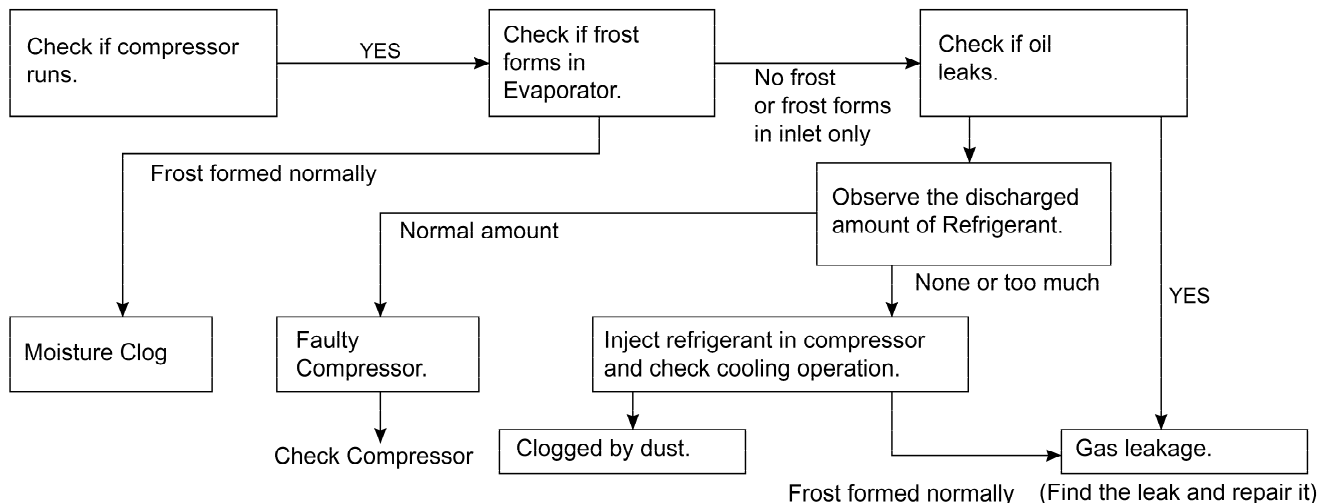
6-5 REFRIGERATION CYCLE

▼ 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.	<ul style="list-style-type: none"> Refrigerant level is low due to a leak. Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
	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.	<ul style="list-style-type: none"> No discharging of Refrigerant. Normal cooling is possible by restoring the normal amount of refrigerant and repairing the leak.
CLOGGED BY DUST	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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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 ambient temperature.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> No pressure in the high pressure part of the compressor.

▼ Leakage Detection

- Observe the discharging point of the refrigerant, which may be in the oil discharging part of the compressor and in a hole in the evaporator.



▼ General Control of Refrigerating Cycle

NO.	ITEMS	UNIT	STANDARDS	PURPOSES	REMARKS	
1	Pipe and piping system opening time	Min.	Pipe: within 1 hour. Comp: within 10 minutes. Drier: within 20 minutes.	To protect moisture penetration.	The opening time should be reduced to a half of the standards during rain and rainy seasons (the penetration of water into the pipe is dangerous).	
2	Welding	Nitrogen pressure	Weld under Nitrogen atmosphere. (N ₂ pressure: 0.1~0.2 kg/cm ²)	To protect oxide scale formation.	- Refer to repair note in each part. - R-134a refrigerant is more susceptible to leaks than R-12 and requires more care during welding. - Do not apply force to pipes before and after welding to protect pipe from cracking.	
3	N ₂ sealed parts	Confirm N ₂ leak	Confirm the sound of pressure relief when removing the rubber cap. Sound: usable No sound: not usable	To protect moisture penetration.	- In case of evaporator parts, if it doesn't make sound when removing rubber cap, blow dry air or N ₂ gas for more than 1 min. and then use the parts.	
4	Refrigeration Cycle	Evacuation time	Min.	More than 40 minutes	To remove moisture.	
		Vacuum degree	Torr	Below 0.03 (ref)		Note: Only applicable to the model equipped with reverse flow protect plate.
		Vacuum	EA	High and low pressure sides are evacuated at the same time for models above 200 l.		Vacuum efficiency can be improved by operating compressor during evacuation.
		Vacuum piping	EA	Use R-134a manifold exclusively.	To protect mixing of mineral and ester oils.	The rubber pipes for R-12 refrigerant will be melted when they are used for R-134a refrigerant (causes of leak.)
		Pipe coupler	EA	Use R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
		Outlet (Socket)		R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
		Plug		R-134a manifold exclusively.	To protect R-12 refrigerant mixing.	
5	Refrigerant weighing	EA	Use R-134a exclusively. Weighing allowance: ±5g Note: Winter: -5g Summer: +5g	Do not mix with R-12 refrigerant.	- Do not weigh the refrigerant at too hot or too cold an area. (77°F [25°C] is adequate.) - Make Copper charging canister (Device filling refrigerant) Socket: 2SV Plug: 2PV R-134a Note: Do not burn O-ring (bushing) during welding.	
6	Drier replacement		- Use R-134a exclusively for R-134a refrigerator. - Replace drier whenever repairing refrigerator cycle piping.	To remove the moisture from pipe inside.		
7	Leak check		- Do not use soapy water for check. It may be sucked into the pipe by a vacuum.	Defect in refrigerant leak area.	- Check for an oil leak at the refrigerant leak area. Use an electronic leak detector if an oil leak is not found. - The electronic leak detector is very sensitive to halogen gas in the air. It also can detect R-141b in urethane. Practice many times before using this type of detector to avoid false readings.	

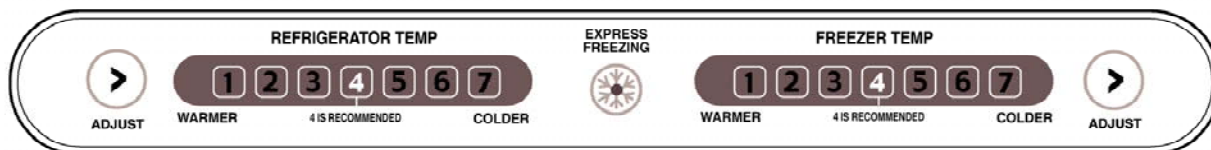
7. DESCRIPTION OF FUNCTION & CIRCUIT OF MICOM

7-1 FUNCTION

7-1-1 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".

BETTER / GOOD MODEL



7-1-2 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 express freezing, 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, express freezing Normal speed (2200RPM) : General working conditions.
5. Fan motor stops when refrigerator or freezer door opens.

7-1-3 EXPRESS FREEZING

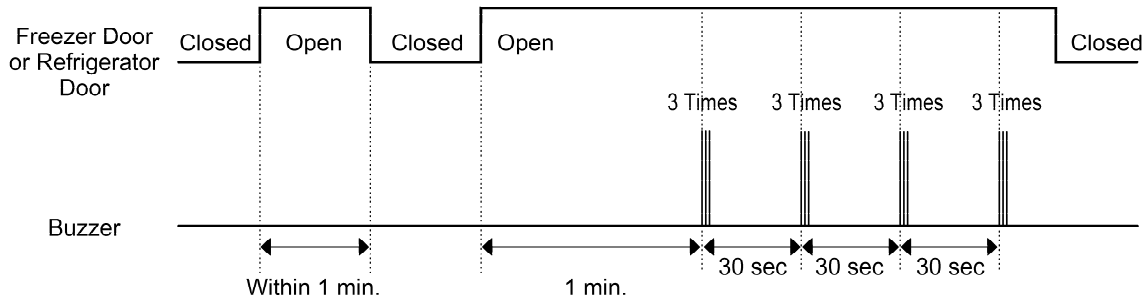
1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
3. If there is a power cut and the refrigerator is power on again, EXPRESS FREEZING function will be canceled.
4. To activate these 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 21 hours 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. 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 EXPRESS FREEZING, EXPRESS FREEZING operates for the rest of time after defrost is completed, when EXPRESS FREEZING operation time is less than 90 minutes.
If EXPRESS FREEZING operates for more than 90 minutes, the EXPRESS FREEZING will operate for two hours after defrost is completed.
 - (3) If EXPRESS FREEZING is pressed during defrost, EXPRESS FREEZING LED is on but this function will start seven minutes after defrost is completed and it shall operate for three hours.
 - (4) If EXPRESS FREEZING 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 FREEZING.
6. For the rest of 21 hours, the freezer will be controlled at the lowest temperature.

7-1-4. REFRIGERATOR LAMP AUTO OFF

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

7-1-5 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.



7-1-6 Buzzer Sound

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

7-1-7 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 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. (Refer to the defect diagnosis function, 7-1-9.)
4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

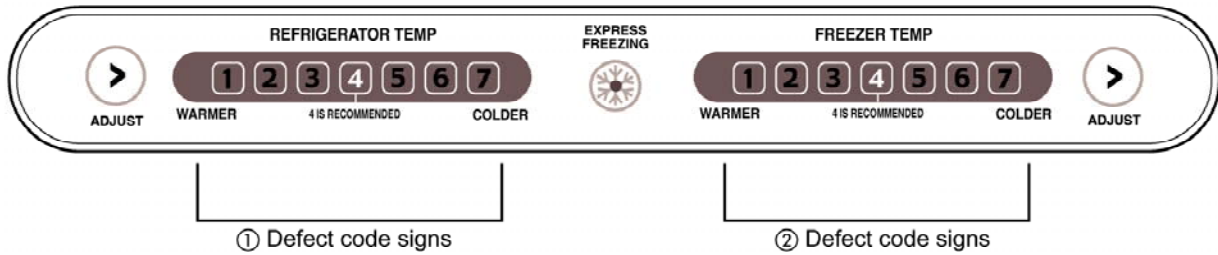
7-1-8 Electrical Parts Are Turned On Sequentially

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

7-1-9 Defect Diagnosis Function

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



ERROR CODE on display panel

NO	ITEM	ERROR CODE		CONTENTS	REMARKS
		①	②		
1	Failure of freezer sensor	All off	● ○ ○ ○ ○ ○ ○ ○	Cut or short circuit wire	Inspect Connecting wires on each sensor
2	Failure of Refrigerator sensor	All off	○ ● ○ ○ ○ ○ ○ ○	Cut or short circuit wire	
3	Failure of defrost sensor	All off	○ ○ ● ○ ○ ○ ○ ○	Cut or short circuit wire	
4	Poor of defrost	All off	● ● ● ● ○ ○ ○ ○	2hours 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)

7-1-10 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 Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds.	<ol style="list-style-type: none"> 1. Continuous operation of the COMPRESSOR 2. Continuous operation of the freezer fan 3. STEPPING DAMPER OPEN 4. Defrosting Heater OFF 5. Every DISPLAY LED ON 	
TEST2	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds in TEST MODE 1	<ol style="list-style-type: none"> 1. COMP OFF 2. Freezer FAN OFF 3. STEPPING DAMPER CLOSE 4. Defrosting heater ON 5. DISPLAY LED 1, 3, 5, 7 ON 	Reset if the temperature of the Defrosting sensor is 46°F (8°C) or more.
Reset	Push Express Freezing key and COLDER KEY of Freezer Temp. at the same time over 3 seconds. in TEST MODE 2	Reset to the previously setting before TEST MODE	The compressor will Start after a 7-minute delay.

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

* Freezer Fan RPM Variable Check:

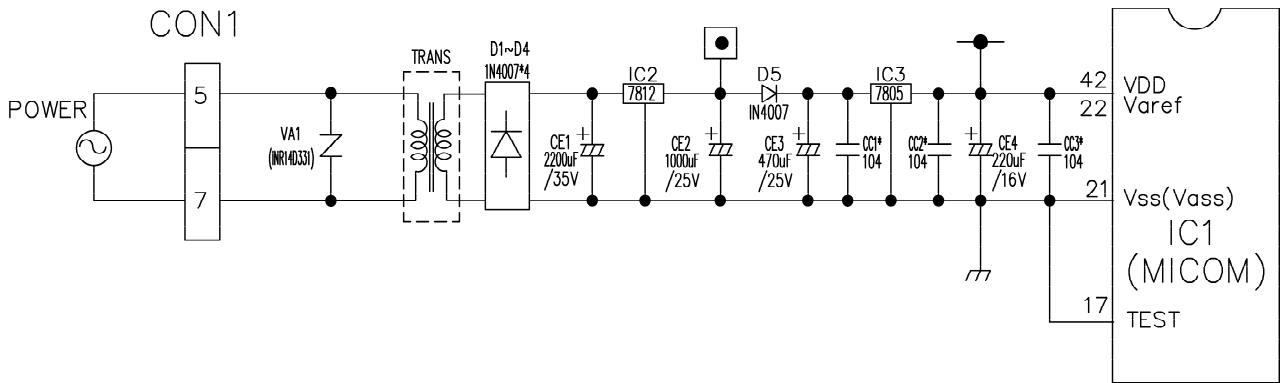
In case the freezer fan is in operation when the WARMER KEY in Refrigerator and Freezer Temp. Control are pressed for more than one second at the same time freezer fan RPM changes. (for example if high speed, to normal speed or if normal speed, to high speed for 30 seconds)
After 30 seconds, it turns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

* Demonstration MODE:

1. When the KEY of refrigerator Temp. control or of freezer Temp. control is pushed and held over 5 seconds, warmest temperature's It converts to Demonstration 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 demonstrated)
4. It reset if you do again as clause.

7-2 PCB FUNCTION

7-2-1 Power Circuit



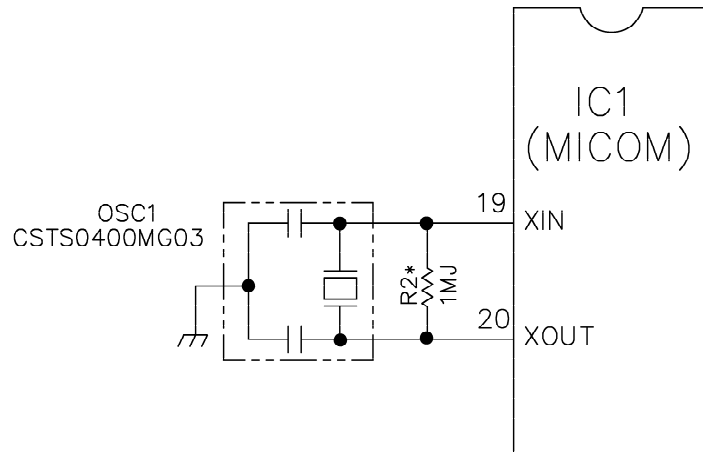
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

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

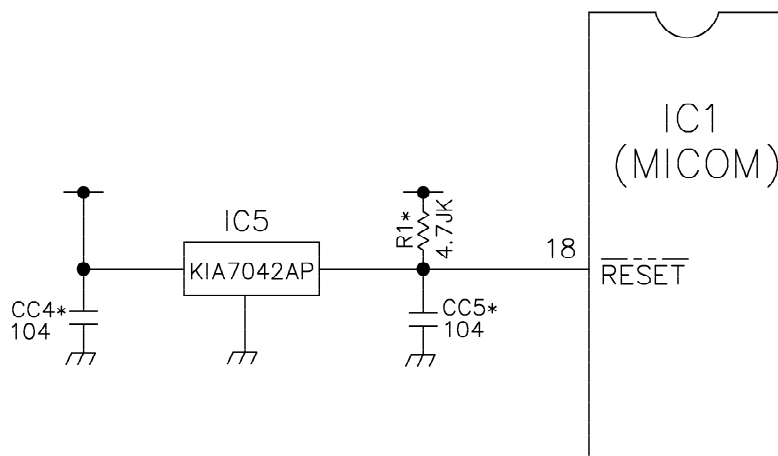
VA1 is a part for preventing over voltage and noise. When 385V or higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

7-2-2 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 specific replacement parts, since calculating time by the IC1 may be changed. If changed, the OSC1 SPEC will not work.

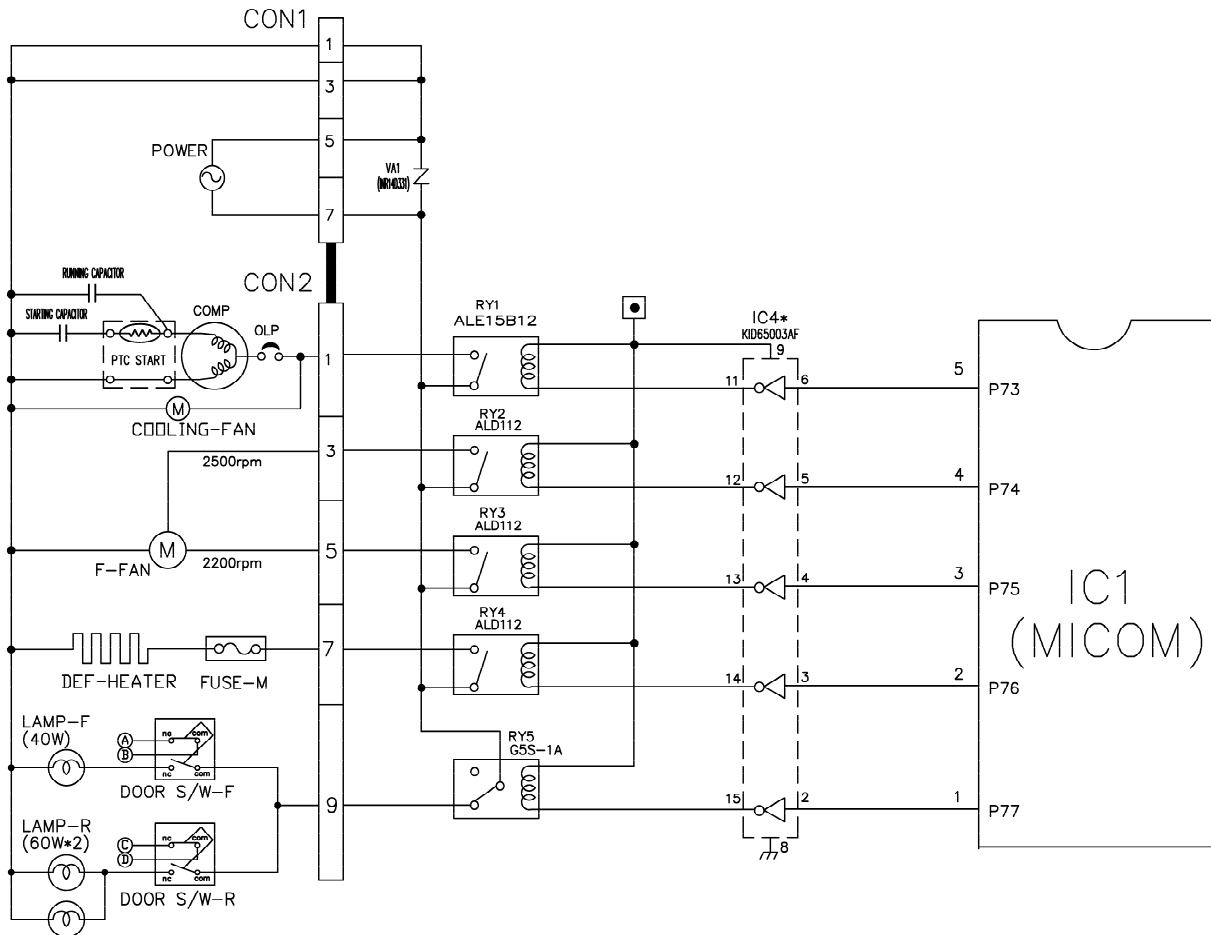
7-2-3 Reset Circuit



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.)

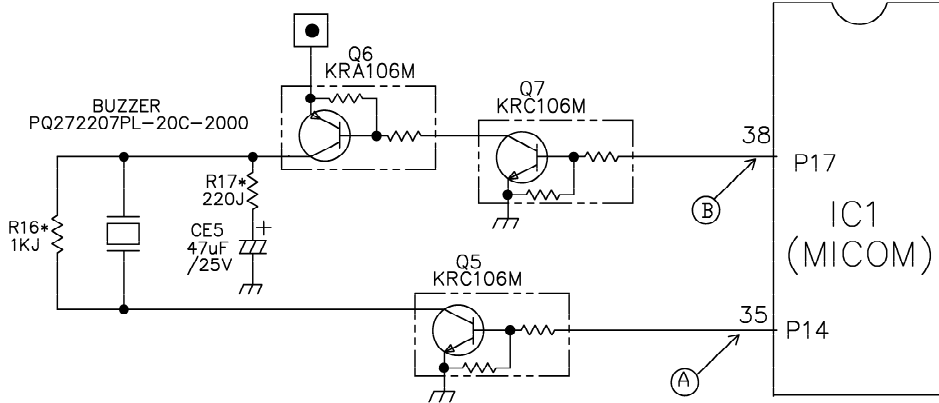
7-2-4 Load / Buzzer Drive & Open Door Detection Circuit

1. Load Drive Condition Check



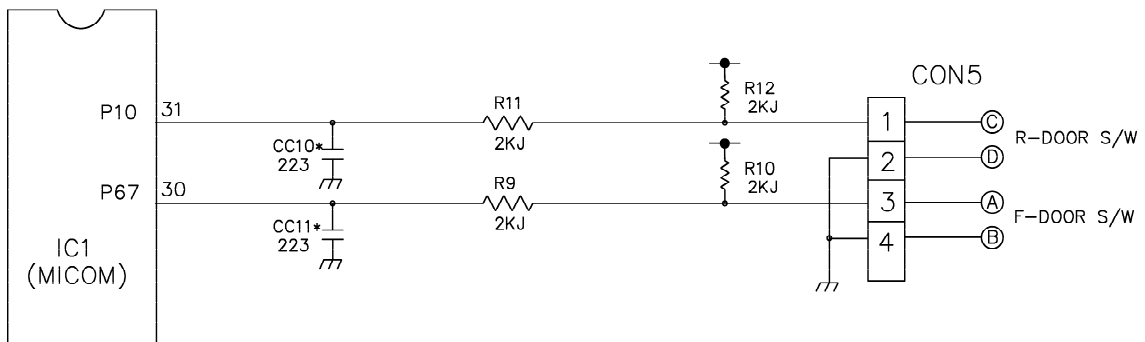
LOAD TYPE	COMP	DEFROSTING HEATER	LAMP	FREEZER FAN MOTOR (HIG RPM)	FREEZER FAN MOTOR (LOW RPM)
Measurement Location (IC4)	NO.11	NO.14	NO.15	NO.12	NO.13
Condition	ON	1V or below			
	OFF	12V			

2. Buzzer Drive Condition Check



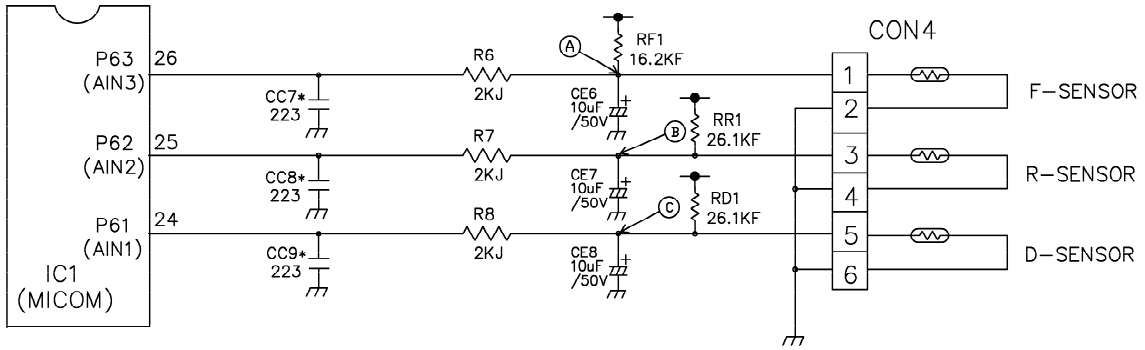
Condition Measurement Location	Tone (Ding-Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 (A)			0 V
IC1 (B)			0 V

3. Open Door Detection Circuit Check



Measurement Location	(PIN NO.31 & PIN NO.30)
Freezer/ Refrigerator Door Closed	5 V
Open	0 V

7-2-5 Temperature Sensor Circuit

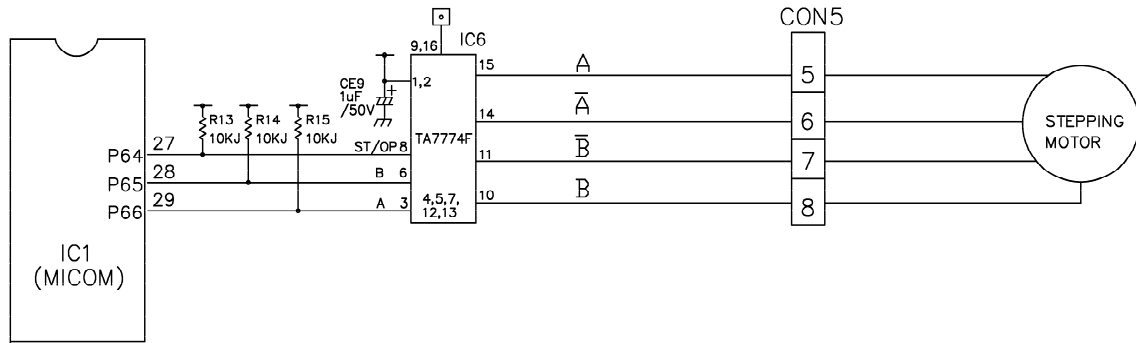


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM. OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

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

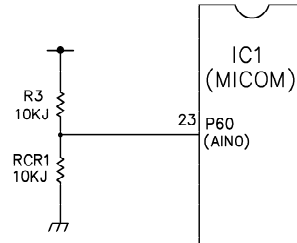
7-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

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



7-2-7 Temperature Compensation & Overcooling/Undercooling Compensation Circuit

1. Refrigerator Temperature Compensation



Refrigerator		Remark
Resistance (RCR)	Temperature Compensation	
180 KΩ	+2.5°C	Compensation by raising the temperature ↑
56 KΩ	+2.0°C	
33 KΩ	+1.5°C	
18 KΩ	+1.0°C	
12 KΩ	+0.5°C	
10 KΩ	0 °C	Standard Temperature
8.2 KΩ	-0.5°C	Compensation by lowering the temperature ↓
5.6 KΩ	-1.0°C	
3.3 KΩ	-1.5°C	
2 KΩ	-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).

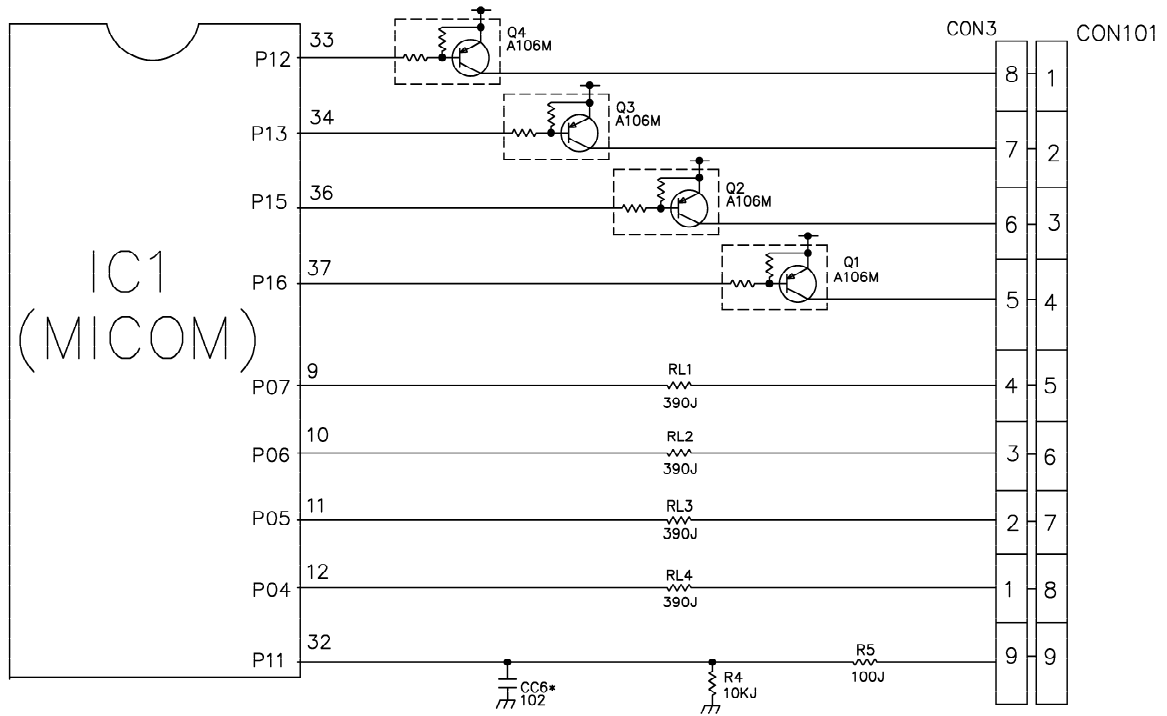
2. The temperature compensation for refrigerator compartment is in the following table:

	Revised resistance / Present resistance	470Ω	2kΩ	3.3kΩ	5.6kΩ	8.2kΩ	10kΩ	12kΩ	18kΩ	33kΩ	56kΩ	180kΩ
Refrigerator (RCR)	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°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
	10kΩ	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	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	0.5°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	0.5°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.

7-2-8 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 DISPLAY. The drive type is the scan type.



7-3 RESISTANCE SPECIFICATION OF SENSOR

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

- 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.

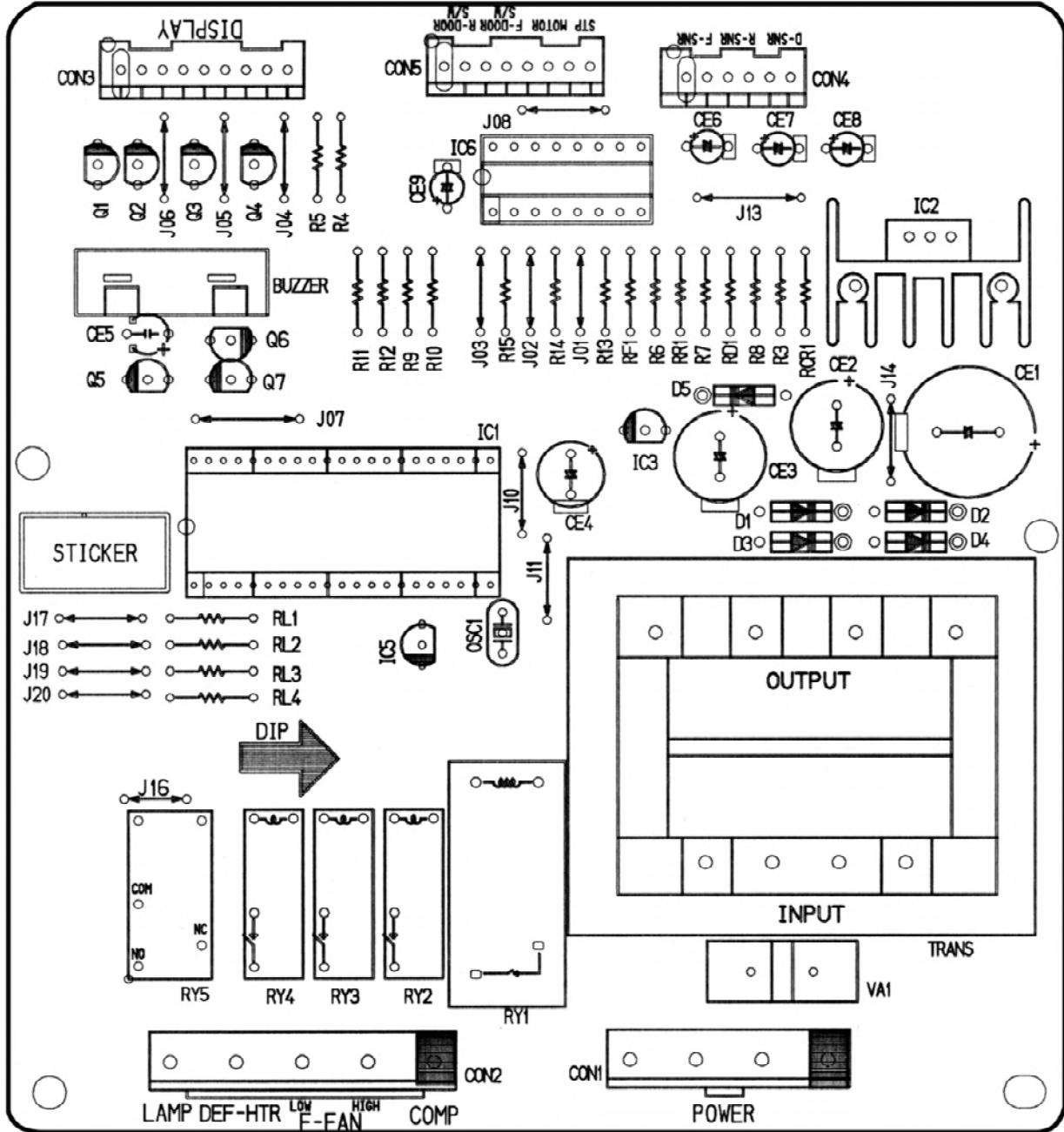
7-4 TROUBLESHOOTING

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

PROBLEM	INDICATED BY	CHECK	CHECKING METHOD	CAUSE	SOLUTION
COOLING is poor.	IF REFRIGERATOR TEMPERATURE is too low.	1. IF FREEZER TEMPERATURE is normal	Check is FREEZER TEMPERATURE is too low.	FAN MOTOR is poor.	Make sure the DOOR is attached.
		2. If amount of cool air from FAN MOTOR is sufficient.	Make sure that the amount and speed of cool air are sufficient by touching the check supplied on the REFRIGERATOR.	Passage of cool air is blocked. EVA frozen.	Replace FAN MOTOR. Remove impurities. See DEFROSTING is poor.
		3. Door Line contact.	Check door seal when door is closed.	Door liner damaged.	Replace Door liner.
DEFROSTING is poor.	NO DEFROSTING.	1. If HEATER emits heat.	USE TEST MODE2 (forced DEFROSTING).	HEATER disconnection.	Replace HEATER.
				TEMPERATURE FUSE disconnection.	Replace TEMPERATURE 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 RY3 of MAIN PWB.
				DRAIN PIPE is blocked.	Remove ice and impurities. Check HEATER PLATE resistance.
		3. If ice remains after DEFROSTING.	Make sure that DEFROST SENSOR is connected. Make sure that FREEZER / REFRIGERATOR DOOR is closed.	Connection is poor.	Reassemble the DEFROST-SENSOR.
				DOOR does not close properly.	Reassemble DOOR. Replace GASKET.

7-5 MAIN PWB ASSEMBLY AND PARTS LIST

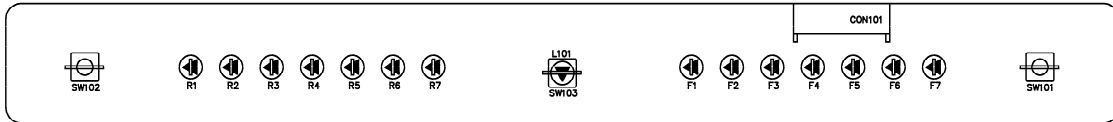
7-5-1 Main PWB Assembly



7-5-2 Replacement Parts List

No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870.JB8089B	PWB(PCB)	KS-PJT GOOD MDL	DDO SAN	T=1.6
2	6170.JB2002H	TRANSFORMER,LOW VOLTAGE	240V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
3	6170.JB2002M	TRANSFORMER,LOW VOLTAGE	260V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
4	6170.JB2002R	TRANSFORMER,LOW VOLTAGE	140V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
5	6170.JB2002W	TRANSFORMER,LOW VOLTAGE	115V 15V YES GR-MICOM ONE TAB	TAE SUNG	TRANS
6	6630AQ9106C	CONNECTOR (CIRC),WAFER	YW396-07AV YEONHO 7PIN 3.96MM STRAIGHT SN	YEON HO	CON1
7	6630AQ9106D	CONNECTOR (CIRC),WAFER	YW396-09AV	YEON HO	CON2
8	6630AQ9106B	CONNECTOR (CIRC),WAFER	YW396-05AV	YEON HO	-
9	6630.JB8007G	CONNECTOR (CIRC),WAFER	917786-1 AMP 8PIN 2.5MM STRAIGHT SN	AMP	CON5
10	6630.JB8007H	CONNECTOR (CIRC),WAFER	917787-1 AMP 9PIN 2.5MM STRAIGHT SN	AMP	CON3
11	6630.JB8007E	CONNECTOR (CIRC),WAFER	917784-1 AMP 6PIN 2.5MM STRAIGHT SN	AMP	CON4
12	01ZZ.JB2023L	IC,DRAWING	IMP87C846N 42 SDIP BK KS-BETTER/GOOD(MASK)	TOSHIBA	IC1(01ZZ.JB2022M)
13	01ZZ.JB2022	IC,DRAWING	-	TOSHIBA	IC1(01ZZ.JB2022)
14	01ZZ.JB2022	IC,DRAWING	-	TOSHIBA	IC1(01ZZ.JB2022)
15	01KE781200B	IC,KEC	KIA7812PT 12V 1A,KEC - - - -	KEC	IC2
16	01KE781200M	IC,KEC	KIA7812PT 3DIP BK 12V 1A REFORM	KEC	-
17	01KE780500A	IC,KEC	KIA7805P,3PIN,DIP, KEC	KEC	IC3
18	01STLM1001A	IC,STANDARD LOGIC	M54563FP MITSUBISHI 20 R/TP CONVERT	mitsubishi	-
19	01TD777400A	IC,TOSHIBA	TA7774AP 16 SDIP BK STEPPING MOTOR	TOSHIBA	IC6
20	01KE650030C	IC,KEC	KID65003AF 16SDIP BK 7CH DRIVER	KEC	IC4
21	01KE704200A	IC,KEC	KIA7042P 3P BK RESET	KEC	IC5
22	01RH934600D	IC,RDHM	BR93LC46RF-W 8PIN SDP BK EEPROM -	RDHM	-
23	6920000001A	RELAY	AL15B12 MATSUSHITA 250VAC 16A 12VDC 1A NO VENTING	NAIS	RY1
24	6920WRD010A	RELAY	US11-12S YUYU 250VAC 3A 12VDC 1A	YUYU	-
25	6920.JB2003B	RELAY	ALD112 MATSUSHITA 250VAC 3A 12VDC 1A	EMRON	RY2~RY4
26	6920.JB2009A	RELAY	65S-1 OMRON 12V 3A 227V 1C	EMRON	RY5
27	6212.JB8001B	RESINATOR,CERAMIC	CST50400 MURATA 4MHZ +/- 0.5% 15PF TP NONE	MURATA	DSC1(CJ570-00012B)
28	6102V5V006A	VARISTOR	INR14D331 ILJIN UL/CSA/VDE BK	ILJIN	VA1
29	6102.JB8003A	VARISTOR	INR14D271 ILJIN UL/VDE TP 270V	ILJIN	VA1
30	6102.JB8001B	VARISTOR	INR14D621 ILJIN UL/VDE BK 620V	ILJIN	VA1
31	0DD400709AA	DIODE,RECTIFIERS	1N4007 TP MOTOROLA - - 1A	DEL TA	D1-D5
32	0CE2286J610	CAPACITOR,AL.ELECTROLYTIC	2200 UF SMS,SG 35V M FL BULK	SAM HWA	CE1
33	0CE1086J610	CAPACITOR,FIXED ELECTROLYTIC	1000UF SMS,SG 35V 20% FL BULK	SAM HWA	-
34	0CE1086H618	CAPACITOR,AL.ELECTROLYTIC	1000 UF SMS,SG 25V M FL TP 5	SAM HWA	CE2
35	0CE4776H618	CAPACITOR,FIXED ELECTROLYTIC	470UF SMS,SG 25V 20% FL TP 5	SAM HWA	CE3
36	0CE2276F638	CAPACITOR,FIXED ELECTROLYTIC	220UF SMS,SG 16V 20% FMS TP 5	SAM HWA	CE4
37	0CE1076H638	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 25V 20% FMS TP 5	SAM HWA	-
38	0CE1066K638	CAPACITOR,FIXED ELECTROLYTIC	10UF SMS,SG 50V 20% FMS TP 5	SAM HWA	CE6~CE8
39	0CE1056K638	CAPACITOR,FIXED ELECTROLYTIC	1UF SMS,SG 50V 20% FMS TP 5	SAM HWA	CE9
40	0CE4761H638	CAPACITOR,FIXED ELECTROLYTIC	47UF SMS,SG 25V 20% FMS TP 5	SAM HWA	CE5
41	0CQ2231N409	CAPACITOR,POLYESTER	0.022 UF D 100V J PE TP	SAM HWA	-
42	0CK102DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	1NF 2012 50V 80%,-20% R/TP X7R	SAM HWA	CC6
43	0CK223DK96A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	22NF 2012 50V 80%,-20% R/TP X7R	SAM HWA	CC7~CC11
44	0CK104DK94A	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	100NF 2012 50V R/TP (GRM40X7R104K50PE)	MURATA	CC1~CC5
45	0CK104DK949	CAPACITOR,FIXED CERAMIC(HIGH DIELECTRIC)	0.1UF D 50V 80%,-20% F(Y5V) TA52	SAM HWA	-
46	0RD3900G609	RESISTOR,FIXED CARBON FILM	390 OHM 1/4 W 5.00% TA52	SMART	RL1~RL4
47	0RD1000G609	RESISTOR,FIXED CARBON FILM	100 OHM 1/4 W 5.00% TA52	SMART	R5
48	0R.J1001E672	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1/8 W 5% 2012 R/TP	RDHM	R16
49	0R.J2001E672	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1/8 W 5% 2012 R/TP	RDHM	-
50	0RD2001G609	RESISTOR,FIXED CARBON FILM	2K OHM 1/4 W 5.00% TA52	SMART	R6~R12
51	0RH2200L622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1/8 W 2012 5.00% D	RDHM	R17
52	0R.J2201E672	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1/8 W 5% 2012 R/TP	RDHM	-
53	0R.J4701E672	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1/8 W 5% 2012 R/TP	RDHM	R1
54	0R.J4701E672	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1/8 W 5% 2012 R/TP	RDHM	-
55	0RD4701G609	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/4 W 5.00% TA52	SMART	-
56	0R.J1002E672	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1/8 W 5% 2012 R/TP	RDHM	-
57	0R.J1002E672	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1/8 W 5% 2012 R/TP	RDHM	-
58	0RD1002G609	RESISTOR,FIXED CARBON FILM	10K OHM 1/4 W 5.00% TA52	SMART	R3,R4,RCR1,R13~R15
59	0R.J2702E672	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1/8 W 5% 2012 R/TP	RDHM	-
60	0R.J1004E672	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1/8 W 5% 2012 R/TP	RDHM	R2
61	0R.J2612E472	RESISTOR,FIXED METAL FILM	26.1K OHM 1/4 W 1.00% TA52	SMART	RR1,RD1
62	0R.J1622E472	RESISTOR,FIXED METAL FILM	16.2K OHM 1/4 W 1.00% TA52	SMART	RF1
63	3.J03565D	FUSE,DRAWING	9A 250V - -	SAM JU	-
64	0TR106009AC	TRANSISTOR	KRA106M(KRA2206) TP KEC	KEC	Q1-Q4 Q6
65	0TR106009AF	TRANSISTOR	KRC 106M KEC	KEC	Q5,Q7
66	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	KEC	-
67	6908.JB3002D	BUZZER	PQ272207PL-20C-2000 SUNWAY PIEZO 2KHZ 80DB (CHINA)	SUNWAY	BUZZER
68	6600RRT001Z	SWITCH,TACT	JTP1280A6 JEIL 12V DC 50MA	JEIL	-
69	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(8MM)	-	J16
70	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	-	J1~J6,J8,J10,J14,J17~J20
71	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(12.5MM)	-	J13
72	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(12.5MM)	-	J07
73	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN	-	-
74	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN	-	-
75	4920.JB3003A	HEAT SINK	30*25*30 IC-12V R-B50.51,52,53,54,55,56 2PIN 1-SCREW 3	-	(IC2)
76	1SBF0302418	SCREW TAP TITE(S),BINDING HEAD	+ D3.0 L8.0 MSWR3/FZY	-	(IC2)
79	9VWF0120000	SOLDER(RJOSIN WIRE) R50	D1.20	HEE SUNG	-
78	49111004	SOLDER,SOLDERING	H63A	-	-
80	59333105	FLUX	SG0.825-0.830 KOREA F.H-206	KOKI	-

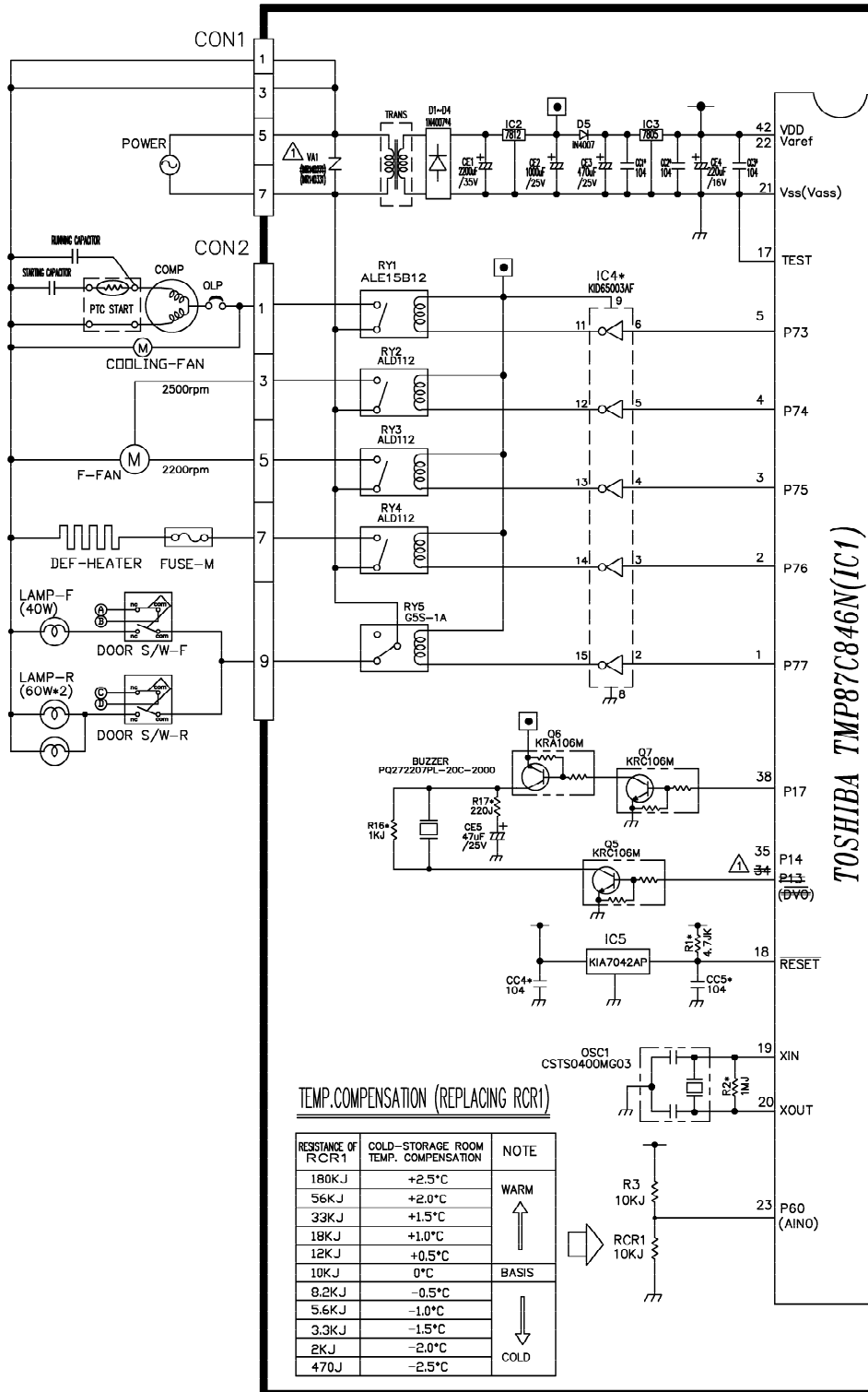
7-5-3 PWB Assembly, Display, And Parts List



Qty	No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	1	6870JB8091A	PWB(PCB)	KS-PJT GOOD/BETTER DISPLAY	DDO SAN	t=1.6
	2					
1	3	6630AQ9159H	WAFER	SMAW250-09	YEON HO	CON101
	4					
2	5	6600RRT002K 6600JB8005A	SWITCH,TACT	JTP1230A JEIL 12V DC 50MA KPT-1105A	JEIL KYUNG IN	SW101,102
1	6	-	TACT S/W	KPT-1109G	KYUNG IN	SW103
14	7	0DLLE0019AA	LED	LT1824-81-BCM TP GREEN 2		R1~R7,F1~F7
3	8	0DD414809AA	DIODE,SWITCHING	1N4148 26MM	PYUNG CHANG DELTA	D101,102,103
12	10	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN (10MM)	-	J101~J112
	11					
-	12	9VWF0120000	SOLDER(RUSIN WIRE) RSO	D1.20	HEE SUNG	-
0.01	13	49111004	SOLDER,SOLDERING	H63A	-	-
0.0005	14	59333105	FLUX	SGJ0.825-0.830 KOREA F.H-206	KDKT	-

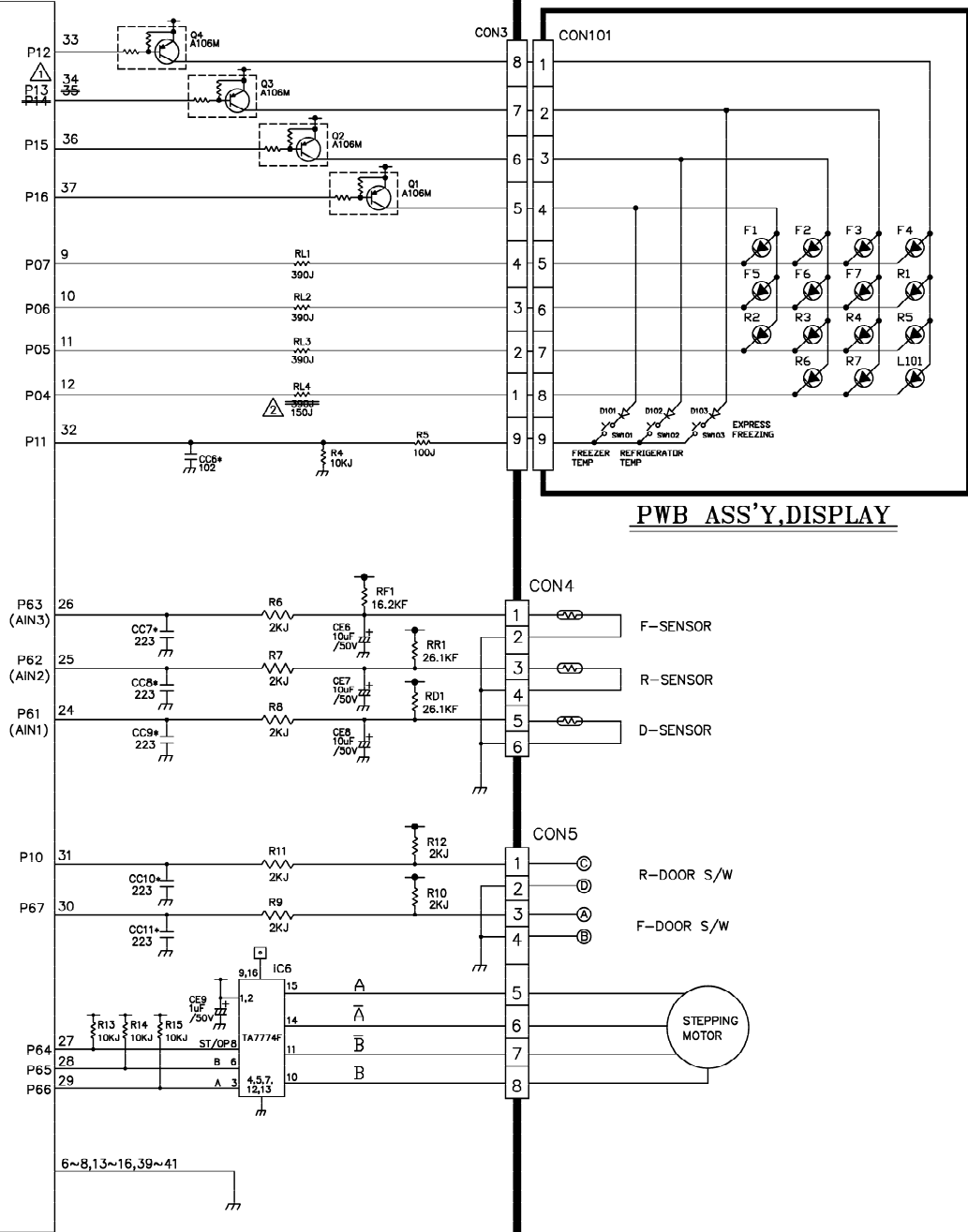
7-6 PWB DIAGRAM

7-6-1 PWB Main Assembly



TOSHIBA TMP87C846N (IC1)

FIG.1 CIRCUIT DIAGRAM

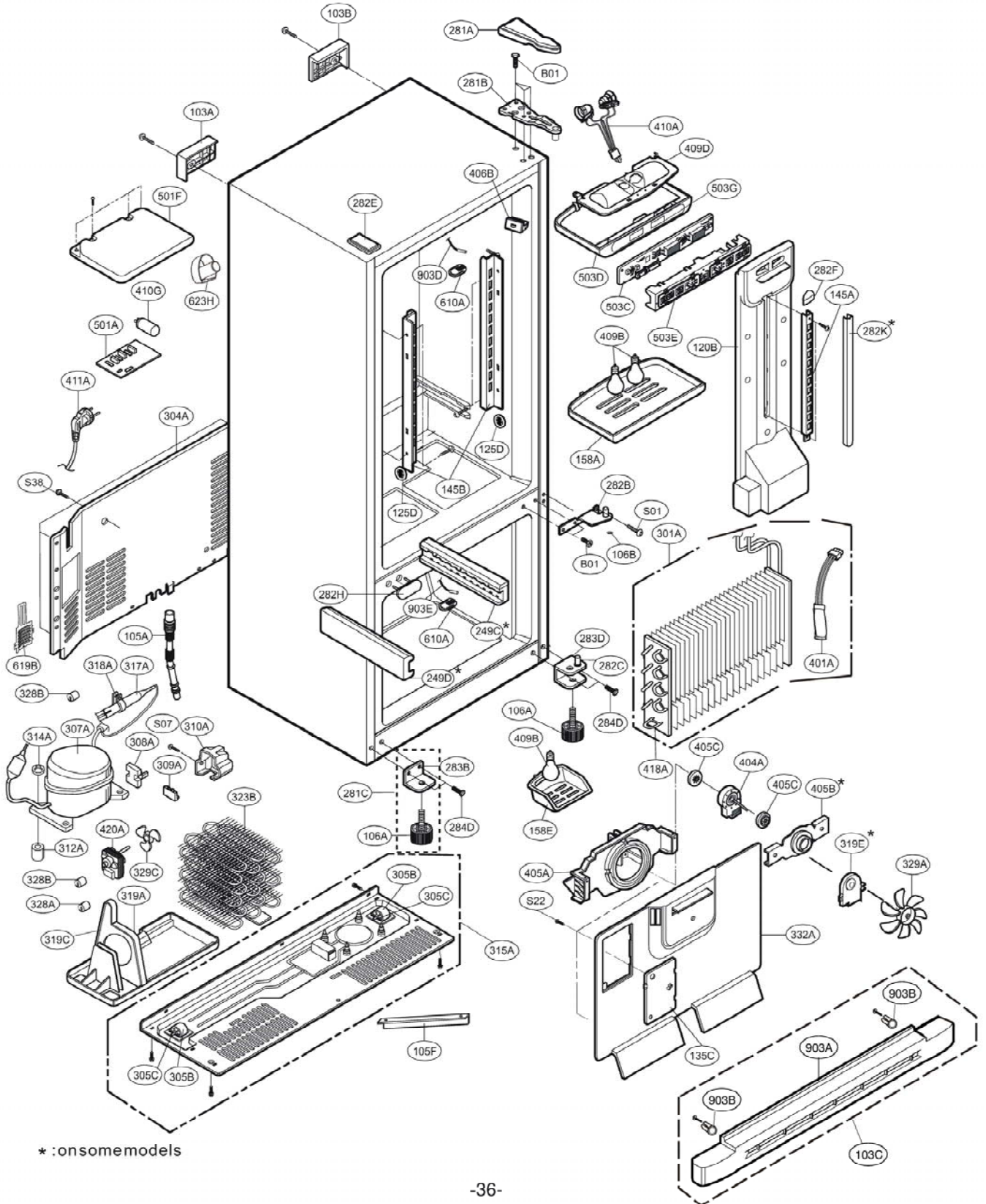


PWB ASS'Y, DISPLAY

EXPLODED VIEW

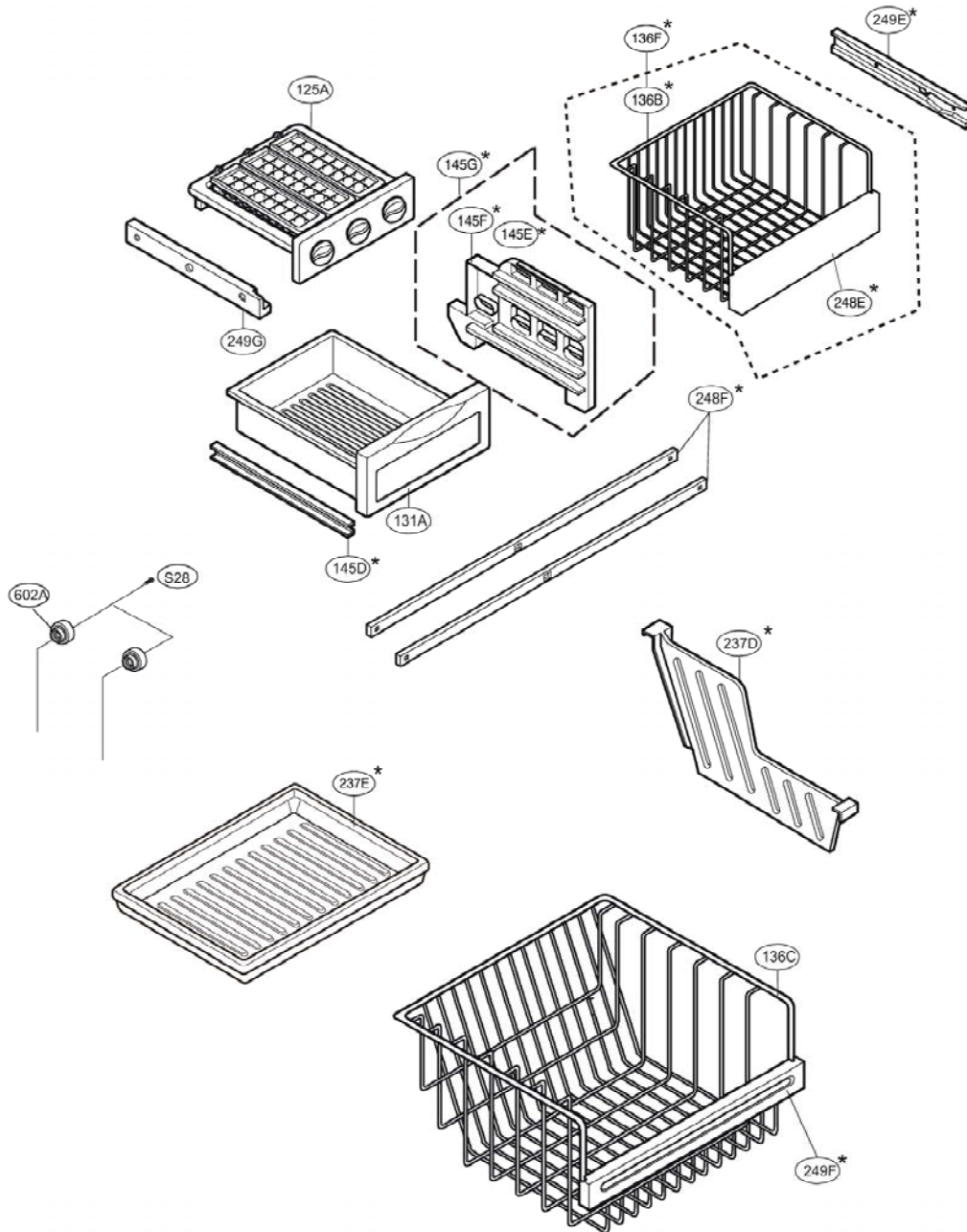
CASEPARTS

CAUTION: Use the part number to order part, not the position number.



FREEZER PARTS

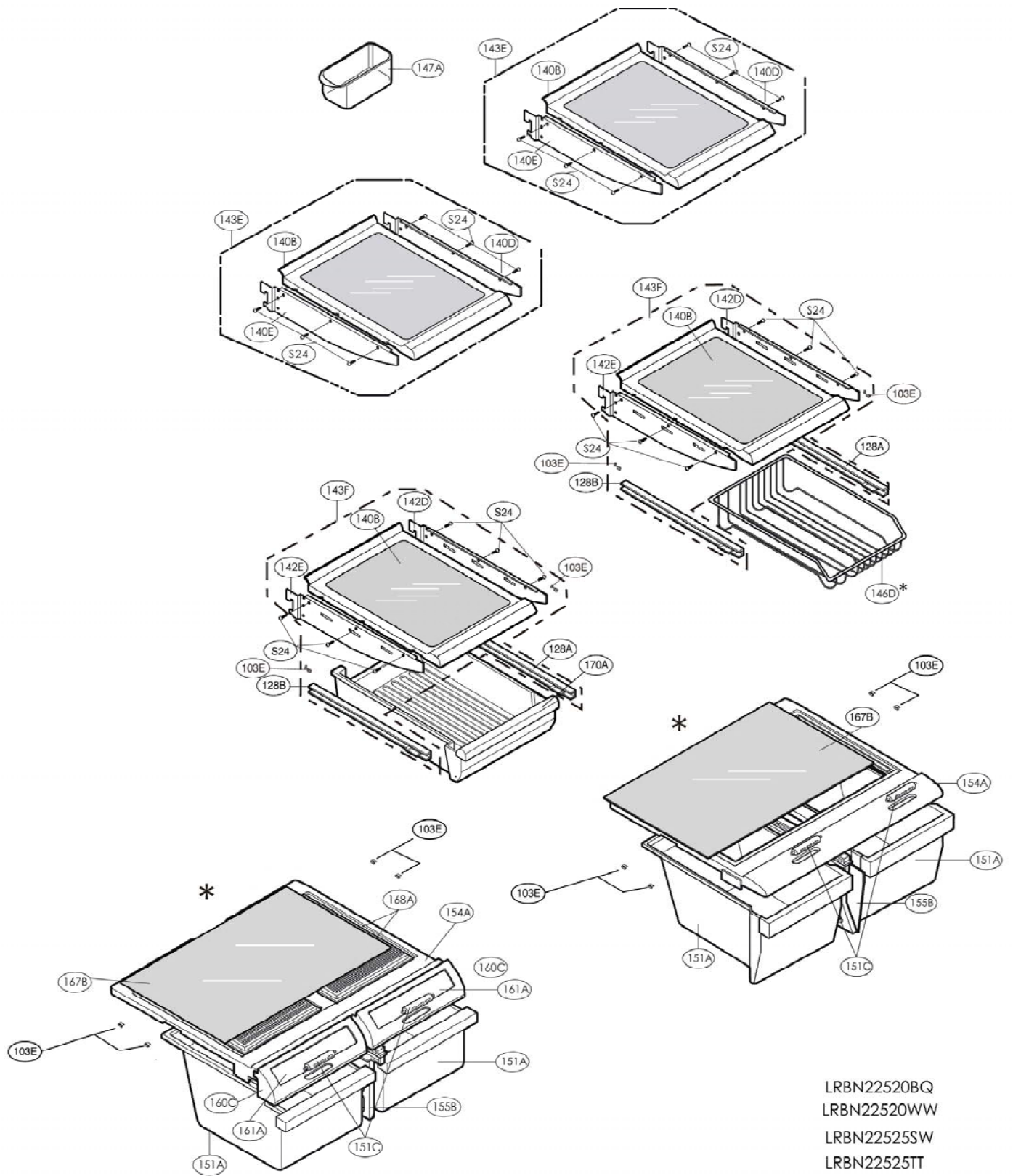
CAUTION: Use the part number to order part, not the position number.



* : on some models

REFRIGERATOR PARTS

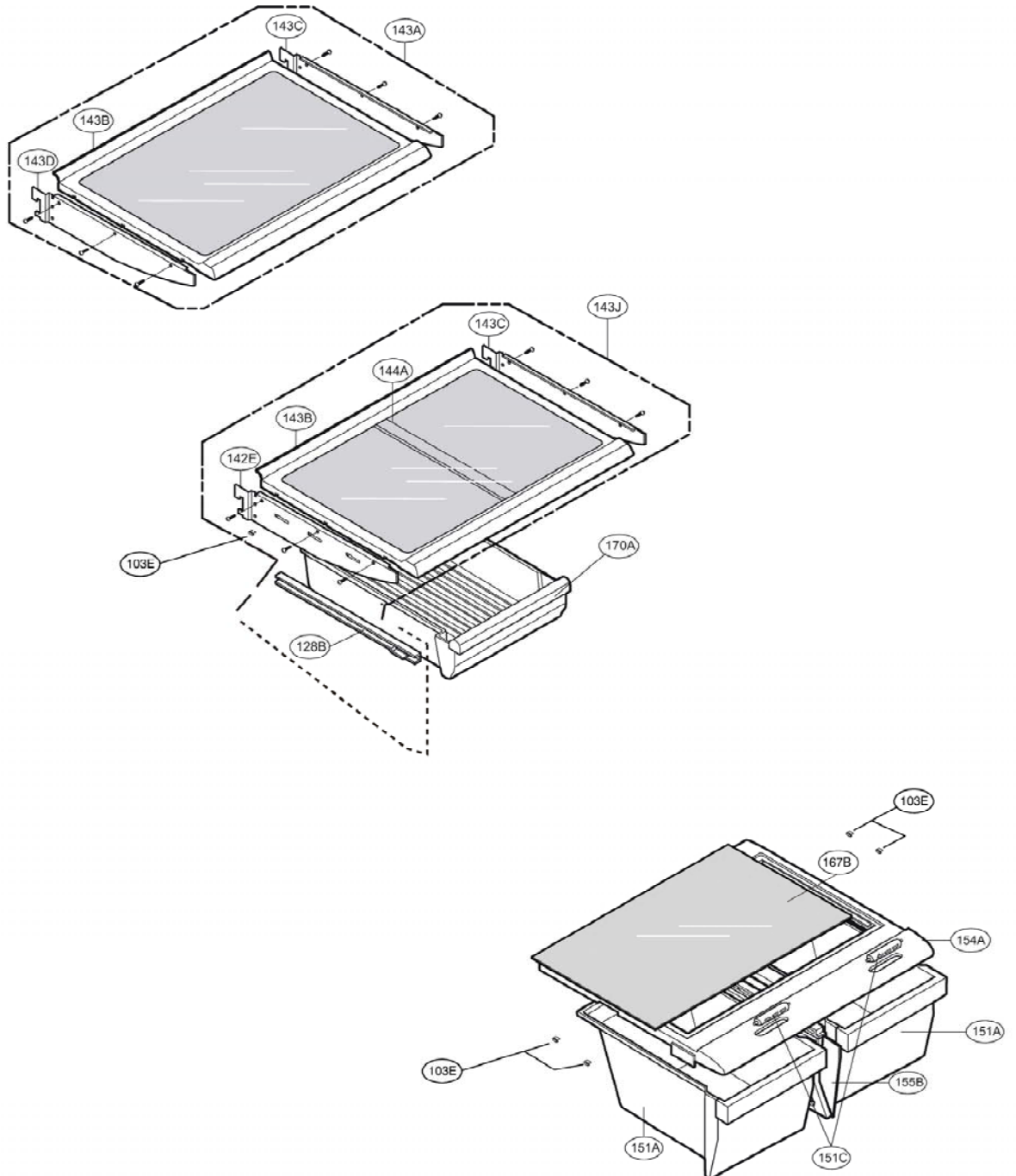
CAUTION: Use the part number to order part, not the position number



LRBN22520BQ
LRBN22520WW
LRBN22525SW
LRBN22525TT

REFRIGERATOR PARTS

CAUTION: Use the part number to order part, not the position number.

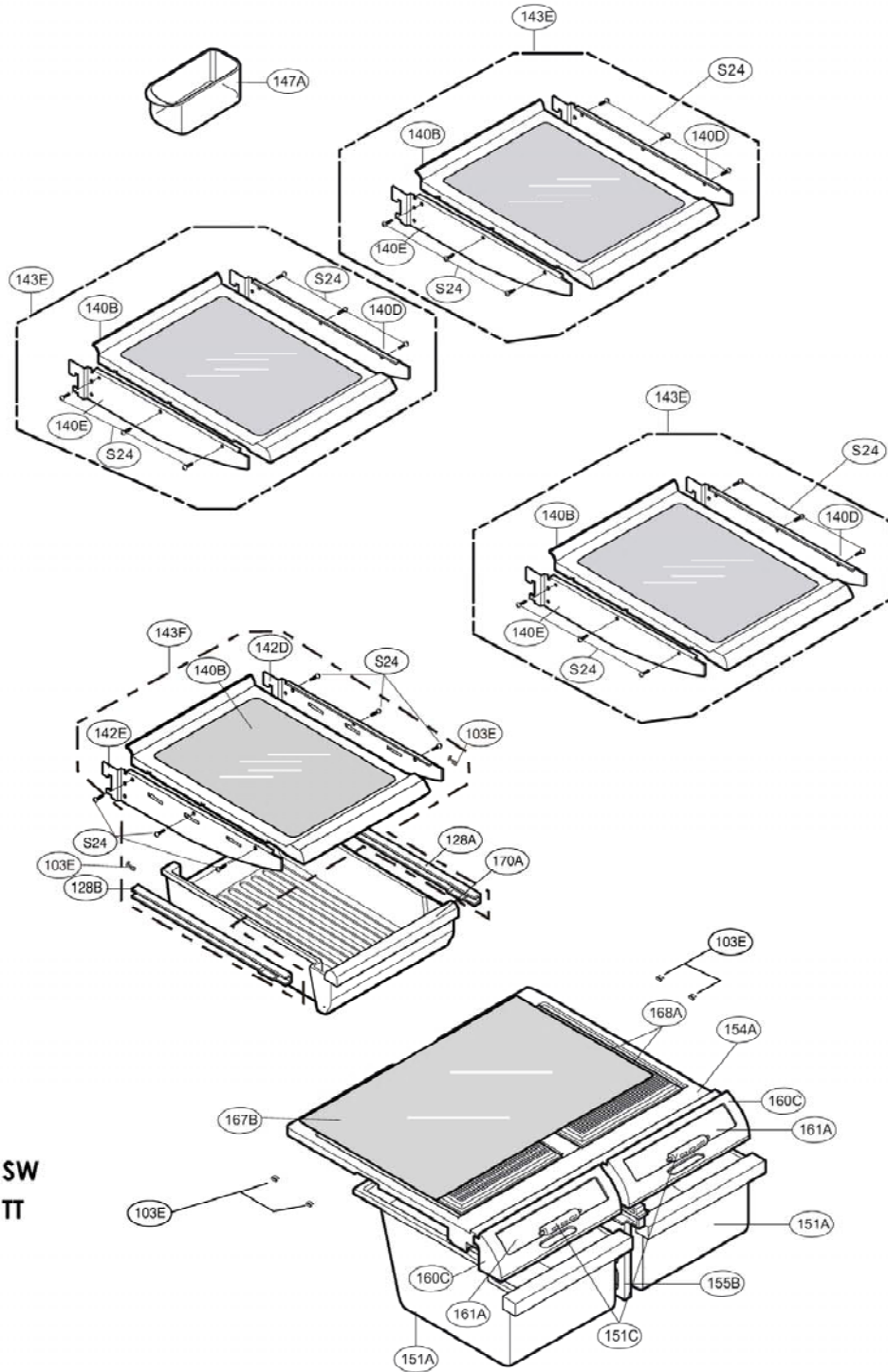


LRBN22510WW
LRBN22510BQ

* :onsomemodels

REFRIGERATOR PARTS

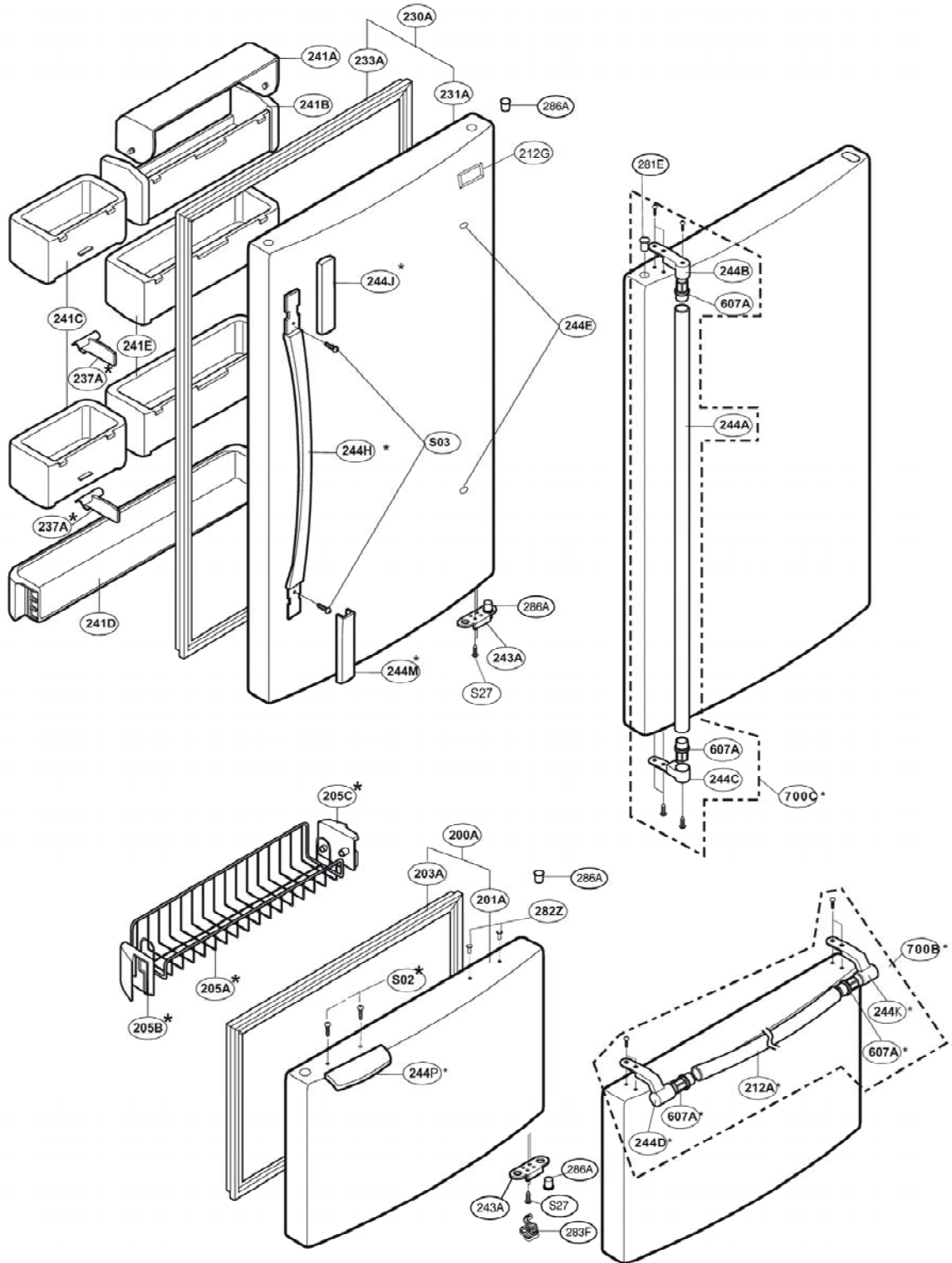
CAUTION: Use the part number to order part, not the position number.



LRBN22511SW
LRBN22511TT

DOOR PARTS

CAUTION: Use the part number to order part, not the position number.



* : on some models

LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003E	282C	PIN,DRAWING	1PZZJJ3002F
103B	HANDLE,BACK	3650JJ2003A	282E	CAP,HINGE	5006JJ2001A
103C	COVER ASSEMBLY,LOWER	3551JJ1015B	282F	DECO,DUCT	3806JL2006E
103E	RAIL,SLIDE	5218JJ3001A	282H	CAP,HINGE	5006JJ3004A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	282K	CAP,DUCT	5006JJ2006A
105F	SKIRT,LOWER	5070JJ3002A	282Z	CAP,HANDLE	5006JJ3010A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	283B	HINGE,L	4774JJ3001A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	283D	HINGE,L	4774JJ2002A
106B	WASHER,DRAWING	4J00382C	283F	STOPPER,DOOR	4620JJ2007A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	284D	SCREW,DRAWING	1STZJA3004K
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	286A	BUSH	4984JJ3003A
125D	HOLDER,BRACKET	4930JJ3007A	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
131A	BANK ASSEMBLY,ICE	5075JJ1001A	305B	ROLLER	4580JJ3001A
135C	COVER,GRILLE FAN	3550JJ2030A	305C	PIN,DRAWING	4J04238A
136B	TRAY,DRAWER	3390JJ1034A	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
136C	TRAY,DRAWER	3390JJ1027A	308A	P.T.C ASSEMBLY	6748C-0004D
142E	SHELF,NET	5026JJ2001M	309A	O.L.P	6750CR0004S
143A	SHELF ASSEMBLY,R	5027JJ1028B	310A	COVER,P.T.C	3550JA2042A
143B	SHELF ASSEMBLY,R	5027JJ1015B	312A	RUBBER,SEAT	5040JA3031A
143B	SHELF ASSEMBLY,R	5027JJ1015B	314A	STOPPER,COMP	4620JA3009A
143C	SHELF,NET	5026JJ2001G	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
143C	SHELF,NET	5026JJ2001G	317A	DRIER ASSEMBLY	5851JJ2002B
143D	SHELF,NET	5026JJ2001H	318A	HOLDER,DRIER	4930JJ3002A
143J	SHELF ASSEMBLY,R	5027JJ1028D	319A	TRAY,DRIP	3390JJ0003A
144A	GUIDE ASSEMBLY,RAIL	4975JJ2004A	319C	GUIDE,FAN	4974JJ1009A
145B	HOLDER,SHELF	4930JJ2004A	323B	CONDENSER ASSEMBLY,WIRE	6715JJ1007A
145D	GUIDE,RAIL	4974JJ1012A	327A	CAP,DRAIN PIPE	5006JA3034A
145E	GUIDE,RAIL	4974JJ1014A	328A	RUBBER,DAMPING	4J03020A
145F	GUIDE,RAIL	4974JJ1013A	328B	RUBBER,DAMPING	4J04328A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	329A	FAN ASSEMBLY	5901JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020C	329C	FAN ASSEMBLY	5901JJ1004B
151C	KNOB,SHUTTER	4940JJ2003B	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
154A	COVER,T/V	5430JJ1006C	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B	404A	MOTOR(MECH),FAN	4680JK1002B
158A	COVER,LAMP	3550JJ1040A	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
158E	COVER,LAMP	3550JJ1051A	405B	BRACKET,MOTOR	4810JA3007A
167B	GLASS,SHELF	4890JL1002H	405C	RUBBER,MOTOR-N	J756-00008B
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	406B	SWITCH,[PUSH]	6600JB1004A
200A	DOOR ASSEMBLY,F	3581JJ8020A	409B	LAMP,[INCANDESCENT]	6912JK2002C
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018E	409D	REFLECTOR,LAMP	3034JJ1002B
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
205D	BASKET,DOOR	5004JJ1040A	410G	CAPACITOR,DRAWING	0CZZJB2003H
212G	NAME PLATE,P(H)	4140JD2001C	411A	POWER CORD ASSEMBLY	6411JK1006A
230A	DOOR ASSEMBLY,R	3581JJ8024N	418A	HEATER,SHEATH	5300JB1100J
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019C	420A	MOTOR(MECH),COOLING	4680JK1001B
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
241A	COVER,TRAY	3550JL2003H	501F	COVER,PWB	3550JJ1042B
241B	BASKET,DOOR	5004JJ1021A	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
241C	BASKET,DOOR	5004JJ1031A	503D	CASE,DISPLAY	3110JJ1005A
241D	BASKET,DOOR	5004JJ0001A	503E	COVER,DISPLAY	3550JJ2031A
241E	BASKET,DOOR	5004JJ1029A	503G	DECO,CONTROL	3806JL1009A
243A	STOPPER,DOOR	4620JJ3006A	602A	HOLDER,BRACKET	4930JA3037A
243A	STOPPER,DOOR	4620JJ3006A	610A	COVER,SENSOR	3550JJ2020A
244E	CAP,HANDLE	5006JJ3016A	619B	COVER,VALVE	3550JJ2024A
244H	HANDLE,R	3650JJ0006A	623H	COVER,TUBE	3550JJ2036A
244J	DECO,HANDLE	3806JJ1020A	903A	COVER,LOWER	3550JJ0006A
244M	DECO,HANDLE	3806JJ1020B	903B	HOLDER,COVER LOWER	4930JJ2021A
244P	HANDLE,F	3650JJ2012A	903D	SENSOR	6500JK1003A
248F	SUPPORTER,HOLDER	4980JJ2005A	903E	SENSOR	6500JK1004A
249C	HOLDER,RAIL	4930JJ1006A	B01	SCREW,DRAWING	1STZJA3004F
249D	HOLDER,RAIL	4930JJ1006B	S01	SCREW,DRAWING	1SZZJJ3010A
249E	GUIDE,RAIL	4974JJ1010A	S02	SCREW,DRAWING	1SZZJJ3010B
249G	GUIDE,RAIL	4974JJ1011A	S03	BOLT,DRAWING	1BHZJA3003D
281A	COVER,HINGE	3550JJ2013A	S07	SCREW,DRAWING	4000W4A003A
281B	HINGE ASSEMBLY,U	4775JJ2003B	S22	SCREW,DRAWING	3J05696C
281C	HINGE ASSEMBLY,L	4775JJ2008A	S24	SCREW,DRAWING	1SZZJA3011B
281E	CAP,HINGE	5006JJ3008A	S27	SCREW,DRAWING	4J01424C
282B	HINGE ASSEMBLY,C	4775JJ8002F	S28	SCREW,DRAWING	3J05696W
			S38	SCREW,DRAWING	4J00415D

LRBN22511SW

LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003E	281B	HINGE ASSEMBLY,U	4775JJ2003B
103B	HANDLE,BACK	3650JJ2003A	281C	HINGE ASSEMBLY,L	4775JJ2008A
103C	COVER ASSEMBLY,LOWER	3551JJ1015B	281E	CAP,HINGE	5006JJ3008A
103E	RAIL,SLIDE	5218JJ3001A	282B	HINGE ASSEMBLY,C	4775JJ8002F
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	282C	PIN,DRAWING	1PZZJJ3002F
105F	SKIRT,LOWER	5070JJ3002A	282E	CAP,HINGE	5006JJ2001A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	282F	DECO,DUCT	3806JL2006E
106B	WASHER,DRAWING	4J00382C	282H	CAP,HINGE	5006JJ3004A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	283B	HINGE,L	4774JJ3001A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	283D	HINGE,L	4774JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A	283F	STOPPER,DOOR	4620JJ2007A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	284D	SCREW,DRAWING	1STZJA3004K
131A	BANK ASSEMBLY,ICE	5075JJ1001B	286A	BUSH	4984JJ3003A
135C	COVER,GRILLE FAN	3550JJ2030A	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
136B	TRAY,DRAWER	3390JJ1034A	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
136C	TRAY,DRAWER	3390JJ1027A	305B	ROLLER	4580JJ3001A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1013C	305B	ROLLER	4580JJ3001A
140B	SHELF ASSEMBLY,R	5027JJ2007B	305C	PIN,DRAWING	4J04238A
140D	SHELF,NET	5026JJ2001G	305C	PIN,DRAWING	4J04238A
140E	SHELF,NET	5026JJ2001H	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
142D	SHELF,NET	5026JJ2001L	308A	P.T.C ASSEMBLY	6748C-0004D
142E	SHELF,NET	5026JJ2001M	309A	O.L.P	6750CR0004S
143E	SHELF ASSEMBLY,R	5027JJ1008B	310A	COVER,P.T.C	3550JA2042A
143F	SHELF ASSEMBLY,R	5027JJ1008D	312A	RUBBER,SEAT	5040JA3031A
145A	HOLDER,SHELF	4930JJ2003A	314A	STOPPER,COMP	4620JA3009A
145B	HOLDER,SHELF	4930JJ2004A	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
145D	GUIDE,RAIL	4974JJ1012A	317A	DRIER ASSEMBLY	5851JJ2002B
145E	GUIDE,RAIL	4974JJ1014A	318A	HOLDER,DRIER	4930JJ3002A
145F	GUIDE,RAIL	4974JJ1013A	319A	TRAY,DRIP	3390JJ0003A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	319C	GUIDE,FAN	4974JJ1009A
147A	BANK,DAIRY	5074JJ1005A	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E	327A	CAP,DRAIN PIPE	5006JA3034A
151C	KNOB,SHUTTER	4940JJ2003B	328A	RUBBER,DAMPING	4J03020A
154A	COVER,T/V	3550JJ1033A	328B	RUBBER,DAMPING	4J04328A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A	329A	FAN ASSEMBLY	5901JJ1005A
158A	COVER,LAMP	3550JJ1040A	329C	FAN ASSEMBLY	5901JJ1004B
158E	COVER,LAMP	3550JJ1051A	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
160B	DECO,TRAY	3806JL2005D	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
161A	COVER,TRAY	3550JJ2026A	404A	MOTOR(MECH),FAN	4680JK1002B
167B	GLASS,SHELF	4890JL1002K	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
168A	COVER,MAGIC ROOM	3550JJ1035A	405B	BRACKET,MOTOR	4810JA3007A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	405C	RUBBER,MOTOR-N	J756-00008B
200A	DOOR ASSEMBLY,F	3581JJ8020P	406B	SWITCH,[PUSH]	6600JB1004A
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018B	409B	LAMP,[INCANDESCENT]	6912JK2002C
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A	409D	REFLECTOR,LAMP	3034JJ1002B
205A	BASKET,DOOR	5004JJ1042B	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
205B	BASKET,TILT	5004JJ2005B	410G	CAPACITOR,DRAWING	0CZZJB2003H
205C	BASKET,TILT	5004JJ2005A	411A	POWER CORD ASSEMBLY	6411JK1006A
212A	HANDLE,F	3650JJ1017K	418A	HEATER,SHEATH	5300JB1100J
212G	NAME PLATE,P(H)	4140JD2001C	420A	MOTOR(MECH),COOLING	4680JK1001B
230A	DOOR ASSEMBLY,R	3581JJ8024B	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019B	501F	COVER,PWB	3550JJ1042B
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
237A	GUIDE,BOTTLE	4974JJ2021A	503D	CASE,DISPLAY	3110JJ1005A
237D	GUIDE,DRAWER	4974JJ1019A	503E	COVER,DISPLAY	3550JJ2031A
237E	TRAY,DRAWER	3390JJ1036A	503G	DECO,CONTROL	3806JL1009A
241A	COVER,TRAY	3550JL2003H	602A	HOLDER,BRACKET	4930JA3037A
241B	BASKET,DOOR	5004JJ1021A	607A	HOLDER,BRACKET	4930JJ2013A
241C	BASKET,DOOR	5004JJ1031A	607A	HOLDER,BRACKET	4930JJ2013A
241D	BASKET,DOOR	5004JJ0001A	610A	COVER,SENSOR	3550JJ2020A
241E	BASKET,DOOR	5004JJ1029A	619B	COVER,VALVE	3550JJ2024A
243A	STOPPER,DOOR	4620JJ3006A	623H	COVER,TUBE	3550JJ2036A
243A	STOPPER,DOOR	4620JJ3006A	700B	HANDLE ASSEMBLY,F	3651JJ0002D
244A	HANDLE,R	3650JJ2008R	700C	HANDLE ASSEMBLY,R	3651JJ1017H
244B	HOLDER,HANDLE	4930JJ2009E	903A	COVER,LOWER	3550JJ0006A
244C	HOLDER,HANDLE	4930JJ2010E	903B	HOLDER,COVER LOWER	4930JJ2021A
244D	HOLDER,HANDLE	4930JJ2012E	903D	SENSOR	6500JK1003A
244K	HOLDER,HANDLE	4930JJ2011E	903E	SENSOR	6500JK1004A
248E	DECO,TRAY	3806JJ1018A	B01	SCREW,DRAWING	1STZJA3004F
248F	SUPPORTER,HOLDER	4980JJ2005A	S01	SCREW,DRAWING	1SZZJJ3010A
249C	HOLDER,RAIL	4930JJ1006A	S07	SCREW,DRAWING	4000W4A003A
249D	HOLDER,RAIL	4930JJ1006B	S22	SCREW,DRAWING	3J05696C
249E	GUIDE,RAIL	4974JJ1010A	S24	SCREW,DRAWING	1SZZJA3011B
249F	DECO,TRAY	3806JJ2017A	S27	SCREW,DRAWING	4J01424C
249G	GUIDE,RAIL	4974JJ1011A	S28	SCREW,DRAWING	3J05696W
281A	COVER,HINGE	3550JJ2013A	S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003F	282H	CAP,HINGE	5006JJ3004A
103B	HANDLE,BACK	3650JJ2003B	282K	CAP,DUCT	5006JJ2006A
103C	COVER ASSEMBLY,LOWER	3551JJ1015D	282Z	CAP,HANDLE	5006JJ3010B
103E	RAIL,SLIDE	5218JJ3001A	283B	HINGE,L	4774JJ3001A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	283D	HINGE,L	4774JJ2002A
105F	SKIRT,LOWER	5070JJ3002A	283F	STOPPER,DOOR	4620JJ2007A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	284D	SCREW,DRAWING	1STZJA3004K
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	286A	BUSH	4984JJ3003A
106B	WASHER,DRAWING	4J00382C	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	305B	ROLLER	4580JJ3001A
125D	HOLDER,BRACKET	4930JJ3007A	305C	PIN,DRAWING	4J04238A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
131A	BANK ASSEMBLY,ICE	5075JJ1001A	308A	P.T.C ASSEMBLY	6748C-0004D
135C	COVER,GRILLE FAN	3550JJ2030A	309A	O.L.P	6750CR0004S
136B	TRAY,DRAWER	3390JJ1034A	310A	COVER,P.T.C	3550JA2042A
136C	TRAY,DRAWER	3390JJ1027A	312A	RUBBER,SEAT	5040JA3031A
142E	SHELF,NET	5026JJ2001M	314A	STOPPER,COMP	4620JA3009A
143A	SHELF ASSEMBLY,R	5027JJ1028B	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
143B	SHELF ASSEMBLY,R	5027JJ1015B	317A	DRIER ASSEMBLY	5851JJ2002B
143C	SHELF,NET	5026JJ2001G	318A	HOLDER,DRIER	4930JJ3002A
143D	SHELF,NET	5026JJ2001H	319A	TRAY,DRIP	3390JJ0003A
143J	SHELF ASSEMBLY,R	5027JJ1028D	319C	GUIDE,FAN	4974JJ1009A
144A	GUIDE ASSEMBLY,RAIL	4975JJ2004A	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
145B	HOLDER,SHELF	4930JJ2004A	327A	CAP,DRAIN PIPE	5006JA3034A
145D	GUIDE,RAIL	4974JJ1012A	328A	RUBBER,DAMPING	4J03020A
145E	GUIDE,RAIL	4974JJ1014A	328B	RUBBER,DAMPING	4J04328A
145F	GUIDE,RAIL	4974JJ1013A	329A	FAN ASSEMBLY	5901JJ1005A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	329C	FAN ASSEMBLY	5901JJ1004B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020C	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
151C	KNOB,SHUTTER	4940JJ2003B	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
154A	COVER,T/V	3550JL1006C	404A	MOTOR(MECH),FAN	4680JK1002B
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
158A	COVER,LAMP	3550JJ1040A	405B	BRACKET,MOTOR	4810JA3007A
158E	COVER,LAMP	3550JJ1051A	405C	RUBBER,MOTOR-N	J756-00008B
167B	GLASS,SHELF	4890JL1002H	406B	SWITCH,[PUSH]	6600JB1004A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	409B	LAMP,[INCANDESCENT]	6912JK2002C
200A	DOOR ASSEMBLY,F	3581JJ8020E	409D	REFLECTOR,LAMP	3034JJ1002B
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018K	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A	410G	CAPACITOR,DRAWING	0CZZJB2003H
205D	BASKET,DOOR	5004JJ1040A	411A	POWER CORD ASSEMBLY	6411JK1006A
212G	NAME PLATE,P(H)	4140JD2001C	418A	HEATER,SHEATH	5300JB1100J
230A	DOOR ASSEMBLY,R	3581JJ8024S	420A	MOTOR(MECH),COOLING	4680JK1001B
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019F	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B	501F	COVER,PWB	3550JJ1042B
241A	COVER,TRAY	3550JL2003H	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
241B	BASKET,DOOR	5004JJ1021A	503D	CASE,DISPLAY	3110JJ1005A
241C	BASKET,DOOR	5004JJ1031A	503E	COVER,DISPLAY	3550JJ2031A
241D	BASKET,DOOR	5004JJ0001A	503G	DECO,CONTROL	3806JL1009A
241E	BASKET,DOOR	5004JJ1029A	602A	HOLDER,BRACKET	4930JA3037A
243A	STOPPER,DOOR	4620JJ3006B	610A	COVER,SENSOR	3550JJ2020A
244E	CAP,HANDLE	5006JJ3016B	619B	COVER,VALVE	3550JJ2024A
244H	HANDLE,R	3650JJ0006B	623H	COVER,TUBE	3550JJ2036A
244J	DECO,HANDLE	3806JJ1020C	903A	COVER,LOWER	3550JJ0006B
244M	DECO,HANDLE	3806JJ1020D	903B	HOLDER,COVER LOWER	4930JJ2021A
244P	HANDLE,F	3650JJ2012C	903D	SENSOR	6500JK1003A
248F	SUPPORTER,HOLDER	4980JJ2005A	903E	SENSOR	6500JK1004A
249C	HOLDER,RAIL	4930JJ1006A	B01	SCREW,DRAWING	1STZJA3004F
249D	HOLDER,RAIL	4930JJ1006B	S01	SCREW,DRAWING	1SZZJJ3010A
249E	GUIDE,RAIL	4974JJ1010A	S02	SCREW,DRAWING	1SZZJJ3010E
249G	GUIDE,RAIL	4974JJ1011A	S03	BOLT,DRAWING	1BHZA3003D
281A	COVER,HINGE	3550JJ2013B	S07	SCREW,DRAWING	4000W4A003A
281B	HINGE ASSEMBLY,U	4775JJ2003B	S22	SCREW,DRAWING	3J05696C
281C	HINGE ASSEMBLY,L	4775JJ2008A	S24	SCREW,DRAWING	1SZZJA3011B
281E	CAP,HINGE	5006JJ3008B	S27	SCREW,DRAWING	4J01424C
282B	HINGE ASSEMBLY,C	4775JJ8002D	S27	SCREW,DRAWING	4J01424C
282C	PIN,DRAWING	1PZZJJ3002F	S28	SCREW,DRAWING	3J05696W
282E	CAP,HINGE	5006JJ2001E	S38	SCREW,DRAWING	4J00415D
282F	DECO,DUCT	3806JL2006E			

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LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003E	281C	HINGE ASSEMBLY,L	4775JJ2008A
103B	HANDLE,BACK	3650JJ2003A	281E	CAP,HINGE	5006JJ3008A
103C	COVER ASSEMBLY,LOWER	3551JJ1015B	282B	HINGE ASSEMBLY,C	4775JJ8002F
103E	RAIL,SLIDE	5218JJ3001A	282C	PIN,DRAWING	1PZZJJ3002F
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	282E	CAP,HINGE	5006JJ2001A
105F	SKIRT,LOWER	5070JJ3002A	282F	DECO,DUCT	3806JL2006E
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	282H	CAP,HINGE	5006JJ3004A
106B	WASHER,DRAWING	4J00382C	283B	HINGE,L	4774JJ3001A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	283D	HINGE,L	4774JJ2002A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	283F	STOPPER,DOOR	4620JJ2007A
125D	HOLDER,BRACKET	4930JJ3007A	284D	SCREW,DRAWING	1STZJA3004K
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A	286A	BUSH	4984JJ3003A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
131A	BANK ASSEMBLY,ICE	5075JJ1001B	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
135C	COVER,GRILLE FAN	3550JJ2030A	305B	ROLLER	4580JJ3001A
136B	TRAY,DRAWER	3390JJ1034A	305B	ROLLER	4580JJ3001A
136C	TRAY,DRAWER	3390JJ1027A	305C	PIN,DRAWING	4J04238A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1013C	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
140B	SHELF ASSEMBLY,R	5027JJ2007B	308A	P.T.C ASSEMBLY	6748C-0004D
140B	SHELF ASSEMBLY,R	5027JJ2007B	309A	O.L.P	6750CR0004S
140D	SHELF,NET	5026JJ2001G	310A	COVER,P.T.C	3550JA2042A
140E	SHELF,NET	5026JJ2001H	312A	RUBBER,SEAT	5040JA3031A
142D	SHELF,NET	5026JJ2001L	314A	STOPPER,COMP	4620JA3009A
142E	SHELF,NET	5026JJ2001M	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
143E	SHELF ASSEMBLY,R	5027JJ1008B	317A	DRIER ASSEMBLY	5851JJ2002B
143F	SHELF ASSEMBLY,R	5027JJ1008D	318A	HOLDER,DRIER	4930JJ3002A
145A	HOLDER,SHELF	4930JJ2003A	319A	TRAY,DRIP	3390JJ0003A
145B	HOLDER,SHELF	4930JJ2004A	319C	GUIDE,FAN	4974JJ1009A
145D	GUIDE,RAIL	4974JJ1012A	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
145E	GUIDE,RAIL	4974JJ1014A	327A	CAP,DRAIN PIPE	5006JA3034A
145F	GUIDE,RAIL	4974JJ1013A	328A	RUBBER,DAMPING	4J03020A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	328B	RUBBER,DAMPING	4J04328A
146A	CAN STORAGE,LOWER	5047JJ1001A	329A	FAN ASSEMBLY	5901JJ1005A
147A	BANK,DAIRY	5074JJ1005A	329C	FAN ASSEMBLY	5901JJ1004B
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020C	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
151C	KNOB,SHUTTER	4940JJ2003B	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
154A	COVER,T/V	3550JL1006C	404A	MOTOR(MECH),FAN	4680JK1002B
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
158A	COVER,LAMP	3550JJ1040A	405B	BRACKET,MOTOR	4810JA3007A
158E	COVER,LAMP	3550JJ1051A	405C	RUBBER,MOTOR-N	J756-00008B
167B	GLASS,SHELF	4890JL1002H	406B	SWITCH,[PUSH]	6600JB1004A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	409B	LAMP,[INCANDESCENT]	6912JK2002C
200A	DOOR ASSEMBLY,F	3581JJ8020P	409D	REFLECTOR,LAMP	3034JJ1002B
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018B	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A	410G	CAPACITOR,DRAWING	0CZZJB2003H
205A	BASKET,DOOR	5004JJ1042B	411A	POWER CORD ASSEMBLY	6411JK1006A
205B	BASKET,TILT	5004JJ2005B	418A	HEATER,SHEATH	5300JB1100J
205C	BASKET,TILT	5004JJ2005A	420A	MOTOR(MECH),COOLING	4680JK1001B
212A	HANDLE,F	3650JJ1017K	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
212G	NAME PLATE,P(H)	4140JD2001C	501F	COVER,PWB	3550JJ1042B
230A	DOOR ASSEMBLY,R	3581JJ8024B	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019B	503D	CASE,DISPLAY	3110JJ1005A
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B	503E	COVER,DISPLAY	3550JJ2031A
237A	GUIDE,BOTTLE	4974JJ2021A	503G	DECO,CONTROL	3806JL1009A
241A	COVER,TRAY	3550JL2003H	602A	HOLDER,BRACKET	4930JA3037A
241B	BASKET,DOOR	5004JJ1021A	607A	HOLDER,BRACKET	4930JJ2013A
241C	BASKET,DOOR	5004JJ1031A	607A	HOLDER,BRACKET	4930JJ2013A
241D	BASKET,DOOR	5004JJ0001A	610A	COVER,SENSOR	3550JJ2020A
241E	BASKET,DOOR	5004JJ1029A	619B	COVER,VALVE	3550JJ2024A
243A	STOPPER,DOOR	4620JJ3006A	623H	COVER,TUBE	3550JJ2036A
243A	STOPPER,DOOR	4620JJ3006A	700B	HANDLE ASSEMBLY,F	3651JJ0002D
244A	HANDLE,R	3650JJ2008R	700C	HANDLE ASSEMBLY,R	3651JJ1017H
244B	HOLDER,HANDLE	4930JJ2009E	903A	COVER,LOWER	3550JJ0006A
244C	HOLDER,HANDLE	4930JJ2010E	903B	HOLDER,COVER LOWER	4930JJ2021A
244D	HOLDER,HANDLE	4930JJ2012E	903D	SENSOR	6500JK1003A
244K	HOLDER,HANDLE	4930JJ2011E	903E	SENSOR	6500JK1004A
248E	DECO,TRAY	3806JJ1018A	B01	SCREW,DRAWING	1STZJA3004F
248F	SUPPORTER,HOLDER	4980JJ2005A	S01	SCREW,DRAWING	1SZZJJ3010A
249C	HOLDER,RAIL	4930JJ1006A	S07	SCREW,DRAWING	4000W4A003A
249D	HOLDER,RAIL	4930JJ1006B	S22	SCREW,DRAWING	3J05696C
249E	GUIDE,RAIL	4974JJ1010A	S24	SCREW,DRAWING	1SZZJA3011B
249F	DECO,TRAY	3806JJ2017A	S27	SCREW,DRAWING	4J01424C
249G	GUIDE,RAIL	4974JJ1011A	S28	SCREW,DRAWING	3J05696W
281A	COVER,HINGE	3550JJ2013A	S38	SCREW,DRAWING	4J00415D
281B	HINGE ASSEMBLY,U	4775JJ2003B			

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LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003M	281B	HINGE ASSEMBLY,U	4775JJ2003B
103B	HANDLE,BACK	3650JJ2003L	281C	HINGE ASSEMBLY,L	4775JJ2008A
103C	COVER ASSEMBLY,LOWER	3551JJ1015F	281E	CAP,HINGE	5006JJ3008C
103E	RAIL,SLIDE	5218JJ3001A	282B	HINGE ASSEMBLY,C	4775JJ8002E
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	282C	PIN,DRAWING	1PZZJJ3002F
105F	SKIRT,LOWER	5070JJ3002A	282E	CAP,HINGE	5006JJ2001F
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	282F	DECO,DUCT	3806JL2006E
106B	WASHER,DRAWING	4J00382C	282H	CAP,HINGE	5006JJ3004A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	283B	HINGE,L	4774JJ3001A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	283D	HINGE,L	4774JJ2002A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A	283F	STOPPER,DOOR	4620JJ2007B
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	284D	SCREW,DRAWING	1STZJA3004K
131A	BANK ASSEMBLY,ICE	5075JJ1001B	286A	BUSH	4984JJ3003A
135C	COVER,GRILLE FAN	3550JJ2030A	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
136B	TRAY,DRAWER	3390JJ1034A	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
136C	TRAY,DRAWER	3390JJ1027A	305B	ROLLER	4580JJ3001A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1013C	305B	ROLLER	4580JJ3001A
140B	SHELF ASSEMBLY,R	5027JJ2007B	305C	PIN,DRAWING	4J04238A
140D	SHELF,NET	5026JJ2001G	305C	PIN,DRAWING	4J04238A
140E	SHELF,NET	5026JJ2001H	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
142D	SHELF,NET	5026JJ2001L	308A	P.T.C ASSEMBLY	6748C-0004D
142E	SHELF,NET	5026JJ2001M	309A	O.L.P	6750CR0004S
143E	SHELF ASSEMBLY,R	5027JJ1008B	310A	COVER,P.T.C	3550JA2042A
143F	SHELF ASSEMBLY,R	5027JJ1008D	312A	RUBBER,SEAT	5040JA3031A
145A	HOLDER,SHELF	4930JJ2003A	314A	STOPPER,COMP	4620JA3009A
145B	HOLDER,SHELF	4930JJ2004A	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
145D	GUIDE,RAIL	4974JJ1012A	317A	DRIER ASSEMBLY	5851JJ2002B
145E	GUIDE,RAIL	4974JJ1014A	318A	HOLDER,DRIER	4930JJ3002A
145F	GUIDE,RAIL	4974JJ1013A	319A	TRAY,DRIP	3390JJ0003A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	319C	GUIDE,FAN	4974JJ1009A
147A	BANK,DAIRY	5074JJ1005A	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E	327A	CAP,DRAIN PIPE	5006JA3034A
151C	KNOB,SHUTTER	4940JJ2003B	328A	RUBBER,DAMPING	4J03020A
154A	COVER,T/V	3550JJ1033A	328B	RUBBER,DAMPING	4J04328A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A	329A	FAN ASSEMBLY	5901JJ1005A
158A	COVER,LAMP	3550JJ1040A	329C	FAN ASSEMBLY	5901JJ1004B
158E	COVER,LAMP	3550JJ1051A	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
160B	DECO,TRAY	3806JL2005D	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
161A	COVER,TRAY	3550JJ2026A	404A	MOTOR(MECH),FAN	4680JK1002B
167B	GLASS,SHELF	4890JL1002K	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
168A	COVER,MAGIC ROOM	3550JJ1035A	405B	BRACKET,MOTOR	4810JA3007A
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	405C	RUBBER,MOTOR-N	J756-00008B
200A	DOOR ASSEMBLY,F	3581JJ8020R	406B	SWITCH,[PUSH]	6600JB1004A
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018U	409B	LAMP,[INCANDESCENT]	6912JK2002C
203A	GASKET ASSEMBLY,DOOR	4987JJ1004E	409D	REFLECTOR,LAMP	3034JJ1002B
205A	BASKET,DOOR	5004JJ1042B	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
205B	BASKET,TILT	5004JJ2005B	410G	CAPACITOR,DRAWING	0CZZJB2003H
205C	BASKET,TILT	5004JJ2005A	411A	POWER CORD ASSEMBLY	6411JK1006A
212A	HANDLE,F	3650JJ1017H	418A	HEATER,SHEATH	5300JB1100J
212G	NAME PLATE,P(H)	4140JD2001C	420A	MOTOR(MECH),COOLING	4680JK1001B
230A	DOOR ASSEMBLY,R	3581JJ8024D	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019L	501F	COVER,PWB	3550JJ1042B
233A	GASKET ASSEMBLY,DOOR	4987JJ1004F	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
237A	GUIDE,BOTTLE	4974JJ2021A	503D	CASE,DISPLAY	3110JJ1005A
237D	GUIDE,DRAWER	4974JJ1019A	503E	COVER,DISPLAY	3550JJ2031A
237E	TRAY,DRAWER	3390JJ1036A	503G	DECO,CONTROL	3806JL1009A
241A	COVER,TRAY	3550JL2003H	602A	HOLDER,BRACKET	4930JA3037A
241B	BASKET,DOOR	5004JJ1021A	607A	HOLDER,BRACKET	4930JJ2013A
241C	BASKET,DOOR	5004JJ1031A	610A	COVER,SENSOR	3550JJ2020A
241D	BASKET,DOOR	5004JJ0001A	619B	COVER,VALVE	3550JJ2024A
241E	BASKET,DOOR	5004JJ1029A	623H	COVER,TUBE	3550JJ2036A
243A	STOPPER,DOOR	4620JJ3006C	700B	HANDLE ASSEMBLY,F	3651JJ0002B
244A	HANDLE,R	3650JJ2008E	700C	HANDLE ASSEMBLY,R	3651JJ1017F
244B	HOLDER,HANDLE	4930JJ2009A	903A	COVER,LOWER	3550JJ0006C
244C	HOLDER,HANDLE	4930JJ2010A	903B	HOLDER,COVER LOWER	4930JJ2021A
244D	HOLDER,HANDLE	4930JJ2012A	903D	SENSOR	6500JK1003A
244K	HOLDER,HANDLE	4930JJ2011A	903E	SENSOR	6500JK1004A
248E	DECO,TRAY	3806JJ1018A	B01	SCREW,DRAWING	1STZJA3004F
248F	SUPPORTER,HOLDER	4980JJ2005A	S01	SCREW,DRAWING	1SZZJJ3010A
249C	HOLDER,RAIL	4930JJ1006A	S07	SCREW,DRAWING	4000W4A003A
249D	HOLDER,RAIL	4930JJ1006B	S22	SCREW,DRAWING	3J05696C
249E	GUIDE,RAIL	4974JJ1010A	S24	SCREW,DRAWING	1SZZJA3011B
249F	DECO,TRAY	3806JJ2017A	S27	SCREW,DRAWING	4J01424C
249G	GUIDE,RAIL	4974JJ1011A	S28	SCREW,DRAWING	3J05696W
281A	COVER,HINGE	3550JJ2013C	S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003F	249G	GUIDE,RAIL	4974JJ1011A
103B	HANDLE,BACK	3650JJ2003B	281A	COVER,HINGE	3550JJ2013B
103C	COVER ASSEMBLY,LOWER	3551JJ1015D	281B	HINGE ASSEMBLY,U	4775JJ2003B
103E	RAIL,SLIDE	5218JJ3001A	281C	HINGE ASSEMBLY,L	4775JJ2008A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	281E	CAP,HINGE	5006JJ3008B
105F	SKIRT,LOWER	5070JJ3002A	282B	HINGE ASSEMBLY,C	4775JJ8002D
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	282C	PIN,DRAWING	1PZZJJ3002F
106B	WASHER,DRAWING	4J00382C	282E	CAP,HINGE	5006JJ2001E
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	282F	DECO,DUCT	3806JL2006E
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	282H	CAP,HINGE	5006JJ3004A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A	282Z	CAP,HANDLE	5006JJ3010B
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	283B	HINGE,L	4774JJ3001A
131A	BANK ASSEMBLY,ICE	5075JJ1001B	283D	HINGE,L	4774JJ2002A
135C	COVER,GRILLE FAN	3550JJ2030A	283F	STOPPER,DOOR	4620JJ2007A
136B	TRAY,DRAWER	3390JJ1034A	284D	SCREW,DRAWING	1STZJA3004K
136C	TRAY,DRAWER	3390JJ1027A	286A	BUSH	4984JJ3003A
136F	TRAY ASSEMBLY,DRAWER	3391JJ1013C	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
140B	SHELF ASSEMBLY,R	5027JJ2007B	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
140B	SHELF ASSEMBLY,R	5027JJ2007B	305B	ROLLER	4580JJ3001A
140D	SHELF,NET	5026JJ2001G	305C	PIN,DRAWING	4J04238A
140E	SHELF,NET	5026JJ2001H	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
142D	SHELF,NET	5026JJ2001L	308A	P.T.C ASSEMBLY	6748C-0004D
142E	SHELF,NET	5026JJ2001M	309A	O.L.P	6750CR0004S
143E	SHELF ASSEMBLY,R	5027JJ1008B	310A	COVER,P.T.C	3550JA2042A
143F	SHELF ASSEMBLY,R	5027JJ1008D	312A	RUBBER,SEAT	5040JA3031A
145A	HOLDER,SHELF	4930JJ2003A	314A	STOPPER,COMP	4620JA3009A
145B	HOLDER,SHELF	4930JJ2004A	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
145D	GUIDE,RAIL	4974JJ1012A	317A	DRIER ASSEMBLY	5851JJ2002B
145E	GUIDE,RAIL	4974JJ1014A	318A	HOLDER,DRIER	4930JJ3002A
145F	GUIDE,RAIL	4974JJ1013A	319A	TRAY,DRIP	3390JJ0003A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	319C	GUIDE,FAN	4974JJ1009A
147A	BANK,DAIRY	5074JJ1005A	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E	327A	CAP,DRAIN PIPE	5006JA3034A
151C	KNOB,SHUTTER	4940JJ2003B	328A	RUBBER,DAMPING	4J03020A
154A	COVER,T/V	3550JJ1033A	329A	FAN ASSEMBLY	5901JJ1005A
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001A	329C	FAN ASSEMBLY	5901JJ1004B
158A	COVER,LAMP	3550JJ1040A	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
158E	COVER,LAMP	3550JJ1051A	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
160B	DECO,TRAY	3806JL2005D	404A	MOTOR(MECH),FAN	4680JK1002B
161A	COVER,TRAY	3550JJ2026A	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
167B	GLASS,SHELF	4890JL1002K	405B	BRACKET,MOTOR	4810JA3007A
168A	COVER,MAGIC ROOM	3550JJ1035A	405C	RUBBER,MOTOR-N	J756-00008B
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	406B	SWITCH,[PUSH]	6600JB1004A
200A	DOOR ASSEMBLY,F	3581JJ8020E	409B	LAMP,[INCANDESCENT]	6912JK2002C
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018K	409D	REFLECTOR,LAMP	3034JJ1002B
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
205A	BASKET,DOOR	5004JJ1042B	410G	CAPACITOR,DRAWING	0CZZJB2003H
205B	BASKET,TILT	5004JJ2005B	411A	POWER CORD ASSEMBLY	6411JK1006A
205C	BASKET,TILT	5004JJ2005A	418A	HEATER,SHEATH	5300JB1100J
212G	NAME PLATE,P(H)	4140JD2001C	420A	MOTOR(MECH),COOLING	4680JK1001B
230A	DOOR ASSEMBLY,R	3581JJ8024S	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019F	501F	COVER,PWB	3550JJ1042B
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
237A	GUIDE,BOTTLE	4974JJ2021A	503D	CASE,DISPLAY	3110JJ1005A
237D	GUIDE,DRAWER	4974JJ1019A	503E	COVER,DISPLAY	3550JJ2031A
237E	TRAY,DRAWER	3390JJ1036A	503G	DECO,CONTROL	3806JL1009A
241A	COVER,TRAY	3550JL2003H	602A	HOLDER,BRACKET	4930JA3037A
241B	BASKET,DOOR	5004JJ1021A	610A	COVER,SENSOR	3550JJ2020A
241C	BASKET,DOOR	5004JJ1031A	619B	COVER,VALVE	3550JJ2024A
241D	BASKET,DOOR	5004JJ0001A	623H	COVER,TUBE	3550JJ2036A
241E	BASKET,DOOR	5004JJ1029A	903A	COVER,LOWER	3550JJ0006B
243A	STOPPER,DOOR	4620JJ3006B	903B	HOLDER,COVER LOWER	4930JJ2021A
243A	STOPPER,DOOR	4620JJ3006B	903D	SENSOR	6500JK1003A
244E	CAP,HANDLE	5006JJ3016B	903E	SENSOR	6500JK1004A
244H	HANDLE,R	3650JJ0006B	B01	SCREW,DRAWING	1STZJA3004F
244J	DECO,HANDLE	3806JJ1020C	S01	SCREW,DRAWING	1SZZJJ3010A
244M	DECO,HANDLE	3806JJ1020D	S02	SCREW,DRAWING	1SZZJJ3010E
244P	HANDLE,F	3650JJ2012C	S03	BOLT,DRAWING	1BHZA3003D
248E	DECO,TRAY	3806JJ1018A	S07	SCREW,DRAWING	4000W4A003A
248F	SUPPORTER,HOLDER	4980JJ2005A	S22	SCREW,DRAWING	3J05696C
249C	HOLDER,RAIL	4930JJ1006A	S24	SCREW,DRAWING	1SZZJA3011B
249D	HOLDER,RAIL	4930JJ1006B	S27	SCREW,DRAWING	4J01424C
249E	GUIDE,RAIL	4974JJ1010A	S28	SCREW,DRAWING	3J05696W
249F	DECO,TRAY	3806JJ2017A	S38	SCREW,DRAWING	4J00415D

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LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003E	281A	COVER,HINGE	3550JJ2013A
103B	HANDLE,BACK	3650JJ2003A	281B	HINGE ASSEMBLY,U	4775JJ2003B
103C	COVER ASSEMBLY,LOWER	3551JJ1015B	281C	HINGE ASSEMBLY,L	4775JJ2008A
103E	RAIL,SLIDE	5218JJ3001A	281E	CAP,HINGE	5006JJ3008A
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	282B	HINGE ASSEMBLY,C	4775JJ8002F
105F	SKIRT,LOWER	5070JJ3002A	282C	PIN,DRAWING	1PZZJJ3002F
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	282E	CAP,HINGE	5006JJ2001A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	282F	DECO,DUCT	3806JL2006E
106B	WASHER,DRAWING	4J00382C	282H	CAP,HINGE	5006JJ3004A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	282Z	CAP,HANDLE	5006JJ3010A
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	283B	HINGE,L	4774JJ3001A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A	283D	HINGE,L	4774JJ2002A
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	283F	STOPPER,DOOR	4620JJ2007A
131A	BANK ASSEMBLY,ICE	5075JJ1001B	284D	SCREW,DRAWING	1STZJA3004K
135C	COVER,GRILLE FAN	3550JJ2030A	286A	BUSH	4984JJ3003A
136B	TRAY,DRAWER	3390JJ1034A	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
136C	TRAY,DRAWER	3390JJ1027A	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
136F	TRAY ASSEMBLY,DRAWER	3391JJ1013C	305B	ROLLER	4580JJ3001A
140B	SHELF ASSEMBLY,R	5027JJ2007B	305B	ROLLER	4580JJ3001A
140D	SHELF,NET	5026JJ2001G	305C	PIN,DRAWING	4J04238A
140E	SHELF,NET	5026JJ2001H	305C	PIN,DRAWING	4J04238A
142D	SHELF,NET	5026JJ2001L	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
142E	SHELF,NET	5026JJ2001M	308A	P.T.C ASSEMBLY	6748C-0004D
143E	SHELF ASSEMBLY,R	5027JJ1008B	309A	O.L.P	6750CR0004S
143F	SHELF ASSEMBLY,R	5027JJ1008D	310A	COVER,P.T.C	3550JA2042A
145A	HOLDER,SHELF	4930JJ2003A	312A	RUBBER,SEAT	5040JA3031A
145B	HOLDER,SHELF	4930JJ2004A	314A	STOPPER,COMP	4620JA3009A
145D	GUIDE,RAIL	4974JJ1012A	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
145E	GUIDE,RAIL	4974JJ1014A	317A	DRIER ASSEMBLY	5851JJ2002B
145F	GUIDE,RAIL	4974JJ1013A	318A	HOLDER,DRIER	4930JJ3002A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	319A	TRAY,DRIP	3390JJ0003A
147A	BANK,DAIRY	5074JJ1005A	319C	GUIDE,FAN	4974JJ1009A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1019E	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
151C	KNOB,SHUTTER	4940JJ2003B	327A	CAP,DRAIN PIPE	5006JA3034A
154A	COVER,T/V	3550JJ1033A	328A	RUBBER,DAMPING	4J03020A
155B	SUPPORTER ASSEMBLY,COVER-TA	4981JJ2001A	328B	RUBBER,DAMPING	4J04328A
158A	COVER,LAMP	3550JJ1040A	329A	FAN ASSEMBLY	5901JJ1005A
158E	COVER,LAMP	3550JJ1051A	329C	FAN ASSEMBLY	5901JJ1004B
160B	DECO,TRAY	3806JL2005D	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
161A	COVER,TRAY	3550JJ2026A	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
167B	GLASS,SHELF	4890JL1002K	404A	MOTOR(MECH),FAN	4680JK1002B
168A	COVER,MAGIC ROOM	3550JJ1035A	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	405B	BRACKET,MOTOR	4810JA3007A
200A	DOOR ASSEMBLY,F	3581JJ8020A	405C	RUBBER,MOTOR-N	1756-00008B
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018E	406B	SWITCH,[PUSH]	6600JB1004A
203A	GASKET ASSEMBLY,DOOR	4987JJ1004A	409B	LAMP,[INCANDESCENT]	6912JK2002C
205A	BASKET,DOOR	5004JJ1042B	409D	REFLECTOR,LAMP	3034JJ1002B
205B	BASKET,TILT	5004JJ2005B	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
205C	BASKET,TILT	5004JJ2005A	410G	CAPACITOR,DRAWING	0CZZJB2003H
212G	NAME PLATE,P(H)	4140JD2001C	411A	POWER CORD ASSEMBLY	6411JK1006A
230A	DOOR ASSEMBLY,R	3581JJ8024N	418A	HEATER,SHEATH	5300JB1100J
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019C	420A	MOTOR(MECH),COOLING	4680JK1001B
233A	GASKET ASSEMBLY,DOOR	4987JJ1004B	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
237A	GUIDE,BOTTLE	4974JJ2021A	501F	COVER,PWB	3550JJ1042B
237D	GUIDE,DRAWER	4974JJ1019A	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
237E	TRAY,DRAWER	3390JJ1036A	503D	CASE,DISPLAY	3110JJ1005A
241A	COVER,TRAY	3550JL2003H	503E	COVER,DISPLAY	3550JJ2031A
241B	BASKET,DOOR	5004JJ1021A	503G	DECO,CONTROL	3806JL1009A
241C	BASKET,DOOR	5004JJ1031A	602A	HOLDER,BRACKET	4930JA3037A
241D	BASKET,DOOR	5004JJ0001A	610A	COVER,SENSOR	3550JJ2020A
241E	BASKET,DOOR	5004JJ1029A	619B	COVER,VALVE	3550JJ2024A
243A	STOPPER,DOOR	4620JJ3006A	623H	COVER,TUBE	3550JJ2036A
243A	STOPPER,DOOR	4620JJ3006A	903A	COVER,LOWER	3550JJ0006A
244E	CAP,HANDLE	5006JJ3016A	903B	HOLDER,COVER LOWER	4930JJ2021A
244H	HANDLE,R	3650JJ0006A	903D	SENSOR	6500JK1003A
244J	DECO,HANDLE	3806JJ1020A	903E	SENSOR	6500JK1004A
244M	DECO,HANDLE	3806JJ1020B	B01	SCREW,DRAWING	1STZJA3004F
244P	HANDLE,F	3650JJ2012A	S01	SCREW,DRAWING	1SZZJJ3010A
248E	DECO,TRAY	3806JJ1018A	S02	SCREW,DRAWING	1SZZJJ3010B
248F	SUPPORTER,HOLDER	4980JJ2005A	S03	BOLT,DRAWING	1BHZJA3003D
249C	HOLDER,RAIL	4930JJ1006A	S07	SCREW,DRAWING	4000W4A003A
249D	HOLDER,RAIL	4930JJ1006B	S22	SCREW,DRAWING	3J05696C
249E	GUIDE,RAIL	4974JJ1010A	S24	SCREW,DRAWING	1SZZJA3011B
249F	DECO,TRAY	3806JJ2017A	S27	SCREW,DRAWING	4J01424C
249G	GUIDE,RAIL	4974JJ1011A	S28	SCREW,DRAWING	3J05696W
			S38	SCREW,DRAWING	4J00415D

LOC	DESCRIPCION	NO. DE PARTE	LOC	DESCRIPCION	NO. DE PARTE
103A	HANDLE,BACK	3650JJ2003M	281E	CAP,HINGE	5006JJ3008C
103B	HANDLE,BACK	3650JJ2003L	282B	HINGE ASSEMBLY,C	4775JJ8002E
103C	COVER ASSEMBLY,LOWER	3551JJ1015F	282C	PIN,DRAWING	1PZZJJ3002F
103E	RAIL,SLIDE	5218JJ3001A	282E	CAP,HINGE	5006JJ2001F
105A	DRAIN ASSEMBLY,PIPE-Z	5251JA3003B	282F	DECO,DUCT	3806JL2006E
105F	SKIRT,LOWER	5070JJ3002A	282H	CAP,HINGE	5006JJ3004A
106A	LEG ASSEMBLY,ADJUST	4779JJ2001A	283B	HINGE,L	4774JJ3001A
106B	WASHER,DRAWING	4J00382C	283D	HINGE,L	4774JJ2002A
120B	DUCT ASSEMBLY,MULTI	5209JJ1002A	283F	STOPPER,DOOR	4620JJ2007B
125A	TRAY ASSEMBLY,ICE	3391JJ1009B	284D	SCREW,DRAWING	1STZJA3004K
125D	HOLDER,BRACKET	4930JJ3007A	286A	BUSH	4984JJ3003A
128A	GUIDE ASSEMBLY,RAIL	4975JJ2002A	301A	EVAPORATOR ASSEMBLY	5421JJ1001B
128B	GUIDE ASSEMBLY,RAIL	4975JJ2002B	304A	COVER ASSEMBLY,BACK-M/C	3551JJ2008B
131A	BANK ASSEMBLY,ICE	5075JJ1001B	305B	ROLLER	4580JJ3001A
135C	COVER,GRILLE FAN	3550JJ2030A	305B	ROLLER	4580JJ3001A
136B	TRAY,DRAWER	3390JJ1034A	305C	PIN,DRAWING	4J04238A
136C	TRAY,DRAWER	3390JJ1027A	307A	COMPRESSOR,SET ASSEMBLY	2521C-A5725
136F	TRAY ASSEMBLY,DRAWER	3391JJ1013C	308A	P.T.C ASSEMBLY	6748C-0004D
140B	SHELF ASSEMBLY,R	5027JJ2007B	309A	O.L.P	6750CR0004S
140D	SHELF,NET	5026JJ2001G	310A	COVER,P.T.C	3550JA2042A
140E	SHELF,NET	5026JJ2001H	312A	RUBBER,SEAT	5040JA3031A
142D	SHELF,NET	5026JJ2001L	314A	STOPPER,COMP	4620JA3009A
142E	SHELF,NET	5026JJ2001M	315A	COMP BASE ASSEMBLY,STD	3103JJ1001J
143F	SHELF ASSEMBLY,R	5027JJ1008D	317A	DRIER ASSEMBLY	5851JJ2002B
145A	HOLDER,SHELF	4930JJ2003A	318A	HOLDER,DRIER	4930JJ3002A
145B	HOLDER,SHELF	4930JJ2004A	319A	TRAY,DRIP	3390JJ0003A
145D	GUIDE,RAIL	4974JJ1012A	319C	GUIDE,FAN	4974JJ1009A
145E	GUIDE,RAIL	4974JJ1014A	323B	CONDENSER ASSEMBLY,WIRE	5403JJ1007A
145F	GUIDE,RAIL	4974JJ1013A	327A	CAP,RAIN PIPE	5006JA3034A
145G	GUIDE ASSEMBLY,RAIL	4975JJ2005B	328A	RUBBER,DAMPING	4J03020A
146A	CAN STORAGE,LOWER	5047JJ1001A	328B	RUBBER,DAMPING	4J04328A
147A	BANK,DAIRY	5074JJ1005A	329A	FAN ASSEMBLY	5901JJ1005A
151A	TRAY ASSEMBLY,VEGETABLE	3391JJ1020C	329C	FAN ASSEMBLY	5901JJ1004B
151C	KNOB,SHUTTER	4940JJ2003B	332A	GRILLE ASSEMBLY,FAN	3531JJ1004A
154A	COVER,T/V	3550JJ1006C	401A	CONTROLLER ASSEMBLY(CIRC)	6615JB2005C
155B	SUPPORTER ASSEMBLY,COVER-T/V	4981JJ2001B	404A	MOTOR(MECH),FAN	4680JK1002B
158A	COVER,LAMP	3550JJ1040A	405A	BRACKET ASSEMBLY,MOTOR	4811JJ2002B
158E	COVER,LAMP	3550JJ1051A	405B	BRACKET,MOTOR	4810JA3007A
167B	GLASS,SHELF	4890JL1002H	405C	RUBBER,MOTOR-N	J756-00008B
170A	TRAY ASSEMBLY,MEAT	3391JJ2004H	406B	SWITCH,[PUSH]	6600JB1004A
200A	DOOR ASSEMBLY,F	3581JJ8020R	409B	LAMP,[INCANDESCENT]	6912JK2002C
201A	DOOR FOAM ASSEMBLY,F	5433JJ0018U	409D	REFLECTOR,LAMP	3034JJ1002B
203A	GASKET ASSEMBLY,DOOR	4987JJ1004E	410A	SOCKET ASSEMBLY,LAMP	6621JK2002D
205A	BASKET,DOOR	5004JJ1042B	410G	CAPACITOR,DRAWING	0CZZJB2003H
205B	BASKET,TILT	5004JJ2005B	411A	POWER CORD ASSEMBLY	6411JK1006A
205C	BASKET,TILT	5004JJ2005A	418A	HEATER,SHEATH	5300JB1100J
212A	HANDLE,F	3650JJ1017H	420A	MOTOR(MECH),COOLING	4680JK1001B
212G	NAME PLATE,P(H)	4140JD2001C	501A	PWB(PCB) ASSEMBLY,MAIN	6871JB1215A
230A	DOOR ASSEMBLY,R	3581JJ8024D	501F	COVER,PWB	3550JJ1042B
231A	DOOR FOAM ASSEMBLY,R	5433JJ0019L	503C	PWB(PCB) ASSEMBLY,DISPLAY	6871JB2047A
233A	GASKET ASSEMBLY,DOOR	4987JJ1004F	503D	CASE,DISPLAY	3110JJ1005A
237A	GUIDE,BOTTLE	4974JJ2021A	503E	COVER,DISPLAY	3550JJ2031A
241A	COVER,TRAY	3550JL2003H	503G	DECO,CONTROL	3806JL1009A
241B	BASKET,DOOR	5004JJ1021A	602A	HOLDER,BRACKET	4930JA3037A
241C	BASKET,DOOR	5004JJ1031A	607A	HOLDER,BRACKET	4930JJ2013A
241D	BASKET,DOOR	5004JJ0001A	607A	HOLDER,BRACKET	4930JJ2013A
241E	BASKET,DOOR	5004JJ1029A	610A	COVER,SENSOR	3550JJ2020A
243A	STOPPER,DOOR	4620JJ3006C	619B	COVER,VALVE	3550JJ2024A
243A	STOPPER,DOOR	4620JJ3006C	623H	COVER,TUBE	3550JJ2036A
244A	HANDLE,R	3650JJ2008E	700B	HANDLE ASSEMBLY,F	3651JJ0002B
244B	HOLDER,HANDLE	4930JJ2009A	700C	HANDLE ASSEMBLY,R	3651JJ1017F
244C	HOLDER,HANDLE	4930JJ2010A	903A	COVER,LOWER	3550JJ0006C
244D	HOLDER,HANDLE	4930JJ2012A	903B	HOLDER,COVER LOWER	4930JJ2021A
244K	HOLDER,HANDLE	4930JJ2011A	903D	SENSOR	6500JK1003A
248E	DECO,TRAY	3806JJ1018A	903E	SENSOR	6500JK1004A
248F	SUPPORTER,HOLDER	4980JJ2005A	B01	SCREW,DRAWING	1STZJA3004F
249C	HOLDER,RAIL	4930JJ1006A	S01	SCREW,DRAWING	1SZZJJ3010A
249D	HOLDER,RAIL	4930JJ1006B	S07	SCREW,DRAWING	4000W4A003A
249E	GUIDE,RAIL	4974JJ1010A	S22	SCREW,DRAWING	3J05696C
249F	DECO,TRAY	3806JJ2017A	S24	SCREW,DRAWING	1SZZJA3011B
249G	GUIDE,RAIL	4974JJ1011A	S27	SCREW,DRAWING	4J01424C
281A	COVER,HINGE	3550JJ2013C	S28	SCREW,DRAWING	3J05696W
281B	HINGE ASSEMBLY,U	4775JJ2003B	S38	SCREW,DRAWING	4J00415D
281C	HINGE ASSEMBLY,L	4775JJ2008A			



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