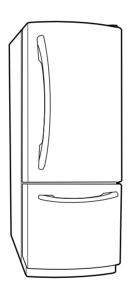


REFRIGERATOR SERVICE MANUAL

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



MODELS: LDN22735SW/ SB/ ST

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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.
- Service on the refrigerator should be performed by a qualified technician. Sealed system repair must be performed by a CFC certified technician.

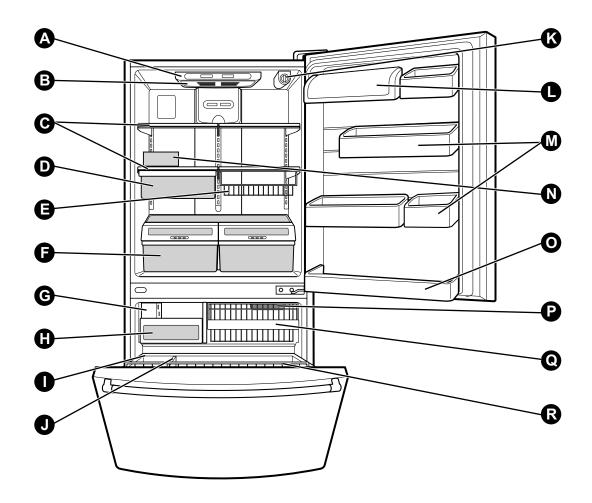
1. SPECIFICATIONS

22 cu. ft.

ITEMS	SPECIFICATIONS
DOOR DESIGN	Side Rounded
DIMENSIONS (inches)	32 ⁷ / ₈ x 31 ³ / ₄ x 68 ¹ / ₂ (WxDxH) 22cu.ft
NET WEIGHT (pounds)	
NET WEIGHT (pounds)	246.9 (22cu.ft)
COOLING SYSTEM	Fan Cooling
TEMPERATURE CONTROL	Micom Control
DEFROSTING SYSTEM	Full Automatic
DEFROSTING SYSTEM	Heater Defrost
DOOR FINISH	Embossed Metal, VCM, Stainless
HANDLE TYPE	Bar, Al
INNER CASE	ABS Resin
INSULATION	Polyurethane Foam

ITEMS		SPECIFICATIONS		
VEGETA	ABLE TRAY	Opaque Drawer Type		
COMPR	ESSOR	PTC Starting Type		
EVAPOR	RATOR	Fin Tube Type		
CONDENSER		Wire Condenser		
REFRIGERANT		R-134a (115 g)		
LUBRICATING OIL		Freol @ 10G (310 cc)		
DEFROSTING DEVICE		SHEATH HEATER		
LAMP	REFRIGERATOR	60 W (2EA)		
LAIVIP	FREEZER	6 W (2EA)		

2. PARTS IDENTIFICATION

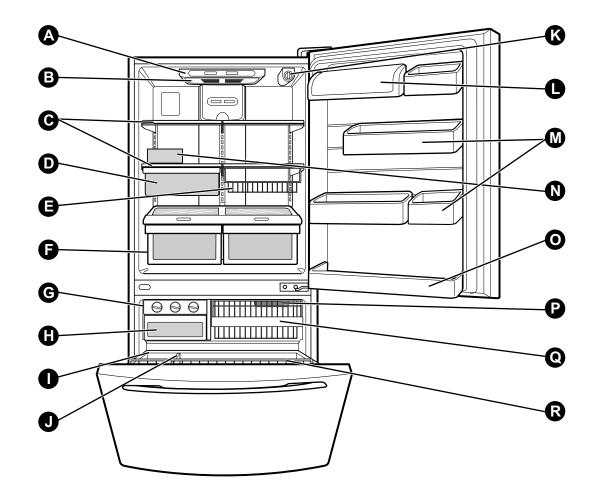


NOTE: This guide covers several different models. The refrigerator you have purchased may have some or all of the items listed below. The locations of the features shown below may not match your model.

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

- KFilter (inside)*
- Dairy Bin
- M Design-A-Door
- N Egg Box
- ORefrigerator Door Rack
- Preezer Light
- **Q** Wire Basket
- R Freezer Door Rack (Tilting*)

^{*}on some models



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

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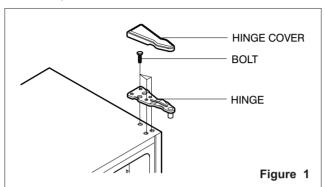
^{*}on some models

3. DISASSEMBLY

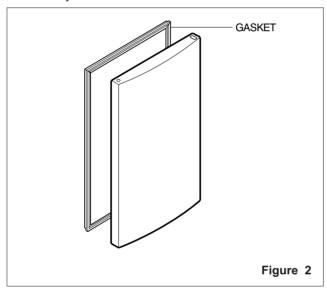
3-1 DOOR

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.

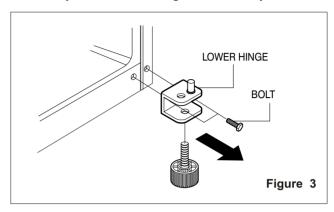


3. Pull out the door gasket to remove from the door foam assembly.



Freezer Door

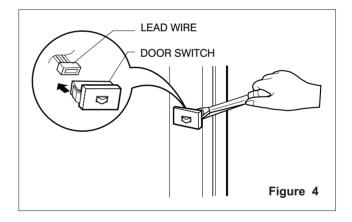
1. Loosen the hexagonal bolts attaching the lower hinge to the body to remove the refrigerator door only.



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

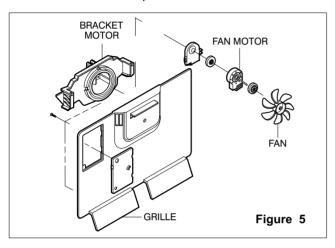
3-2 DOOR SWITCH

- 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)
- 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.



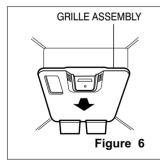
3-4 DEFROST CONTROL ASSEMBLY

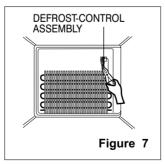
Defrost Control assembly consists of Defrost Sensor and FUSE-M.

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.

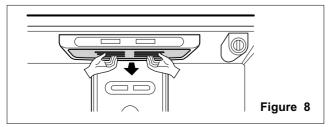
Fuse-M is a safety device for preventing over-heating of the Heater when defrosting.

- 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)



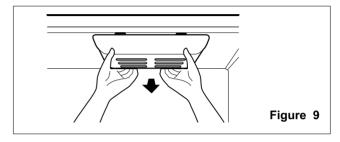


3-5 LAMP



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.
- Assemble in reverse order of disassembly. Replacement bulb must be the same specification as the original (Max. 60 W-2EA).

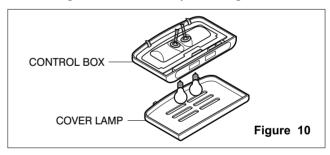


3-5-2 Freezer Compartment Lamp

- 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

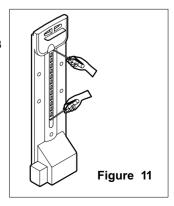
1. First, remove all shelves in the refrigerator, than remove the Refrigerator control Box by loosening 2 screws.



- 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 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.



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

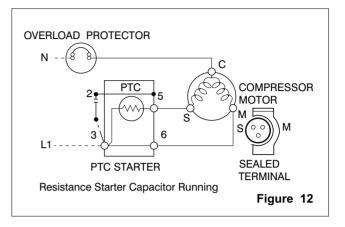
4-2-1 Composition of PTC-Starter

- 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

- 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.

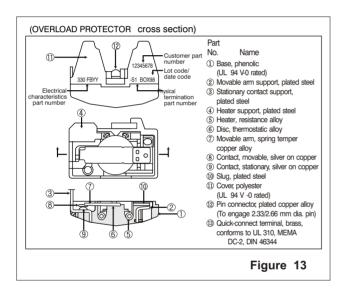
4-3 OLP (OVERLOAD PROTECTOR)

4-3-1 Definition of OLP

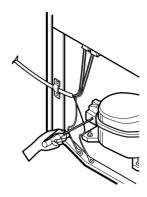
- (1) OLP (OVERLOAD PROTECTOR) is attached to the Compressor and protects the Motor by opening the circuit to the Motor if the temperature rises and activating the bimetal spring in the OLP.
- (2) When high current flows to the Compressor motor, the Bimetal works by heating the heater inside the OLP,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



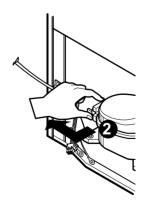
4-4 TO REMOVE THE COVER PTC



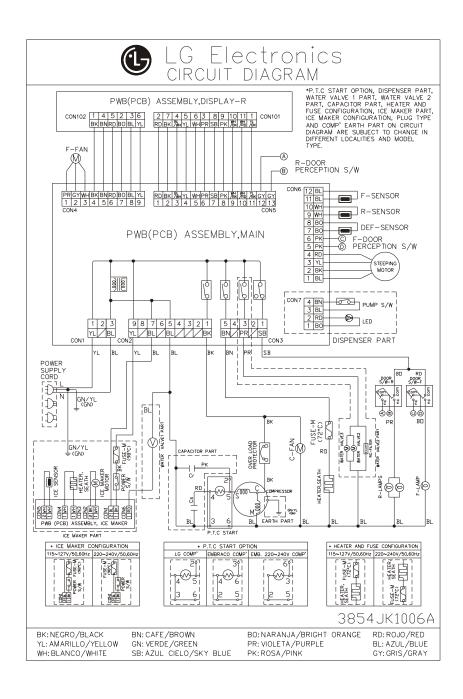
- 1) Remove the Cover Back M/C.
- (2) Remove the screw on Cover PTC.



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

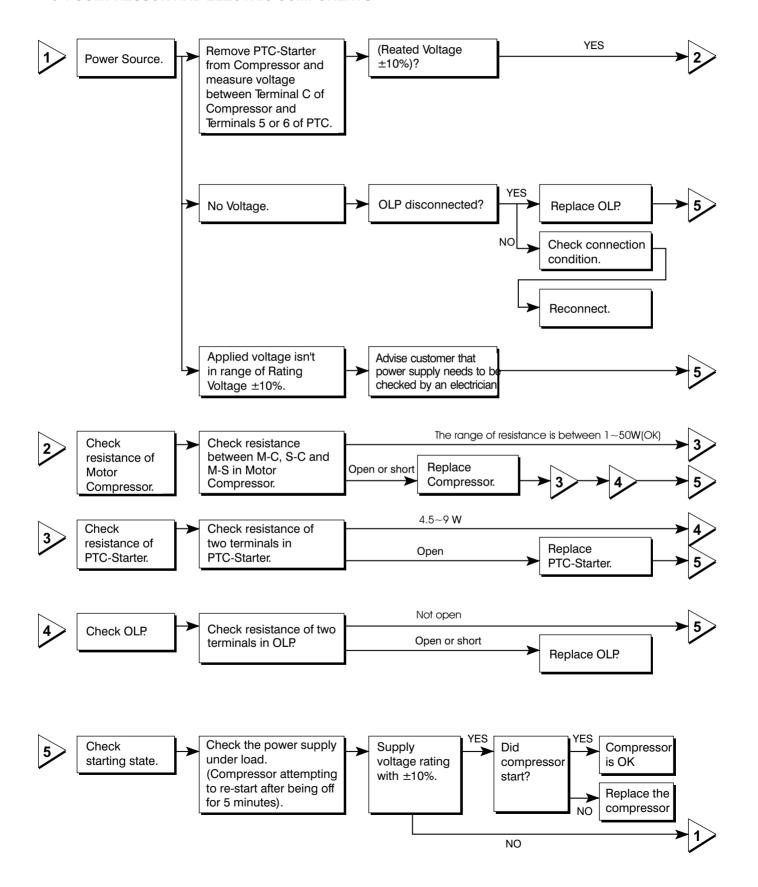


- (5) Turn 45 i in the direction of and take it out.
- (6) Assembly in reverse order of disassembly.

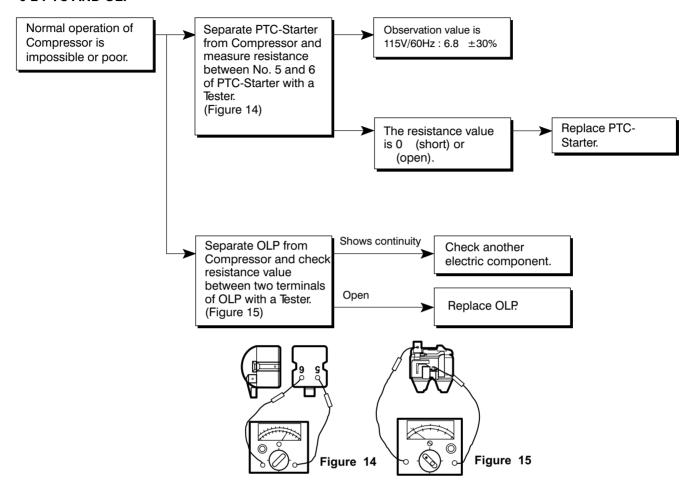


6. TROUBLESHOOTING

6-1 COMPRESSOR AND ELECTRIC COMPONENTS

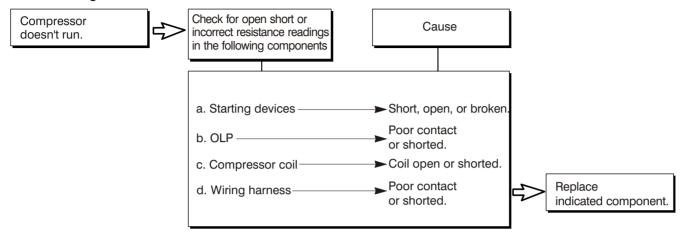


6-2 PTC AND OLP

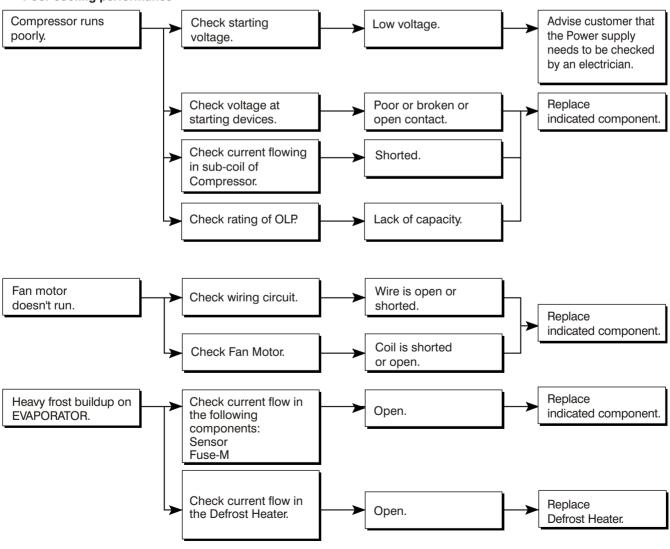


6-3 OTHER ELECTRICAL COMPONENTS

Not cooling at all



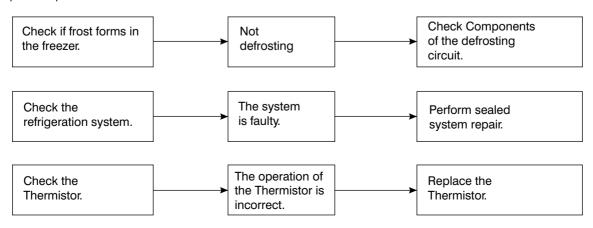
Poor cooling performance



6-4 SERVICE DIAGNOSIS CHART

COMPLAINT	POINTS TO BE CHECKED	REMEDY
No Cooling.	 Is the power cord unplugged from the outlet? Check if the power switch is set to OFF. Check if the fuse of the power switch is shorted. Measure the voltage of the power outlet. 	 Plug into the outlet. Set the switch to ON. Replace the fuse. If the voltage is low, correct the wiring.
Cools poorly.	Check if the unit is placed too close to the wall. Check if the unit is placed too close to the stove, gas cooker, or in direct sunlight. Is the ambient temperature too high or the room door closed? Check if food put in the refrigerator is hot. Did you open the door of the unit too often or check if the door is sealed properly? Check if the Control is set to Warm position.	 Place the unit about 4 inches (10 cm) from the wall. Place the unit away from these heat sources. Lower the ambient temperature. Put in foods after they have cooled down. Don't open the door too often and close it firmly. Set the control to Recommended position.
Foods in the Refrigerator are frozen.	 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)? 	 Place foods in the high-temperature section. (front part) Set the control to Recommended position. Set the control to Warm position.
Condensartion 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.
Condensartion 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 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.	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:



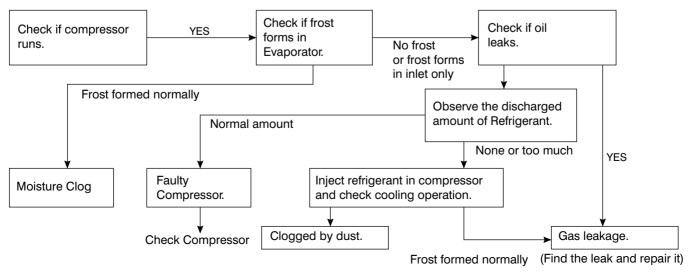
6-5 REFRIGERATION CYCLE

Troubleshooting Chart

CAUSE		STATE OF THE UNIT	STATE OF THE EVAPORATOR	TEMPERATURE OF THE COMPRESSOR	REMARKS
PARTIAL LEAKAGE COMPLETE 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.
		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	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.
BY DUST	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.
COMPRE	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.	Low pressure at high side of compressor due to low refrigerant level.
ESSION		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.

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.



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 37°F for the Refrigerator and 0 °F for the Freezer.

 You can adjust the Refrigerator and the Freezer control temperature by pressing the COLDER button or the WARMER button.
- 2. When the power is initially applied or restored after a power failure, it is set to the setting temperature as you set before power off. (applied to DISPENSER MODEL)

BEST MODEL



7-1-2 How to Change the Temperature Mode to °F / °C

- 1. The setting temperature mode can be changed to F / C by pressing and holding COLDER key of Freezer and COLDER key of Refrigerator over 1 second. at the same time.
- 2. The initial setting is °F. Whenever the mode is changed, the LED lights are changed.

7-1-4 CONTROL OF FREEZER FAN MOTOR

- 1. Freezer fan motor has high and standard speeds.
- 2. High speed is used at power-up, for Ice Plus, and when refrigerator is overloaded. Standard speeds is used for general purposes.
- 3. To improve cooling speed, the RPM of the freezer fan motor change from normal speed to high.
- 4. High speed (2700RPM): Initial power on or load corresponding operation, Ice Plus. Normal speed (2400RPM): General working conditions.
- 5. Fan motor stops when refrigerator or freezer door opens.

7-1-5 ICE PLUS

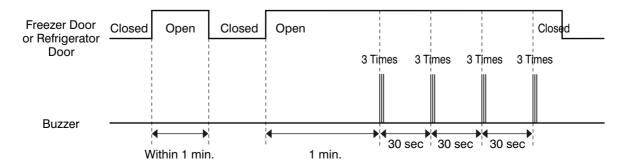
- 1. The purpose of this function is to intensify the cooling speed of freezer and to increase the amount of ice.
- 2. Whenever selection switch is pressed, selection/release, the LED will turn ON or OFF.
- 3. If there is a power cutage and the refrigerator is power on again, ICE PLUS function will be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

7-1-6 REFRIGERATOR LAMP AUTO OFF

1. To avoid heat damage caused by the lamp, it is turned off automatically when the refrigerator door is open for more than 7 minutes.

7-1-7 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.



7-1-8 Buzzer Sound

When the button on the front Display is pushed, a Ding~ Dong~ sound is produced. (Refer to the Buzzer Circuit 8-2-4 No. 3)

7-1-9 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, 8-1-13.)
- 4. Defrosting won't function if its sensor is defective (wires are cut or short circuited)

7-1-10 Filter Replacement Indication

- 1. In 6 months after the UNIT (refrigerator) is power on, or after 28,000 seconds of dispenser use, the water filter Indicator LED (red color) will be ON.
- 2. When the water filter indicator LED is illuminated, you should change the water filter. After this, you must press the water filter button for three seconds and you will hear a ding-dong sound.
 - The LED will be OFF This operation will indicate that the UNIT is reset to its initial conditions, so this process is restarted.

7-1-11Power Failure Compensation Function

- 1. When the UNIT is power off, the Fresh Food and Freezer Temperature notches, the filter elapsed time for replacement, the temperature mode (°C or °F) and the dispenser lock mode are saved in the EEPROM.
- 2. When the UNIT is power on, the MICOM will read the specified EEPROM addresses to restore the values indicated in the previous paragraph.

7-1-12 Electrical Parts Are Turned On Sequentially

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

OPERATING		ORDERS			
Initial	Temperature of Defrosting Sensor is 113°F(45°C) or more (when unit is newly purchased or when moved)	POWER in 1/2 second COMP in 1/2 second Freezer FAN ON → ON → ON			
ial power on	Temperature of defrosting sensor is lower than 113°F(45°C) (when power cuts, SERVICE)	POWER in 1/2 second Defrosting in 10 second Defrosting ON → heater ON → heater OFF			
	(which power date, deliving)	in 1/2 second COMP in 1/2 second Freezer FAN ON ON			
	et to normal operation n TEST MODE	Total load in 7 minute COMP in 1/2 second Freezer FAN OFF → ON → ON			

7-1-13 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.

BEST MODEL



ERROR CODE on display panel

NO	ITEM	ERROR CODE		CONTENTS	REMARKS	
NO	I I CIVI			CONTENTS	REWARKS	
1	Failure of freezer sensor	Er	FS	Cut or short circuit wire		
2	Failure of Refrigerator sensor	Er	rS	Cut or short circuit wire	Inspect Connecting wires on each sensor	
3	Failure of defrost sensor	Er	dS	Cut or short circuit wire		
4	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)	
5	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 wire	

7-1-14 TEST Mode

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

MODE	MANIPULATION	CONTENTS	REMARKS
TEST1	Push ICE PLUS key and COLDER KEY of Freezer Temp. at the same time over 3 seconds.	 Continuous operation of the COMPRESSOR Continuous operation of the freezer fan STEPPING DAMPER OPEN Defrosting Heater OFF Every DISPLAY LED ON 	
TEST2	Push ICE PLUS key and COLDER KEY of Freezer Temp. at the same time over 3 seconds in TEST MODE 1	 COMP OFF Freezer FAN OFF STEPPING DAMPER CLOSE Defrosting heater ON DISPLAY LED shows 222 	Reset if the temperature of the Defrosting sensor is 46°F(8°C) or more.
Reset	Push ICE PLUS 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 WARMER button in the refrigerator temperature control and the WARMER button in the freezer temperature control are pushed and held for 1 second or longer, every LED on the display turns on at the same time. When the buttons 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.

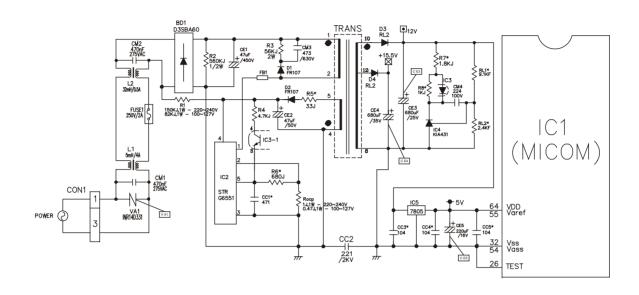
* Demostration MODE:

- 1. When the WARMER KEY of refrigerator Temp. control or of freezer Temp. control in the the warmest temperature status are pushed and held for 3 seconds or longer, It converts to Demonstration Mode.
- 2. It shows OFF on the display panel.
- 3. In this status, all Loads are off (Compressor / Fan / Damper / Heater)

 (Even is Demonstration Mode, the refrigerator Lamp automatic off function warks normally and can be demonstrated)
- 4. Exit the test mode and reset the display by pressing any warmer button during 3 second.

7-2 PCB FUNCTION

7-2-1 Power Circuit



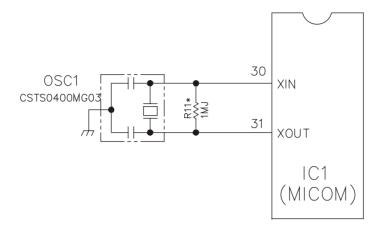
The secondary part of the TRANSFORMER is composed of the power supply for the display, the BLDC FAN Motor drive (15.5 V), the relay drive (12 Vdc) and the MICOM and IC (5 Vdc).

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

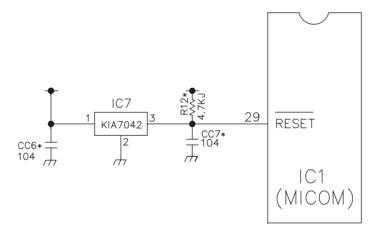
VA1 is a part for preventing over voltage and noise. When 385V or higher power is applied, the inside elements are short-circuited and broken, resulting in blowout of the fuse in order to protect the elements of the secondary part of the TRANSFORMER.

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.

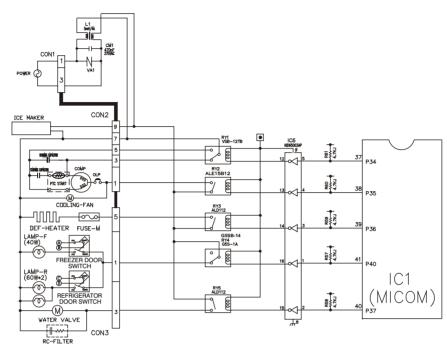
7-2-3 Reset Circuit



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

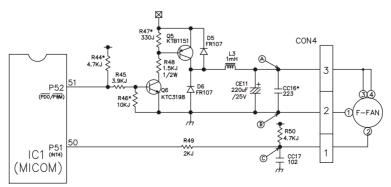


LOAD T	YPE	COMP	DEFROSTING HEATER	LAMP	TCM POWER MODE (OPTIONAL)	VALVE (DISPENSER MDL)
Measurement Location (IC6)		NO.13	NO.13 NO.14 NO.16		NO.12	NO.15
Condition	ON	1V or below				
Condition	OFF	12V				

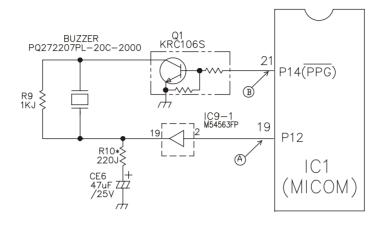
2. Fan motor driving circuit (freezing compartment fan)

- 1. 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.
- 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	© part
MOTOR OFF	2V or less	0V	5V
MOTOR ON	13V~15V	0V	2V~3V

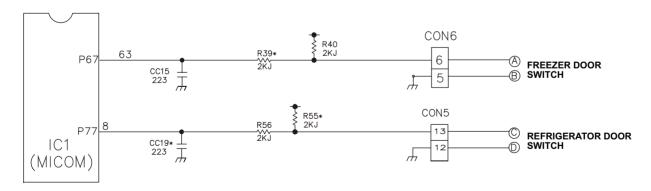


3. Buzzer Drive Condition Check



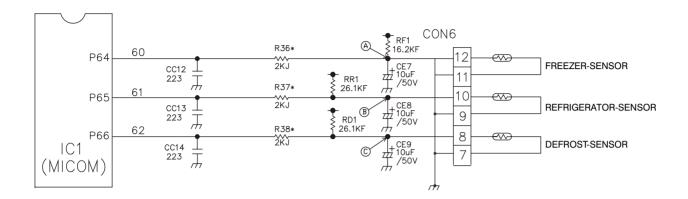
Condition Measure- ment Location	Tone (Ding~Dong~) when the button on the display is pushed.	Alarm for open door (beep-beep-beep)	OFF
IC1 ((A)	5 V 0.05 s 0.2 s 0.1 s 2 s	0.5 s 0.5 s 0.7 s	0 V
IC1 (B)	5 V 0 V2.63 kz(Ding~)2.21 kz(Dong~)	5 V 0 V — 2.63 kz(Beep~) OFF	0 V

4. Open Door Detection Circuit Check



Measurement Freezer/ Location Refrigerator Door	(PIN NO.63 & PIN NO.8)
Closed	5 V
Open	0 V

7-2-5 Temperature Sensor Circuit

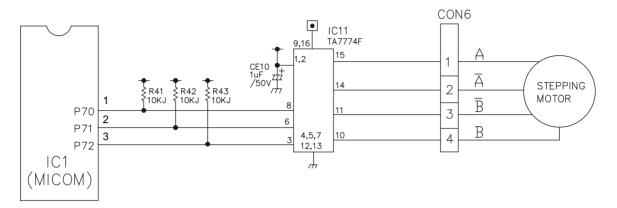


The upper CIRCUIT reads REFRIGERATOR temperature, FREEZER Temperature, and DEFROST-SENSOR temperature for defrosting and the indoor temperature for compensating for the surrounding temperature into MICOM. OPENING or SHORT state of each TEMPERATURE SENSOR are as follows:

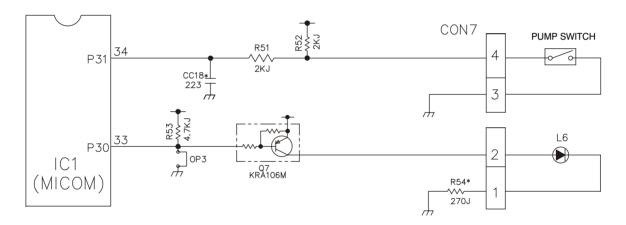
SENSOR	CHECK POINT	NORMAL (-30°C ~ 50°C)	SHORT-CIRCUITED	OPEN
Freezer Sensor	POINT (A) Voltage			
Refrigerator Sensor	POINT B Voltage	0.5 V ~ 4.5 V	0 V	5 V
Defrosting Sensor	POINT © Voltage			

7-2-6 Refrigeration Compartment Stepping Motor Damper Circuit

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

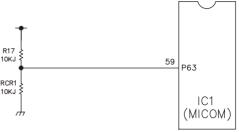


7-2-7 Dispenser Input/LED Output Circuit



7-2-8 Temperature Compensation & Overcooling/Undercooling Compensation Circuit

1. Refrigerator Temperature Compensation



Refri				
Resistance	Resistance Temperature			
(RCR)	Compensation			
180 K	+2.5°C	Compensation by		
56 K	+2.0°C	raising the temperature		
33 K	+1.5°C			
18 K	+1.0°C	1 1		
12 K	+0.5°C			
10 K	0℃	Standard Temperature		
8.2 K	-0.5°C	Compensation by		
5.6 K	-1.0°C	lowering the temperature		
3.3 K	-1.5℃			
2 K	-2.0°C] J		
470	-2.5℃	V		

☐ 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 33.8iF(+1iC).

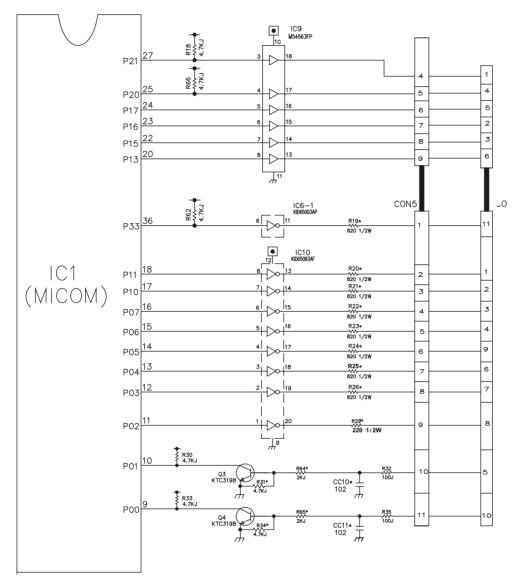
2. The temperature compensation for refrigerator compartment is in the following table:

	Revised resistance Present resistance	470	2k	3.3k	5.6k	8.2k	10k	12k	18k	33k	56k	180k
	470	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
	2k	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
	3.3k	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
	5.6k	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
	8.2k	2°C Down	1.5°C Down	1°C Down	0.5° Down	No Change	0.5°C Up	1°C Up	1.5°C Up	2°C Up	2.5°C Up	3°C Up
Refrigerator (RCR)	10k	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
	12k	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
	18k	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
	33k	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
	56k	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
	180k	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.

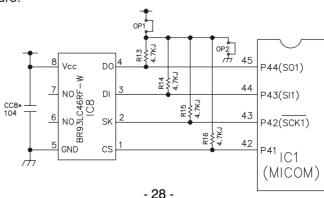
7-2-9 Key Button Input & Display Light-On Circuit

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



7-2-10 EEPROM CIRCUIT (DISPENSER MODEL)

The purpuse of this circuit is to save the current temperature control and the water filter operation time to avord losing it in case of power failure.



7-3 RESISTANCE SPECIFIC ATION OF SENSOR

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

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.

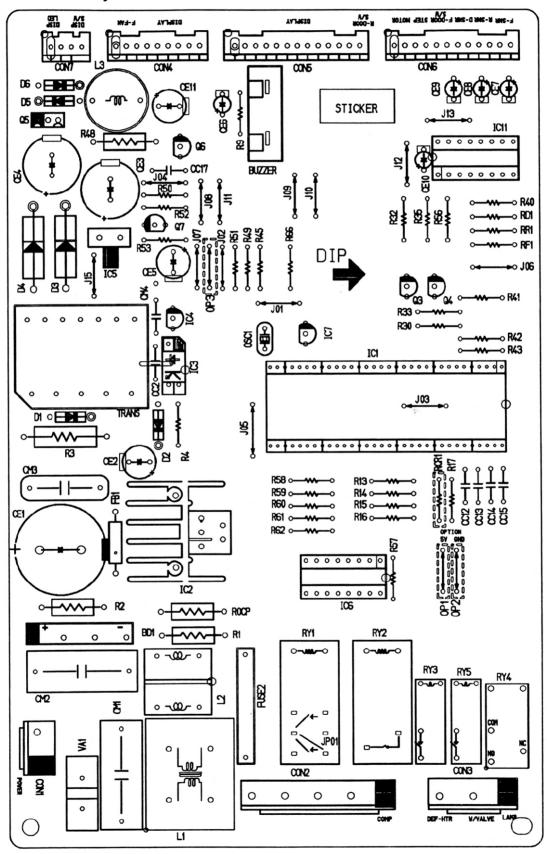
This delay is necessary due to sensor response speed.

					COOLING is poor.		POWER SOURCE is poor.	PROBLEM
			TEMPERATURE is incorrect		NO COOLING.	2. DISPLAY LED/ SEVEN SEGMENT DISPLAY operates abnormally	1. The whole DISPLAY LED/SEVEN SEGMENT DISPLAY is off.	INDICATED BY
4. Door Line contact.	3. If SENSOR is normal.	2. If DEFROSTING is normal.	operates.	2. If refrigerant is leaking.	1. If the COMPRESSOR operate.	2. If LAMP is dim. 3. The connection of the MAIN PWB CONNECTOR.	1. FREEZER/ REFRIGERATOR.	CHECK
Check the seal when the door is closed.	Check the resistance of the Refrigerator SENSOR.	Check the amount of frost sticking on the VAPORATOR.	(forced COOLING).	sticking on EVAPORATOR and the surface temperature of the condenser pipe.	USE TEST MODE1 (forced COOLING). If less than 7 minutes pass after compressor shuts off, donôt press the KEY and wait.	Check visually. Check connection of CONNECTOR.	Check if FREEZER/ REFRIGERATOR DOOR IS OPEN and check display.	CHECKING METHOD
Door liner damaged.	SENSOR RESISTANCE is poor.	DEFROSTING is poor.	CONNECTING WIRE is poor.		COMPRESSOR locked or blocked. OLP, PTC is poor. COMPRESSOR RELAY is poor. THE CONNECTING WIRE is poor.	Applied voltage error. CONNECTOR connection is poor. TRANS FUSE is open.	POWER SOURCE is poor.	CAUSE
Replace door liner.	Replace SENSOR.	See DEFROSTING is poor.	Certify the MOTOR and the connection of the black wire of the MAIN PWB CONNECTOR (CON2).	replace the leaking part and replace any lost refrigerant.	Replace COMPRESSOR. Replace OLP, PTC. Replace MAIN PWB. Check the connection of the black wire of the MAIN PWB CONNECTOR (CON2).	Use boosting TRANS. Reconnect CONNECTOR. Replace TRANS.	Check outlet Voltage.	SOLUTION

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

7-5 MAIN PWB ASSEMBLY AND PARTS LIST

7-5-1 Main PWB Assembly



7-5-2 Replacement Parts List

la la an	PECODIDATION	corro	ww.ep	Private Control of the Control of th
No P/N0 I 6870JB8087 D	DESCRIPTION PWB (PCB)	SPEC KS-PJT BEST	MAKER DOO SAN	REMARK
2 6170JB2012A	TRANSFORMER, SMPSI COIL 1	KS-PJT 220-240V	SAM IL	TRANS
3 6170JB2012B 4 6630A09106A	TRANSFORMER, SMPSI COIL 1 CONNECTOR (CIRC), WAFER	KS-PJT 100-127V YW396-03AV	YEON HO	TRANS CONI
5 6630A09I06D	CONNECTOR (CIRC), WAFER	YW396 YEONHO 9P 3.96MM AV	YEON HO	CON2
6 6630A09I06B 7 6630.IB8007H	CONNECTOR (CIRC), WAFER CONNECTOR (CIRC), WAFER	YW396 YEONHO 5P 3.96MM AV	YEON HO	CON3
7 6630JB8007H 8 6630JB80I0A	CONNECTOR (CIRC), WAFER	917787-1 AMP 9P 2.5MM STRAIGHT SN 917791-1 AMP 13PIN 2.5MM STRAIGHT SN	AMP	CON4 CON5
9 6630JB8007L	CONNECTOR (CIRC), WAFER	1917790-1 AMP 12P 2.5AM STRAIGHT SN	AMP	CON6
10 6630JB8007C 11 0ISK655100A	CONNECTOR (CIRC), WAFER IC, SANKEN	917782-1 AMP 4P 2.5MM STRAIGHT SN STR-6551 5PIN BK SMPS 2,4PIN FORM	SANKEN	CON7
12 01ZZJB20240	IC,DRAWING	TMP87CK40AN 64PIN, SDIP BK KS-PJTI MASK I	TOSHIBA	ICI (: 0IZZJB2024R)
13 -	- IC TOCUIDA	TI D72IE AD DV DUOTO COLDI ED	- TOCUIDA	-
14 <u>OIPMGNEOOIA</u> 15 <u>OIKE431000A</u>	IC,TOSHIBA IC,KEC	TLP72IF 4P BK PHOTO COUPLER KIA43I 3 PIN TP	TOSHIBA KEC	IC3 IC4
16 OIKE780500W	IC.KEC	KIA7805PI	KEC	IC5
17 OIKE650830B 18 OIKE650030B	IC, KEC	KID65083AF 2050P LED DRIVER	KEC KEC	ICIO ICE
19 OISTLMIOOIA	IC,KEC IC,STANDARD LOGIC	KID65003AP I6P SDIP BK DRIVE M64563FP 20 R/TP CONVERT	MITSUBISH	IC9
20 OIKE704200A 21 OIT0777400A	IC.KEC IC.TOSHIBA	KIA7042P 3P BK RESET -	KEC TOSHIBA	IC7
22 OIRH934600D	IC_ROHM RELAY	TA777AP (6, 50)P BK DRIVE, IC STEPPING M BR93LC46FF - W 6PIN SOP BK EEPROM - ALEI'5812 MATSUS-HTA 12V (6A 15, 6V 1A	ROHM	CI IC8 RY2
23 692000000IA	RELAY RELAY	ALEISBIZ MATSUSHITA IZV I6A IS.6V IA	NAIS NAIS	RY2
24 6920ALZ00IA 25 6920JB2009B	RELAY	ALZIZBIZ NAIS 250VAC IGA IZVDC IC NO VENTING	OMRON	RY4
26 6920JB2007A	RELAY	G558-14 Z50VAC 5A IZVDC IC VSB-12TB TAKAMISAWA DCIZV 60MA Z50V IC	FUJITSU	RYI
27 6920A90002A	RELAY	ALDIIZ NAISITHAILANDI 250V- 3A IZV 16.6mA IA	NAIS	RY3 RY5
28 6212JB800IB	RESONATOR, CERAMIC	CSTS0400MG03 MURATA 4MHZ TP	MURATA	OSCI
29 6102JB8003A 30 6102JB8001B	VARISTOR VARISTOR	INRI4D271 ILJIN UL/VDE TP 270V	ILJIN	VAI
31 ODRIO7009AA	DIODE , RECTIFIERS	INRI4D621 ILJIN UL/VDE BK 620V FRIO7 TP DELTA D041 1000V IA 3	DELTA	DI,D2,D5,D6
32 ODRSA00070A	DIODE, RECTIFIERS	RL2 SANKEN BK NON 400V 2A 40A 50NSEC IOUA	SANKEN	D3,D4
33 <u>ODB360000AA</u> 34 <u>6I02W5V006A</u>	DIODE, RECTIFIERS VARISTOR	D3SBA60 BK SHINDENGEN 600V 4A INRI4D33IK ILJIN UL/CSA/VDE BK	SHINDENGEN ILJIN	BDI VAI
35 OCE476ZV6E0	CAPACITOR, FIXED ELECTROLYTIC	INRI4D33IK ILJIN UL/CSA/VDE BK 47UF HE 450V 20% BULK SNAP IN(105°)	SAM WHA	CEI
36 OCE476BK638 37 OCEI076H638	CAPACITOR, FIXED ELECTROLYTIC CAPACITOR, FIXED ELECTROLYTIC	47UF KME TYPE 50V 20% FM5 TP 5 (105°) 100UF SMS,SG 25V 20% FM5 TP 5	SAM WHA	CE2 CE12
38 OCE687YH6E0	CAPACITOR, FIXED ELECTROLYTIC	6800F RX 25V 20% BULK SNAP IN(105°)	SAM WHA	CE3
39 OCE687YJ6I8 40 OCE227BF638	CAPACITOR, FIXED ELECTROLYTIC CAPACITOR, FIXED ELECTROLYTIC	680UF RX 35V 0.2 TP 5 FL(105°) 220UF KME TYPE 16V 20% FM5 TP 5(105°)	SAM WHA	CE4
4I 0CE227BH638	CAPACITOR, FIXED ELECTROLYTIC	220UF RG TYPE 25V 20% FM5 TP 5(105°)	SAM WHA	CEII
42 OCE105BK638	CAPACITOR, FIXED ELECTROLYTIC	IUF KME TYPE 50V 20% FM5 TP 5(105°)	SAM WHA	Œ10
44 OCEI06EK63B	CAPACITOR, FIXED ELECTROLYTIC CAPACITOR, FIXED ELECTROLYTIC	47UF KME TYPE 25V 20% FM5 TP 5(105°) 10UF KMG 50V 20% FM5 TP 5(105°)	SAM WHA	CE6 CE7-CE9
45 0CHI47IK562	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	10UF KMG 50V 20% FM5 TP 5(105°) 470PF 50V K X7R(X) 1608 R/TP	MURATA	CCI
46 OCK22IORGIA	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	250PF D 250V 10% -10% B(Y5P) R/TP	SAM WHA	CC2 CC3-CC7
47 OCK104DK94A	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	100NF 2012 50V R/TP (GRM40X7RIO4K50PE)	MURATA	CCB
48 OCKIO20K5I9 49 OCK223DK96A	CAPACITOR, FIXED CERAMIC(HIGH DIELECTRIC) CAPACITOR, FIXED CERAMIC(HIGH DIELECTRIC)	1000PF 50V K B TA52 22NF 2012 50V 80%, -20% R/TP X/R	MURATA	CC17
49 OCK223DK96A 50 OCK2230K949	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	22NF 50V Z F TA52	MURATA MURATA	CCI6,CCI8,CCI9 CCI2-CCI5
5I OCKIO2DK96A	CAPACITOR, FIXED CERAMIC (HIGH DIELECTRIC)	INF 2012 50V 80%, -20% R/TP X7R	MURATA	CCIO
52 OCO47418670	CAPACITOR, FIXED CERAMIC FRIGH DIELECTRIC	0.47UF D 275V M M/PP NI R	PILKOR	CCII CMI, CM2
53 0CF22408670	CAPACITOR, FIXED FILM	220NF 0 275V 20% BULK M/PP NI	PILKOR	
54 0C04732Y430 55 0C0224IN630	CAPACITOR, FIXED FILM CAPACITOR, FIXED FILM	47000PF S 630V J M/PE NI R 0.22UF D 100V M M/PE NI R	SAM WHA	CM3
56 0CQ223IN409	CAPACITOR, TAED TIEM CAPACITOR, POLYESTER	0.022JF D 100V J/PE TP 220 0+M 1/2 W 5/, 2012 R/TP	SAM WHA	CM5
57 ORJ2200H672	RESISTOR, METAL GLAZED (CHIP)	220 OHM I/2 W 5% 2012 R/TP	SMART,CHOHYANG SMART,CHOHYANG	R29
58 ORSI503J609 59 ORS8202609	RESISTOR, FIXED METAL OXIDE FILM RESISTOR, FIXED METAL OXIDE FILM	150K OHM IW 5.00% TA52 82K OHM IW 5.00% TA52	SMART, CHOHYANG	RI RI
60 ORS0101J609	RESISTOR, FIXED METAL OXIDE FILM	I OHM I W 5.00% TA52	SMART, CHOHYANG	ROCP
6I ORS0470J609 62 ORS5602K64I	RESISTOR, FIXED METAL OXIDE FILM RESISTOR, FIXED METAL OXIDE FILM	0.47 OHM I W 5% TA52 56K OHM 2 W 5.00% TA52	SMART, CHOHYANG SMART, CHOHYANG	ROCP R3
63 ORJB200H672	RESISTOR, METAL GLAZED (CHIP)	820 OHM 1/2 W 5% 2012 R/TP	SMART, CHOHYANG SMART, CHOHYANG	RI9-R26
64 ORD5603H609	RESISTOR, FIXED CARBON FILM	560K OHM 1/2 W 5.00% TA52		R2 R48
	RESISTOR, FIXED CARBON FILM	1.5K OHM 1/2 W 5.00% TA52 100 OHM 1/4 W 5.00% TA52	SMART,CHOHYANG SMART,CHOHYANG	R32
Gr.E.Ficcocccs	RESISTOR, FIXED CARBON FILM			R35
67 ORH2200L622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1/8 W 2012 5.00% D	ROHM	RIO RI2,R44,R3I,RIB
68 ORH470IL622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM I/8 W 2012 5.00% D	ROHM	R34
69 ORHI002L622 70 ORJ0332E672	RESISTOR,METAL GLAZEDICHIP) RESISTOR,FIXED CARBON FILM	IOK OHM I/8 W 2012 5.00% D 33 OHM I/8 W 5% 2012 R/TP	ROHM ROHM	R46
71 ORDI00IG609	RESISTOR, FIXED CARBON FILM	IK OHM I/4 W 5.00% TA52	SMART, CHOHYANG	R9
72 ORHI00IL622	RESISTOR, METAL GLAZED (CHIP)	IK OHM I/8 W 2012 5.00% D	ROHM	P8
73 ORH2001L622	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1/8 W 2012 5.00% D	ROHM	R65,R64, R36-R39 R65
74 ORD2001G609	RESISTOR, FIXED CARBON FILM	2K OHM I/4 W 5.00% TA52	SMART, CHOHYANG	R40,R49,R51,R52,R56
75 ORH3300L622 76 ORHI004L622	RESISTOR METAL GLAZED (CHIP) RESISTOR METAL GLAZED (CHIP)	330 OHM 1/8 W 2012 5.00% D	ROHM ROHM	RII
77 ORNI622G409	RESISTOR, FIXED CARBON FILM	16.2K OHM I/4 W 1.00% TA52	SMART, CHOHYANG	RFI
78 ORN26I2G409 79 ORD390IG609	RESISTOR, FIXED CARBON FILM RESISTOR, FIXED CARBON FILM	26.IK OHM I/4 W 1.00% TA52 3.9K OHM I/4 W 5.00% TA52	SMART, CHOHYANG SMART, CHOHYANG	RDI,RRI R45
80 ORD470IG609	RESISTOR, FIXED CARBON FILM	4.7K OHM I/4 W 5.00% TA52	SMART, CHOHYANG	R4, R30, R33, R50, R57-R62, R66
8I ORJ6800E672	RESISTOR, FIXED CARBON FILM RESISTOR, METAL GLAZED (CHIP)		ROHM	Ri3-Ri6,R53
82 ORDI002G609	RESISTOR, FIXED CARBON FILM	680 OHM I/8 W 5%, 2012 R/TP IOK OHM I/4 W 5.00% TA52	SMART, CHOHYANG	RI7,RCRI,R4I-R43
83 ORHIBOIL622 84 ORD2702G609	RESISTOR, METAL GLAZED (CHIP) RESISTOR, FIXED CARBON FILM	I.8K OHM I/8 W 2012 5.00% D 27K OHM I/4 W 5.00% TA52	ROHM	R7
es 0RD4702G609	RESISTOR, FIXED CARBON FILM	47K OHM I/4 W 5.00% TA52	SMART,CHOHYANG SMART,CHOHYANG	-
96 ORJ9101E472	RESISTOR FIXED METAL FILM	9. IK OHM I/8 W I% 2012 R/TP	ROHM	RLI
88 ORJ2700E672	RESISTOR, FIXED METAL FILM RESISTOR, METAL GLAZED (CHIP)	2.4K OHM I/8 W I% 2012 R/TP 270 OHM I/8 W 2012 5.00% D	ROHM ROHM	RL2 R54
89 OTRKEOOOOBA	TRANSISTOR, BIPOLAR	KEC K I BI I SI BK I OI 26 60V 5A	KEC	05
90 OTR3I9809AA	TRANSISTOR	KTC3I98-TP-Y (KTCI8I5)KEC	KEC	03,06
9I OTRKE800I6A	TRANSISTOR, BIPOLAR	KEC KRC106S R/TP S0T23 50V 100MA	KEC	OI .
92 <u>OTRIO6009AC</u> 93 -	TRANSISTOR, BIPOLAR TRANSISTOR, BIPOLAR	KRA 106M KEC KTC3875 KEC	KEC	07
94 6210JB800IA	FILTER(CIRC) ,EMC	BES3510A0 SAMMHA 52 - JTP1280A6 JEIL 12V DC 50MA	SAM WHA	FBI
95 6600RRT00IZ 96 6854B5000IA	FILTER (CIRC) , EMC SWITCH, TACT JUMP WIRE	JTPI280A6 JEIL IZV DC 50MA 0.6MM 52MM TP TAPING SNITOMNI	JEIL DAE A LEAD	SWI JOI-J04,J06-JI3,JI4,JP0I
97 685485000IA	JUMP WIRE	0.6MM 52MM TP TAPING SN(12.5MM)	DAE A LEAD	J05
98 6854B5000IA 99 6854B5000IA	JUMP WIRE	O.6MM 52MM TP TAPING SNITOMNI O.6MM 52MM TP TAPING SNITOMNI	DAE A LEAD DAE A LEAD	0PI 0P2,0P3,RI3-RI6
99 6854B5000IA 100 6200JB8004A	FILTER(CIRC), EMC	CV940050 TNC BK	TNC	LI
101 6200JB8007X	FILTER(CIRC),EMC	UVII-05320 TNC BK 0.5A 32MH	TNC	L2
102 OLRIOOIM4F0 103 OFM900IB62I	INDUCTOR, RADIAL LEAD FUSE, FAST BLOW	1000UH 20% R 6XI2.5 BULK 9000MA 250V 6.3X3I.8 CY/GL KS	TNC SAM JU	L3 FUSEI
104 6901JB8001A	FUSE ASSEMBLY	KORE-PJT N/S	SAM JU	FUSE HOLDER
105 OFZZJB3001A 106 6908JB3002F	FUSE, DRAWING	2A 250V SLOW-BLOW LITTLE FUSE, TRIAD GBEZZOBP DAE YOUNG PIEZO 244Z 750B(OHINA)	SAM JU DAE YOUNG	FUSE1 BUZZER
107 4920JB3007A	BUZZER HEAT SINK	23,3+17+25 DRIVE IC STR		IC2)
108 ISBF0302418	SCREW TAP TITE(S),BINDING HE SOLDER(ROSIN WIRE) RSO	+D3.0 L8.0 MSWR3/FZY	행성사	(IC2)
109 9VWF0I20000 110 49111004	SOLDER, SOLDERING	DI.20 H63A	HISUNG	-
III 59333105 II2 0C01031N509	FLUX CAPACITOR, FIXED FILM	SG;0.825-0.830 KOREA F.H-206	KOKI	i cui
	I COL MOLITURAL I MEDI I ILM	0.01UF D 100V 10% PE TP5	SAM WHA	CM4

7-5-3 PWB Assembly Display and Parts List

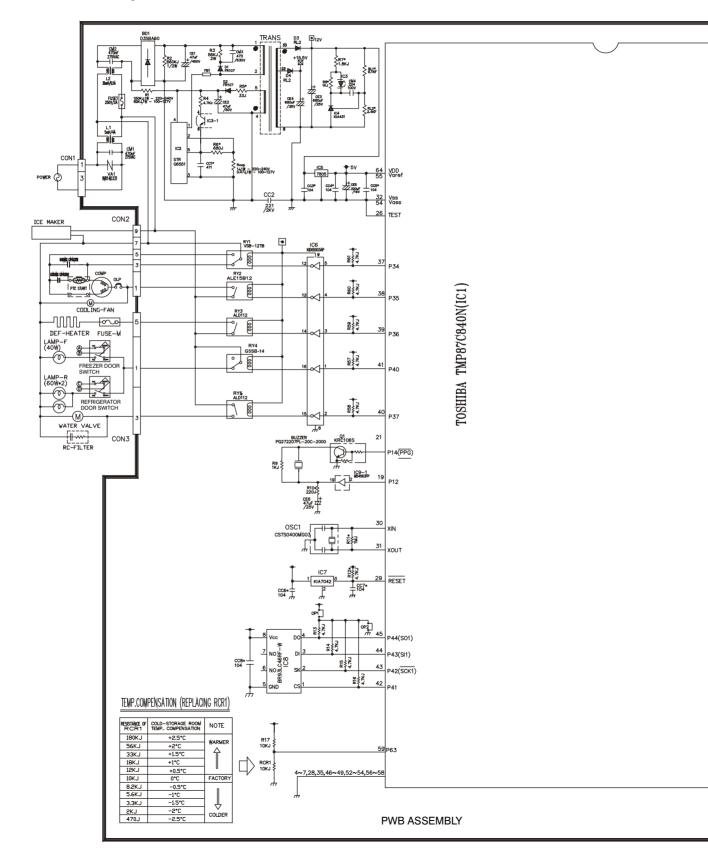
Best Model

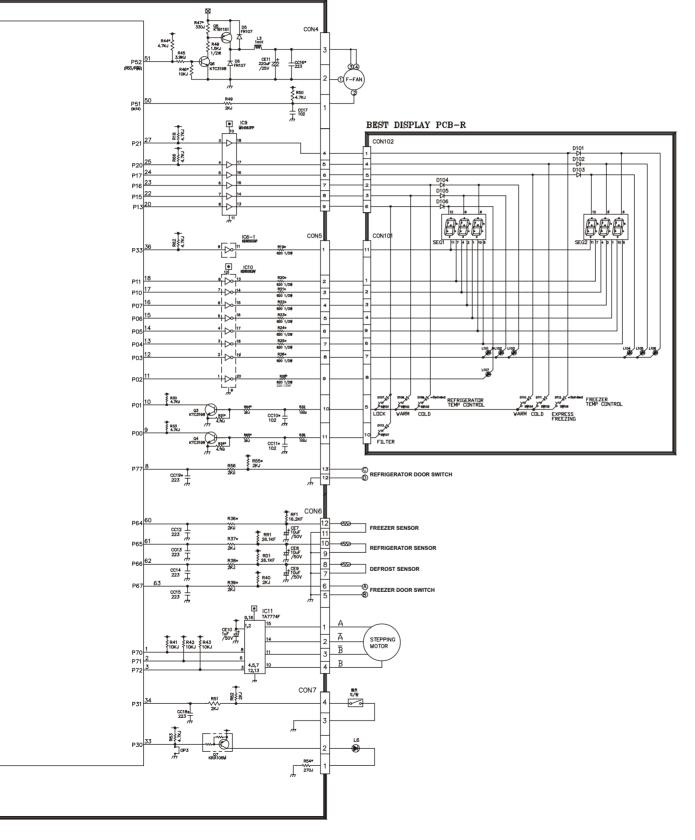


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No	P/NO	DESCRIPTION	SPEC	MAKER	REMARK
1	6870JB8090A	PWB(PCB)	KS-PJT DISPENSER DISPLAY	DOO SAN	-
2	-	-	-		-
3	6630JB8005D	WAFER	SMAW250-11	YEON HO	CDN101
4	6630JB8004U	1	SMAW250-06		C0N102
5	6600JB8005A	SWITCH,TACT	KPT-1105A	KYUNG IN	SW102~105
6	6600RRT002K		JTP1230A JEIL 12V DC 50MA	JEIL	2 M 105 102
7	6600JB8004A	TACT S/W	KPT-1109R	KYUNG IN	SW106
8	-	TACT S/W		KYUNG IN	
9	6327JB8001A	DISPLAY LED ASSEMBLY	LN4023-13EWRS GREEN 2.1V 1.7MCD	LEDTECH	SEG1,SEG2
10	ODLLE0059AA	LED	LT8323-41-BCN 2.1V D3 TP GREEN		L102~105
11	ODD414809AA	DIODE,SWITCHING	1N4148 26MM	PYUNG CHANG	D107~113
12	0DD400400A		1N4004	DELTA	D101~106
13	6854B50001A	JUMP WIRE	0.6MM 52MM TP TAPING SN(10MM)	-	J01~06,J08~13
14	9VWF0120000	SOLDER(ROSIN WIRE) RSO	D1.20	HEE SUNG	-
15	49111004	SOLDER,SOLDERING	H63A	-	-
16	59333105	FLUX	SG;0.825-0.830 KOREA F.H-206	KUKI	-

7-6 PWB DIAGRAM

7-6-1 PWB Main Assembly

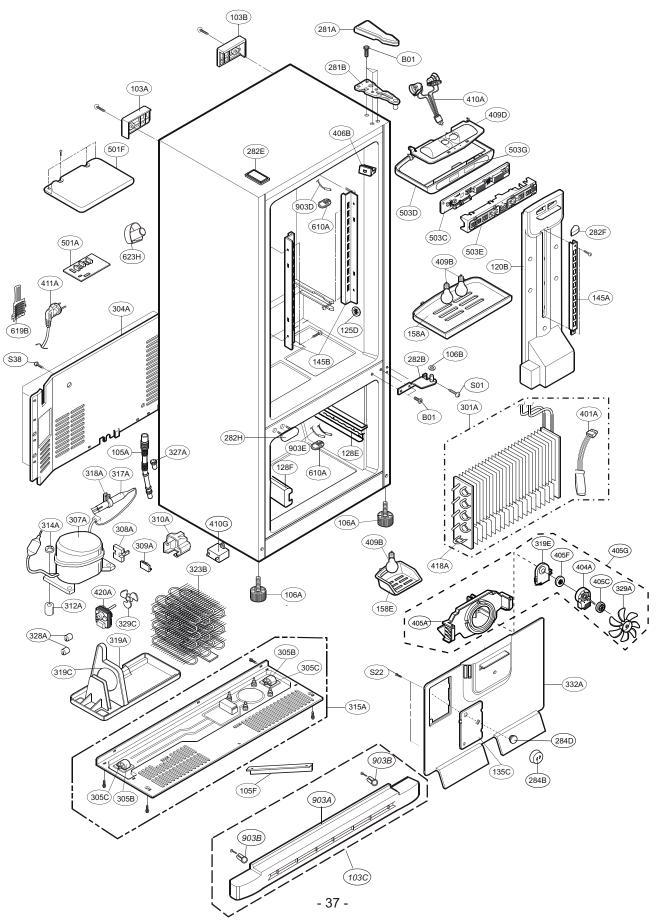




EXPLODED VIEW

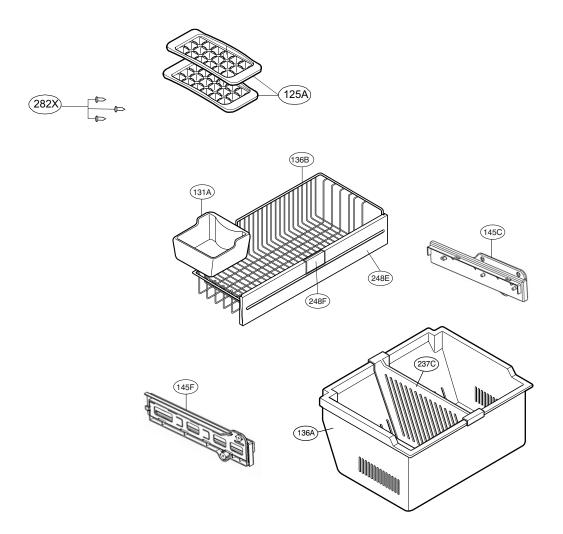
CASE PARTS

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



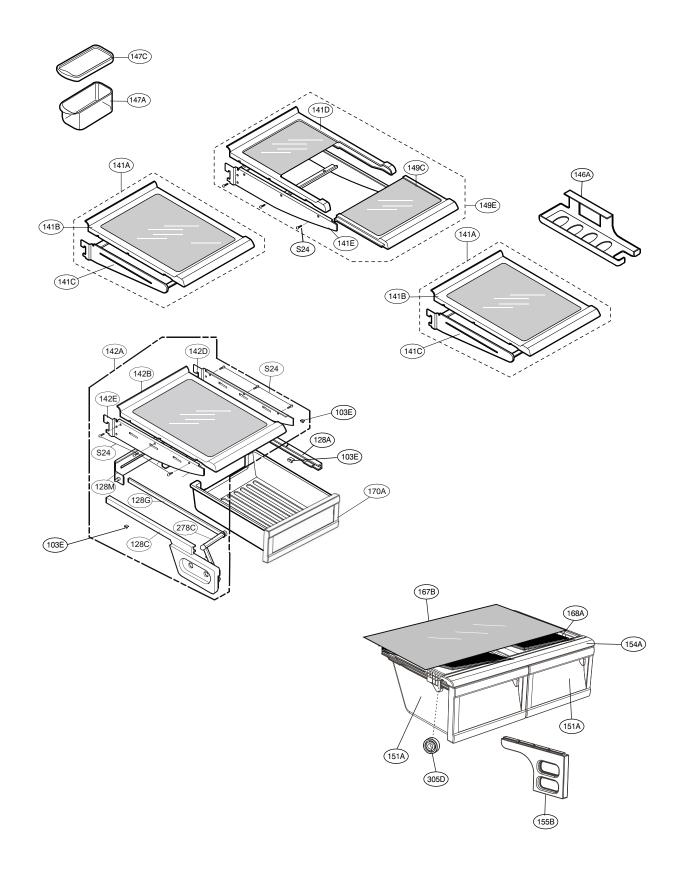
FREEZER PARTS

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

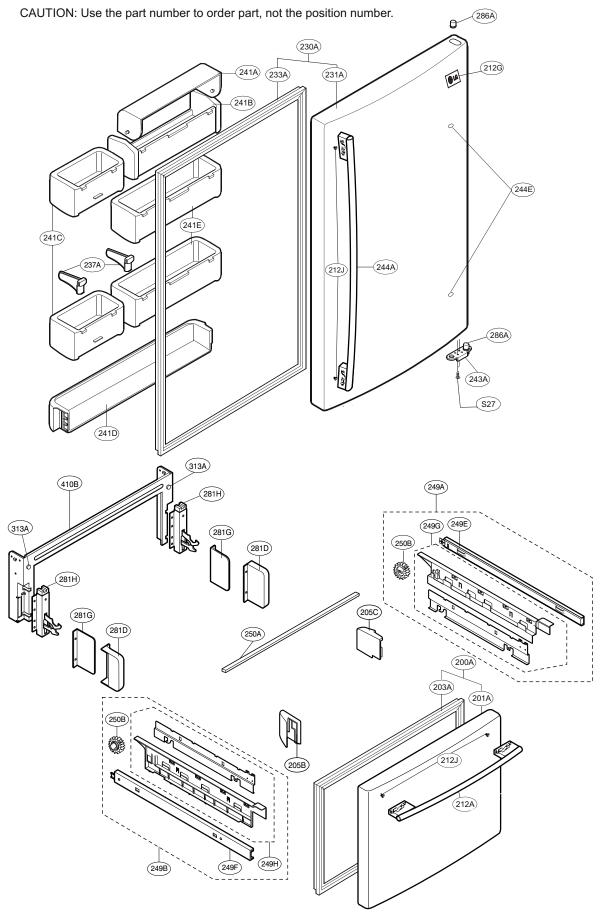


REFRIGERATOR PARTS

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



DOOR PARTS



LDN22735SW

		LDN2273	5SW		
Loc No.	PartNo.	Description	Loc No.	PartNo.	Description
103A	3650JJ2003E	HANDLE,REAR	103A	3650JJ2003M	HANDLE,REAR
103B	3650JJ2003A	HANDLE,REAR	103B	3650JJ2003L	HANDLE,REAR
103C	3551JJ1015B	COVER ASSEMBLY,LOWER	103C	3551JJ1015F	COVER ASSEMBLY,LOWER
103E	5218JJ3001A	Rail,Slide	103E	5218JJ3001A	Rail,Slide
105A	5251JA3003B	TUBE ASSEMBLY,DRAIN	250B	4403JJ3001A	CONNECTOR ASSEMBLY
105F	5070JJ3002A	Skirt,Lower	278C	4510JJ2003A	LEVER,SHUTTER
					•
106A	4779JA2003A	LEG ASSEMBLY,ADJUST	281A	3550JJ2013A	COVER,HINGE
106B	4J00382C	WASHER,COMMON	281B	4775JJ2003B	HINGE ASSEMBLY,UPPER
120B	5209JJ1002A	DUCT ASSEMBLY, MULTI	281D	3550JJ2043A	COVER,HINGE
125A	3390JJ1023A	TRAY,ICE	281G	3550JJ2044A	COVER,HINGE
125D	4930JJ3007A	HOLDER,BRACKET	281H	4775JJ2011A	HINGE ASSEMBLY,LOWER
128A	4975JJ2002A	GUIDE ASSEMBLY, RAIL	282B	4775JJ8002A	HINGE ASSEMBLY, CENTER
128C	4975JJ2003D	GUIDE ASSEMBLY,RAIL	282E	5006JJ2001A	CAP,HINGE
128E	4930JJ1025A	HOLDER,RAIL	282F	3806JL2006F	Decor, Duct
128F	4930JJ1025B	HOLDER,RAIL	282H	5006JJ3004A	CAP,HINGE
128G	4520JJ2001A	LINK	282X	5006JJ3010A	CAP,HANDLE
128M	4974JJ2011A	GUIDE,AIR	284B	3550JA3120A	COVER, CONNECTOR
131A			284E		
	5074JJ1055A	BUCKET,ICE		3550JJ3001A	Cover, Tube
135C	3550JJ2030A	COVER,GRILLE FAN	286A	4984JJ3003A	BUSH
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	286A	4984JJ3003A	BUSH
136B	3390JJ1090A	Tray,Drawer	301A	5421JJ1001B	EVAPORATOR ASSEMBLY
141A	5027JJ1014P	SHELF ASSEMBLY,REFRIGERATOR	304A	3551JJ2008B	COVER ASSEMBLY, MACHINERY (REAR)
141B	5027JJ1038A	SHELF ASSEMBLY, REFRIGERATOR	305B	4580JJ3001A	Roller
		·			
141C	5027JJ2005C	SHELF ASSEMBLY,NET	305B	4580JJ3001A	Roller
141D	5027JJ2011B	SHELF ASSEMBLY, REFRIGERATOR	305C	4J04238A	Pin,Common
141E	5027JJ2005D	SHELF ASSEMBLY,NET	305C	4J04238A	Pin,Common
142A	5027JJ1013J	Shelf Assembly,Refrigerator	305D	4580JA3042A	Roller
142B	5027JJ1039A	SHELF ASSEMBLY, REFRIGERATOR	307A	2521JJ8004A	Compressor,Set Assembly
142D	5026JJ2001L	Shelf,Net	308A	6748JJ8002A	THERMISTOR,PTC
142E	5026JJ2001M	Shelf,Net	309A	6750JJ8002A	Overload Protect
145A	4930JJ2003A	Holder, Shelf	310A	3550JJ8003A	COVER,PTC
145B	4930JJ2004A	Holder,Shelf	312A	5040JA3031A	DAMPER,COMPRESSOR
145C	4975JJ2028C	GUIDE ASSEMBLY,RAIL	313A	5040JJ3007A	DAMPER,COMPRESSOR
145F	4975JJ2028D	GUIDE ASSEMBLY, RAIL	314A	4620JA3009A	STOPPER,COMPRESSOR
146A	5047JJ1001A	CASE,LOWER	315A	3103JJ1001J	BASE ASSEMBLY,COMPRESSOR
147A	5074JJ1005A	BUCKET, DAIRY	317A	5851JJ2002B	DRIER ASSEMBLY
147C	3550JJ1017A	COVER,BUCKET	318A	4930JJ3002A	HOLDER, DRIER
149C	5027JJ2010B	SHELF ASSEMBLY,REFRIGERATOR	319A	3390JJ0003A	TRAY,DRIP
149E	5027JJ2009B	SHELF ASSEMBLY, REFRIGERATOR	319C	4974JJ1009A	Guide,Fan
151A	3391JJ1038A	TRAY ASSEMBLY, VEGETABLE	319E	4810JJ2005A	BRACKET,MOTOR
154A	3550JJ1108A	COVER,TV	323B	5403JJ1007A	CONDENSER ASSEMBLY,WIRE
155B	4980JJ1016A	SUPPORTER,COVER TV	327A	5006JA3034A	CAP, DRAIN TUBE
		,			
158A	3550JJ1040A	COVER,LAMP	328A	4J03020A	DAMPER,PIPE
158E	3550JJ1051A	COVER,LAMP	329A	5901JJ1005A	FAN ASSEMBLY
167B	4890JL1002H	SHELF,GLASS	329C	5901JJ1004B	FAN ASSEMBLY
168A	3550JJ1035A	COVER,MAGIC ROOM	332A	3531JJ1004A	GRILLE ASSEMBLY,FAN
170A	3391JJ2018A	TRAY ASSEMBLY, MEAT	401A	6615JB2005C	CONTROLLER ASSEMBLY, CIRCUIT
200A	3581JJ8715A	DOOR ASSEMBLY,FREEZER	404A	4681JK1004A	AC Motor
201A	5433JJ0058V	DOOR FOAM ASSEMBLY,FREEZER	405A	4811JJ2002A	BRACKET ASSEMBLY,MOTOR
203A	4987JJ1004A	GASKET ASSEMBLY, DOOR	405C	5040JA2009B	DAMPER,MOTOR SUPPORT
205B	5006JJ2014A	CAP,COVER	405F	5040JA2004B	DAMPER,MOTOR SUPPORT
205C	5006JJ2014B	CAP,COVER	405G	4811JJ2002H	BRACKET ASSEMBLY,MOTOR
212A	3651JA1033K	HANDLE ASSEMBLY, FREEZER	406B	6600JB1004A	SWITCH, PUSH BUTTON
212G	3846JD1007B	NAME PLATE	409B	6912JK2002C	LAMP,INCANDESCENT
212J	4620JJ3007A	Stopper,Handle	409D	3034JJ1002B	REFLECTOR,LAMP
230A	3581JJ8716A	DOOR ASSEMBLY, REFRIGERATOR	410A	6621JK2002D	DRAWING, ASSEMBLY
					· · · · · · · · · · · · · · · · · · ·
231A	5433JJ0019X	DOOR FOAM ASSEMBLY,REFRIGERATOR	410B	4811JJ2004F	Bracket Assembly,Door
233A	4987JJ1004B	GASKET ASSEMBLY,DOOR	410G	0CZZJK2001A	Capacitor,Film,Box
237A	4974JJ2012A	GUIDE,PITCHER	411A	6411JK1006A	Power Cord Assembly
					· · · · · · · · · · · · · · · · · · ·
237C	4974JJ1021A	GUIDE,DRAWER	418A	5300JB1100J	HEATER,SHEATH
241A	3550JL2003H	COVER,TRAY	420A	4680JK1001B	Motor,Unclassified
241B	5004JJ1021A	BASKET,DOOR	501A	6871JB1213B	PCB ASSEMBLY, MAIN
241C	5005JJ2017A	BASKET ASSEMBLY,DOOR	501F	3550JJ1042B	Cover,PCB
241D	5005JJ2020A	BASKET ASSEMBLY, DOOR	503C	6871JB2046B	PCB ASSEMBLY, DISPLAY
241E	5005JJ2018A	BASKET ASSEMBLY,DOOR	503D	3110JJ1005A	CASE, DISPLAY
243A	4620JJ3006A	Stopper,Door	503E	3550JJ2032A	COVER, DISPLAY
244A	3651JA1023X	HANDLE ASSEMBLY,FREEZER	503G	3806JL1035B	DECOR,CONTROL
244E	5006JJ3016A	CAP,HANDLE	610A	3550JJ2020A	COVER,SENSOR
248E	3806JJ1048A	Decor,Tray	619B	3550JJ2024A	COVER, VALVE
248F	3806JL2011A	DECOR,TRAY	623H	3550JJ2036A	Cover, Tube
249A	5098JJ2002V	CONNECTOR ASSEMBLY	903A	3550JJ0006A	Cover,Lower
249B	5098JJ2002U	CONNECTOR ASSEMBLY	903B	4930JJ2021A	HOLDER,COVER(LOWER)
249E	5218JA1010E	Rail,Slide	903D	6500JK1003A	SENSOR
249F	5218JA1010F	Rail,Slide	903E	6500JK1004A	Sensor
249G	5098JJ2005B	CONNECTOR ASSEMBLY	B01	1STZJA3004F	SCREW,CUSTOMZIED
249H	5098JJ2005A	CONNECTOR ASSEMBLY	S01	1SZZJJ3010A	SCREW,CUSTOMZIED
250A	4270JJ3001E	Bar	S22	3J05696C	SCREW,CUSTOMZIED
	· · -				
			S24	1SZZJA3011B	SCREW, CUSTOMZIED
			S27	4J01424C	SCREW,CUSTOMZIED
			S38	4J00415D	SCREW,CUSTOMZIED
					· · = · · , · · = · · · · · · · · · · · · · ·

		LDN2273	35SB		
Loc No.	PartNo.	Description	Loc No.	PartNo.	Description
103A		·			Bar
	3650JJ2003M	HANDLE,REAR	250A	4270JJ3001E	
103B	3650JJ2003L	HANDLE,REAR	250B	4403JJ3001A	CONNECTOR ASSEMBLY
103C	3551JJ1015F	COVER ASSEMBLY,LOWER	278C	4510JJ2003A	LEVER,SHUTTER
103E	5218JJ3001A	Rail,Slide	281A	3550JJ2013C	COVER,HINGE
		•			
105A	5251JA3003B	TUBE ASSEMBLY,DRAIN	281B	4775JJ2003B	HINGE ASSEMBLY,UPPER
105F	5070JJ3002A	Skirt,Lower	281D	3550JJ2043A	COVER,HINGE
106A	4779JA2003A	LEG ASSEMBLY,ADJUST	281G	3550JJ2044A	COVER,HINGE
106B	4J00382C	WASHER,COMMON	281H	4775JJ2011A	HINGE ASSEMBLY,LOWER
120B	5209JJ1002A	DUCT ASSEMBLY,MULTI	282B	4775JJ8002C	HINGE ASSEMBLY,CENTER
125A	3390JJ1023A	TRAY,ICE	282E	5006JJ2001F	CAP,HINGE
125D	4930JJ3007A	HOLDER,BRACKET	282F	3806JL2006F	Decor, Duct
128A	4975JJ2002A	GUIDE ASSEMBLY,RAIL	282H	5006JJ3004E	CAP,HINGE
128C	4975JJ2003D	GUIDE ASSEMBLY,RAIL	282X	5006JJ3010A	CAP,HANDLE
128E	4930JJ1025A	HOLDER,RAIL	284B	3550JA3120A	COVER,CONNECTOR
128F	4930JJ1025B	HOLDER,RAIL	284E	3550JJ3001A	Cover, Tube
128G	4520JJ2001A	LINK	286A	4984JJ3003A	BUSH
128M	4974JJ2011A	GUIDE,AIR	286A	4984JJ3003A	BUSH
131A	5074JJ1055A	BUCKET,ICE	301A	5421JJ1001B	EVAPORATOR ASSEMBLY
135C	3550JJ2030A	COVER,GRILLE FAN	304A	3551JJ2008B	COVER ASSEMBLY, MACHINERY (REAR)
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	305B	4580JJ3001A	Roller
136B	3390JJ1090A	Tray,Drawer	305B	4580JJ3001A	Roller
141A	5027JJ1014P	SHELF ASSEMBLY, REFRIGERATOR	305C	4J04238A	Pin,Common
141B		SHELF ASSEMBLY, REFRIGERATOR	305C	4J04238A	Pin,Common
	5027JJ1038A				
141C	5027JJ2005C	SHELF ASSEMBLY,NET	305D	4580JA3042A	Roller
141D	5027JJ2011B	SHELF ASSEMBLY,REFRIGERATOR	307A	2521JJ8004A	Compressor,Set Assembly
141E	5027JJ2005D	SHELF ASSEMBLY,NET	308A	6748JJ8002A	THERMISTOR,PTC
142A	5027JJ1013J	Shelf Assembly,Refrigerator	309A	6750JJ8002A	Overload Protect
142B	5027JJ1039A	SHELF ASSEMBLY,REFRIGERATOR	310A	3550JJ8003A	COVER,PTC
142D	5026JJ2001L	Shelf,Net	312A	5040JA3031A	DAMPER,COMPRESSOR
142E	5026JJ2001M	Shelf,Net	313A	5040JJ3007A	DAMPER,COMPRESSOR
145A	4930JJ2003A	Holder,Shelf	314A	4620JA3009A	STOPPER,COMPRESSOR
145B	4930JJ2004A	Holder,Shelf	315A	3103JJ1001J	BASE ASSEMBLY,COMPRESSOR
145C	4975JJ2028C	GUIDE ASSEMBLY,RAIL	317A	5851JJ2002B	DRIER ASSEMBLY
145F	4975JJ2028D	GUIDE ASSEMBLY,RAIL	318A	4930JJ3002A	HOLDER,DRIER
146A	5047JJ1001A	CASE,LOWER	319A	3390JJ0003A	TRAY,DRIP
147A	5074JJ1005A	BUCKET,DAIRY	319C	4974JJ1009A	Guide,Fan
147C	3550JJ1017A	COVER,BUCKET	319E	4810JJ2005A	BRACKET,MOTOR
149C	5027JJ2010B	SHELF ASSEMBLY, REFRIGERATOR	323B	5403JJ1007A	CONDENSER ASSEMBLY, WIRE
149E	5027JJ2009B	SHELF ASSEMBLY, REFRIGERATOR	327A	5006JA3034A	CAP,DRAIN TUBE
151A	3391JJ1038A	TRAY ASSEMBLY, VEGETABLE	328A	4J03020A	DAMPER,PIPE
154A	3550JJ1108A	COVER,TV	329A	5901JJ1005A	FAN ASSEMBLY
155B	4980JJ1016A	SUPPORTER,COVER TV	329C	5901JJ1004B	FAN ASSEMBLY
158A	3550JJ1040A	COVER,LAMP	332A	3531JJ1004A	GRILLE ASSEMBLY,FAN
158E	3550JJ1051A	COVER,LAMP	401A	6615JB2005C	CONTROLLER ASSEMBLY, CIRCUIT
167B	4890JL1002H	SHELF,GLASS	404A	4681JK1004A	AC Motor
		•			
168A	3550JJ1035A	COVER,MAGIC ROOM	405A	4811JJ2002A	BRACKET ASSEMBLY, MOTOR
170A	3391JJ2018A	TRAY ASSEMBLY,MEAT	405C	5040JA2009B	DAMPER,MOTOR SUPPORT
200A	3581JJ8715B	DOOR ASSEMBLY,FREEZER	405F	5040JA2004B	DAMPER,MOTOR SUPPORT
201A	5433JJ0058R	DOOR FOAM ASSEMBLY, FREEZER	405G	4811JJ2002H	BRACKET ASSEMBLY, MOTOR
203A	4987JJ1004E	GASKET ASSEMBLY,DOOR	406B	6600JB1004A	SWITCH, PUSH BUTTON
205B	5006JJ2014A	CAP,COVER	409B	6912JK2002C	LAMP,INCANDESCENT
205C	5006JJ2014B	CAP,COVER	409D	3034JJ1002B	REFLECTOR,LAMP
212A	3651JA1033M	HANDLE ASSEMBLY,FREEZER	410A	6621JK2002D	DRAWING, ASSEMBLY
212G	3846JD1007D	NAME PLATE	410B	4811JJ2004F	Bracket Assembly,Door
212J	4620JJ3007A	Stopper,Handle	410G	0CZZJK2001A	Capacitor,Film,Box
230A	3581JJ8716B	DOOR ASSEMBLY, REFRIGERATOR	411A	6411JK1006A	Power Cord Assembly
231A	5433JJ0019Y	DOOR FOAM ASSEMBLY, REFRIGERATOR	418A	5300JB1100J	HEATER,SHEATH
233A	4987JJ1004F	GASKET ASSEMBLY,DOOR	420A	4680JK1001B	Motor, Unclassified
237A	4974JJ2012A	GUIDE,PITCHER	501A	6871JB1213B	PCB ASSEMBLY,MAIN
237C	4974JJ1021A	GUIDE, DRAWER	501F	3550JJ1042B	Cover,PCB
241A	3550JL2003H	COVER,TRAY	503C	6871JB2046B	PCB ASSEMBLY, DISPLAY
241B	5004JJ1021A	BASKET,DOOR	503D	3110JJ1005A	CASE,DISPLAY
241C	5005JJ2017A	BASKET ASSEMBLY,DOOR	503E	3550JJ2032A	COVER,DISPLAY
241D	5005JJ2020A	BASKET ASSEMBLY, DOOR	503G	3806JL1035B	DECOR,CONTROL
241E	5005JJ2018A	BASKET ASSEMBLY,DOOR	610A	3550JJ2020A	COVER,SENSOR
243A	4620JJ3006C	Stopper,Door	619B	3550JJ2024A	COVER,VALVE
244A	3651JA1023V	HANDLE ASSEMBLY,FREEZER	623H	3550JJ2036A	Cover,Tube
244E	5006JJ3016C	CAP,HANDLE	903A	3550JJ0006C	Cover,Lower
248E	3806JJ1048A	Decor,Tray	903B	4930JJ2021A	HOLDER,COVER(LOWER)
248F	3806JL2011A	DECOR,TRAY	903D	6500JK1003A	SENSOR
249A	5098JJ2002V	CONNECTOR ASSEMBLY	903E	6500JK1004A	Sensor
249B	5098JJ2002U	CONNECTOR ASSEMBLY	B01	1STZJA3004F	SCREW,CUSTOMZIED
249E		Rail,Slide		1SZZJJ3010A	
	5218JA1010E		S01		SCREW, CUSTOMZIED
249F	5218JA1010F	Rail,Slide	S22	3J05696C	SCREW,CUSTOMZIED
249G	5098JJ2005B	CONNECTOR ASSEMBLY	S24	1SZZJA3011B	SCREW,CUSTOMZIED
249H	5098JJ2005A	CONNECTOR ASSEMBLY	S27	4J01424C	SCREW,CUSTOMZIED
			S38	4J00415D	SCREW,CUSTOMZIED
			•	+000+10D	JULIU , JULIU I JIVIZIED
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LDN22735ST

		LDN22	735ST		
Loc No.	PartNo.	Description	Loc No.	PartNo.	Description
103A	3650JJ2003M	HANDLE,REAR	250A	4270JJ3001E	Bar
103B	3650JJ2003L	HANDLE,REAR	250B	4403JJ3001A	CONNECTOR ASSEMBLY
103C	3551JJ1015F	COVER ASSEMBLY,LOWER	278C	4510JJ2003A	LEVER,SHUTTER
103E	5218JJ3001A	Rail, Slide	281A	3550JJ2013C	COVER,HINGE
105A	5251JA3003B	TUBE ASSEMBLY, DRAIN	281B	4775JJ2003B	HINGE ASSEMBLY,UPPER
105F	5070JJ3002A	Skirt,Lower	281D	3550JJ2043A	COVER,HINGE
106A	4779JA2003A	LEG ASSEMBLY,ADJUST	281G	3550JJ2044A	COVER,HINGE
106B	4J00382C	WASHER, COMMON	281H	4775JJ2011A	HINGE ASSEMBLY,LOWER
120B	5209JJ1002A	DUCT ASSEMBLY, MULTI	282B	4775JJ8002C	HINGE ASSEMBLY,CENTER
125A			282E		
	3390JJ1023A	TRAY,ICE		5006JJ2001F	CAP,HINGE
125D	4930JJ3007A	HOLDER, BRACKET	282F	3806JL2006F	Decor,Duct
128A	4975JJ2002A	GUIDE ASSEMBLY, RAIL	282H	5006JJ3004E	CAP,HINGE
128C	4975JJ2003D	GUIDE ASSEMBLY,RAIL	282X	5006JJ3010A	CAP,HANDLE
128E	4930JJ1025A	HOLDER,RAIL	284B	3550JA3120A	COVER,CONNECTOR
128F	4930JJ1025B	HOLDER,RAIL	284E	3550JJ3001A	Cover, Tube
128G	4520JJ2001A	LINK	286A	4984JJ3003A	BUSH
128M	4974JJ2011A	GUIDE,AIR	286A	4984JJ3003A	BUSH
131A	5074JJ1055A	BUCKET,ICE	301A	5421JJ1001B	EVAPORATOR ASSEMBLY
135C	3550JJ2030A	COVER,GRILLE FAN	304A	3551JJ2008B	COVER ASSEMBLY, MACHINERY (REAR)
136A	3391JJ1011B	TRAY ASSEMBLY, DRAWER	305B	4580JJ3001A	Roller
136B	3390JJ1090A	Tray,Drawer	305B	4580JJ3001A	Roller
141A	5027JJ1014P	SHELF ASSEMBLY, REFRIGERATOR	305C	4J04238A	Pin,Common
141B	5027JJ1038A	SHELF ASSEMBLY, REFRIGERATOR	305C	4J04238A	Pin,Common
141C	5027JJ2005C	SHELF ASSEMBLY,NET	305D	4580JA3042A	Roller
141D	5027JJ2011B	SHELF ASSEMBLY, REFRIGERATOR	307A	2521JJ8004A	Compressor, Set Assembly
141E	5027JJ2005D	SHELF ASSEMBLY,NET	308A	6748JJ8002A	THERMISTOR,PTC
142A	5027JJ1013J	Shelf Assembly, Refrigerator	309A	6750JJ8002A	Overload Protect
142B	5027JJ1039A	SHELF ASSEMBLY, REFRIGERATOR	310A	3550JJ8003A	COVER,PTC
142D	5026JJ2001L	Shelf,Net	312A	5040JA3031A	DAMPER,COMPRESSOR
142E	5026JJ2001M	Shelf,Net	313A	5040JJ3007A	DAMPER,COMPRESSOR
145A					
	4930JJ2003A	Holder, Shelf	314A	4620JA3009A	STOPPER,COMPRESSOR
145B	4930JJ2004A	Holder, Shelf	315A	3103JJ1001J	BASE ASSEMBLY, COMPRESSOR
145C	4975JJ2028C	GUIDE ASSEMBLY, RAIL	317A	5851JJ2002B	DRIER ASSEMBLY
145F	4975JJ2028D	GUIDE ASSEMBLY,RAIL	318A	4930JJ3002A	HOLDER, DRIER
146A	5047JJ1001A	CASE,LOWER	319A	3390JJ0003A	TRAY,DRIP
147A	5074JJ1005A	BUCKET, DAIRY	319C	4974JJ1009A	Guide,Fan
147C	3550JJ1017A	COVER,BUCKET	319E	4810JJ2005A	BRACKET,MOTOR
149C	5027JJ2010B	SHELF ASSEMBLY, REFRIGERATOR	323B	5403JJ1007A	CONDENSER ASSEMBLY, WIRE
149E	5027JJ2009B	SHELF ASSEMBLY, REFRIGERATOR	327A	5006JA3034A	CAP,DRAIN TUBE
151A	3391JJ1038A	TRAY ASSEMBLY, VEGETABLE	328A	4J03020A	DAMPER,PIPE
154A	3550JJ1108A	COVER,TV	329A	5901JJ1005A	FAN ASSEMBLY
155B	4980JJ1016A	SUPPORTER,COVER TV	329C	5901JJ1004B	FAN ASSEMBLY
158A	3550JJ1040A	COVER,LAMP	332A	3531JJ1004A	GRILLE ASSEMBLY,FAN
158E	3550JJ1051A	COVER,LAMP	401A	6615JB2005C	CONTROLLER ASSEMBLY, CIRCUIT
167B	4890JL1002H	SHELF,GLASS	404A	4681JK1004A	AC Motor
168A	3550JJ1035A	COVER, MAGIC ROOM	405A	4811JJ2002A	BRACKET ASSEMBLY, MOTOR
170A	3391JJ2018A	TRAY ASSEMBLY, MEAT	405C	5040JA2009B	DAMPER,MOTOR SUPPORT
200A	3581JJ8715C	DOOR ASSEMBLY,FREEZER	405F	5040JA2004B	DAMPER,MOTOR SUPPORT
201A	5433JJ0058M	DOOR FOAM ASSEMBLY,FREEZER	405G	4811JJ2002H	BRACKET ASSEMBLY,MOTOR
203A	4987JJ1004E	GASKET ASSEMBLY,DOOR	406B	6600JB1004A	SWITCH, PUSH BUTTON
205B	5006JJ2014A	CAP,COVER	409B	6912JK2002C	LAMP,INCANDESCENT
205C	5006JJ2014B	CAP,COVER	409D	3034JJ1002B	REFLECTOR, LAMP
212A					DRAWING,ASSEMBLY
	3651JA1033J	HANDLE ASSEMBLY, FREEZER	410A	6621JK2002D 4811JJ2004F	•
212G	3846JD1007E	NAME PLATE	410B		Bracket Assembly,Door
212J	4620JJ3007A	Stopper, Handle	410G	0CZZJK2001A	Capacitor, Film, Box
230A	3581JJ8716C	DOOR ASSEMBLY, REFRIGERATOR	411A	6411JK1006A	Power Cord Assembly
231A	5433JJ0019Z	DOOR FOAM ASSEMBLY, REFRIGERATOR	418A	5300JB1100J	HEATER,SHEATH
233A	4987JJ1004F	GASKET ASSEMBLY,DOOR	420A	4680JK1001B	Motor,Unclassified
237A	4974JJ2012A	GUIDE,PITCHER	501A	6871JB1213B	PCB ASSEMBLY,MAIN
237C	4974JJ1021A	GUIDE,DRAWER	501F	3550JJ1042B	Cover,PCB
241A	3550JL2003H	COVER,TRAY	503C	6871JB2046B	PCB ASSEMBLY, DISPLAY
241B	5004JJ1021A	BASKET,DOOR	503D	3110JJ1005A	CASE,DISPLAY
241C	5005JJ2017A	BASKET ASSEMBLY,DOOR	503E	3550JJ2032A	COVER, DISPLAY
241D	5005JJ2020A	BASKET ASSEMBLY,DOOR	503G	3806JL1035B	DECOR,CONTROL
241E	5005JJ2018A	BASKET ASSEMBLY, DOOR	610A	3550JJ2020A	COVER,SENSOR
243A	4620JJ3006C	Stopper,Door	619B	3550JJ2024A	COVER, VALVE
244A	3651JA1023U	HANDLE ASSEMBLY,FREEZER	623H	3550JJ2036A	Cover, Tube
244E	5006JJ3016D	CAP,HANDLE	903A	3550JJ0006C	Cover,Lower
248E	3806JJ1048A	Decor,Tray	903B	4930JJ2021A	HOLDER,COVER(LOWER)
248F	3806JL2011A	DECOR,TRAY	903D	6500JK1003A	SENSOR
249A	5098JJ2002V	CONNECTOR ASSEMBLY	903E	6500JK1004A	Sensor
249A 249B	5098JJ2002V	CONNECTOR ASSEMBLY	B01	1STZJA3004F	SCREW,CUSTOMZIED
249E	5218JA1010E	Rail, Slide	S01	1SZZJJ3010A	SCREW, CUSTOMZIED
249F	5218JA1010F	Rail, Slide	S22	3J05696C	SCREW CUSTOMZIED
249G	5098JJ2005B	CONNECTOR ASSEMBLY	S24	1SZZJA3011B	SCREW, CUSTOMZIED
249H	5098JJ2005A	CONNECTOR ASSEMBLY	S27	4J01424C	SCREW,CUSTOMZIED
			S38	4J00415D	SCREW,CUSTOMZIED
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