SAMSUNG

REFRIGERATOR

BASIC : RF265AB, RF266AB

MODEL NAME :	RF265ABRS	RF266ABRS
	RF265ABBP	RF266ABBP
	RF265ABWP	RF266ABWP
	RF265ABPN	RF266ABPN
MODEL CODE :	RF265ABRS/XAA	RF266ABRS/XAA
	RF265ABBP/XAA	RF266ABBP/XAA
	RF265ABWP/XAA	RF266ABWP/XAA
	RF265ABPN/XAA	RF266ABPN/XAA

SERVICE Manual

REFRIGERATOR

RF265/266 AB

CONTENTS

For the latest parts information, Please access to our service web site
(● North America : http://service.samsungportal.com)

Contents

1. PRECAUTIONS(SAFETY WARNINGS)

- Before servicing the refrigerator or replacing parts, unplug the unit from the wall outlet.

→ Shock Hazard, observe basic safety rules.

- Be sure to use the specified generic parts when servicing the product.

→ Confirm the Model Number on Product itself.
Inspect the mew part and assembly for Voltage, Current and temperature specifications.

- During the Diagnostic and Troubleshooting phase it is recommended to do a visual inspection of all the connections of the wiring harness to the PCB ASSY.

- Check the traces of water infiltration at the electric parts.

→ If there is a trace of water infiltration it is necessary for you to replace the insulation tape or harness.

- Check the assemble status of parts after troubleshooting.

→ It should be done indiscriminately as before the repair.

- Check the use circumstance of refrigerator.

→ If the refrigerator is installed at the place that is damp or wet, or status of installation is unstable, change the installation place.

- Do earth in case of need.

→ Particularly, Be sure to earth when there is a risk of an electric leakage by humidity or wetness.

- Do not use multi plugs in a plug socket at the same time.
Check if the power cord and socket is damaged, pressed, squeezed, or fired.

→ If the plug or plug socket is damaged, repair or exchange that immediately.

- Do not repair the refrigerator by user himself.

- Do not store other materials except the foods.

→ Drugs or scientific materials : difficult to keep precise temperature.

→ The inflammables(alcohol, benzene, ether, LP gas, butane gas etc.): have risk of explosion.

PRECAUTIONS(SAFETY WARNINGS)

Read all instructions before repairing the product and follow the instructions in order to prevent danger or property damage.

CAUTION/WARNING SYMBOLS DISPLAYED

Warning	*Indicates that a danger of death or serious injury exists.*
Caution	*Indicates that a risk of personal injury or material damage exists.*

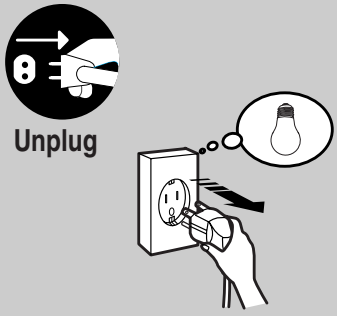
SYMBOLS

means "Prohibition".
means "Do not disassemble".
means "No contact".
means "The things to be followed".
means "Power cord should be unplugged from the consent"
means "Earth to prevent Electric shock".

Warning & Caution

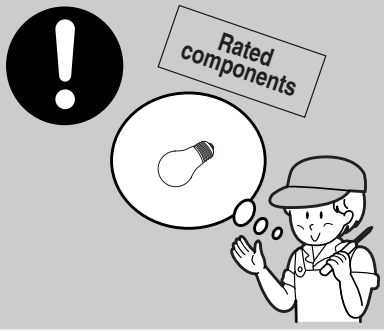
Pull the power plug out to exchange the interior lamp of the refrigerator.

- *It may cause electric shock.*



Use the rated components on the replacement.

- *Check the correct model, rated voltage, rated current, operating temperature and so on.*



On repair, make sure that the wires such as harness are bundled tightly.

- *Bundle tightly wires in order not to be detached by the external force and then not to be wetted.*

On repair, remove completely dust or other things of housing parts, harness parts, and check parts.

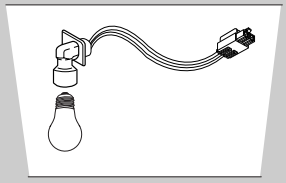
- *Cleaning may prevent the possible fire by tracking or short.*

After repair, check the assembled state of components.

- *It must be in the same assembled state when compared with the state before disassembly.*

Check if there is any trace indicating the permeation of water.

- *If there is that kind of trace, change the related components or do the necessary treatment such as taping using the insulating tape.*



PRECAUTIONS(SAFETY WARNINGS)

✻ Please let users know following warnings & cautions in detail.

Warning & Caution

Do not allow users to put bottles or kinds of glass in the freezer.

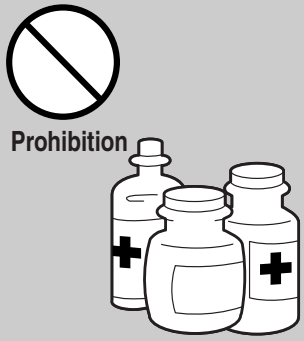
- *Freezing of the contents may inflict a wound.*

Do not allow users to store narrow and lengthy bottles or foods in a small multi-purpose room.

- *It may hurt you when refrigerator door is opened and closed resulting in falling stuff down.*

Do not allow users to store pharmaceutical products, scientific materials, etc., in the refrigerator.

- *The products which temperature control should not be stored in the refrigerator.*



Do not allow users to insert the power plugs for many products at the same time.

- *May cause abnormal generation of heat or fire.*

Do not allow users to disassemble, repair or alter.

- *It may cause fire or abnormal operation which leads to injury.*

Do not allow users to bend the power cord with excessive force or do not have the power cord pressed by heavy article.

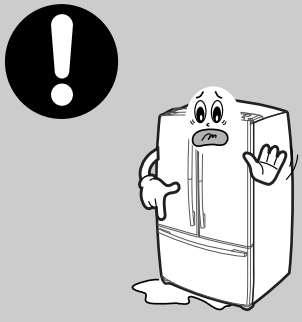
- *May cause fire.*

Do not allow users to store articles on the product.

- *Opening or closing the door may cause things to fall down, with may inflict a wound.*

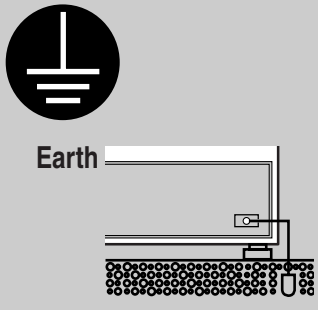
Do not allow users to install the refrigerator in the wet place or the place where water splashes.

- *Deterioration of insulation of electric parts may cause electric shock or fire.*



Make sure of the earth.

- *If earthing is not done, it will cause breakdown and electric shock.*

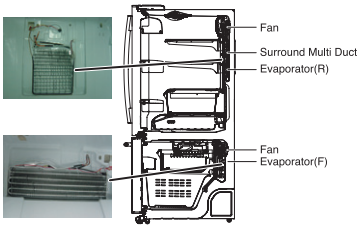


2. PRODUCT SPECIFICATIONS

2. PRODUCT SPECIFICATIONS

2-1) Introduction of main function

● **A newly Developed SAMSUNG bottom mount freezer in 2008 has the following characteristics.**

	**Surround Multi Flow** • Uniform cooling for each shelf and even in corner in fresh food compartment by centerpositioned fan and duct with multiple flow effluences
	**Twin Cooling System** • The refrigerator and the freezer have two evaporators. Given this independent system, the freezer and the refrigerator are cooled individually as required and are, therefore, more efficient. Food odor from the refrigerator does not affect food in the freezer due to separate air flow circulation.
	**Electronic control from outside of Pantry Cover** • Adjustable temperature control (around 34℉(1℃) Chilled / around 38℉(3℃) : Fresh) Temperature control from outside of the Pantry : user friendly design helps keep foods fresh for longer
	**Easy Handle System** • Ez-open Freezer Door • Ergonomic Door Design
	**One Touch Water Dispenser (Internal)** • One Hand Water Dispenser
	**Secure Auto Close Door System** • Secure Auto Close Door System • Cool tight doors • Energy saving • Preventing sweat on fridge doors

PRODUCT SPECIFICATIONS

2-2) Specifications

ELECTRICAL SPECIFICATIONS

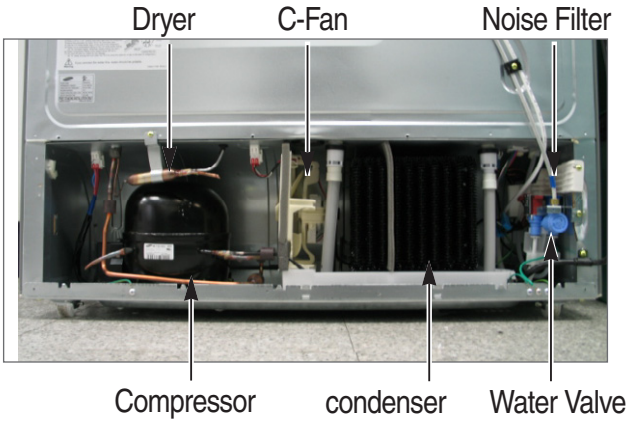
Defrost Control ..... From 24 to 32 hrs
Thermo Bimetal Protector ..... 140°F(60℃)(off) 104°F(40℃)(on)
Defrost Thermistor(502AT) ..... 50°F(10℃)(off)
Electrical Rating ..... AC115V 60Hz 11.6 Amps/220V~240V 50Hz
Maximum Current Leakage ..... 0.25 mA
Maximum Ground Path Resistance ..... 0.1 Ohm
Energy Consumption ..... 470 KWh/mo.

NO LOAD PERFORMANCE

Ambient Temperature	70°F(21℃)	90°F(32℃)
Refrigerator,°F	34°F(1℃)~46°F(8℃)	34°F(1℃)~46°F(8℃)
Freezer,°F	-14°F(-26℃)~8°F(-13℃)	-14°F(-26℃)~8°F(-13℃)
Run Time,%	<40	<60

REFRIGERATION SYSTEM

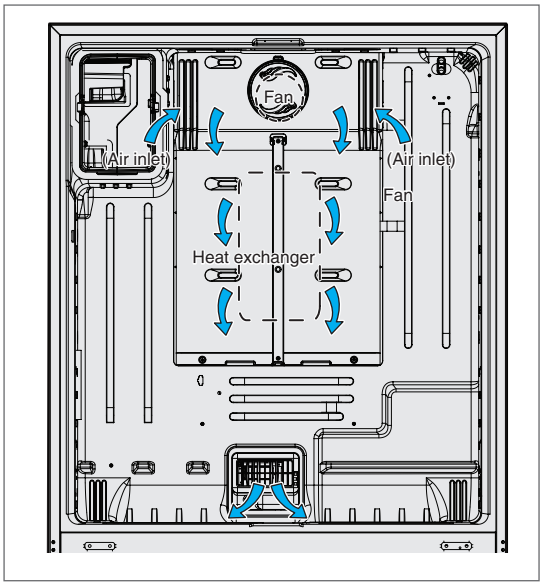
Refrigerant Charge (R134a) ..... 5.64 oz(160g)
Compressor((MK172D-R2U) ..... 897 Btu/hr(0.263kw)
Compressor oil ..... Freol α -10
Capillary tube(Dia, Length) ..... 0.032 " ,118 " (0.81mm, 2997mm)
Dryer ..... Molecular Sieve XH-9



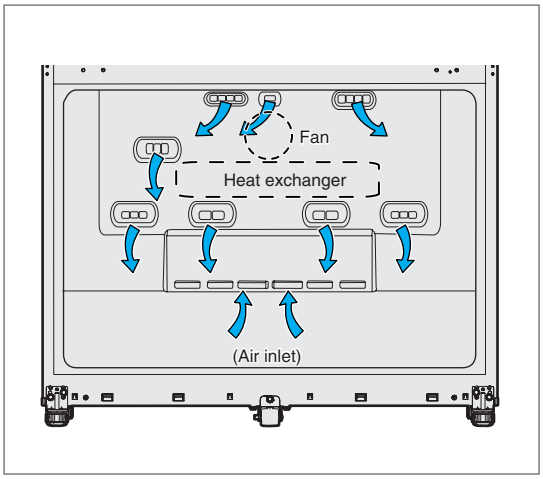
INSTALLATION

Clearance must be provided for air circulation
AT TOP ..... 1 " (25mm)
AT SIDES ..... 0.5 " (15mm)
AT REAR ..... 1 " (25mm)

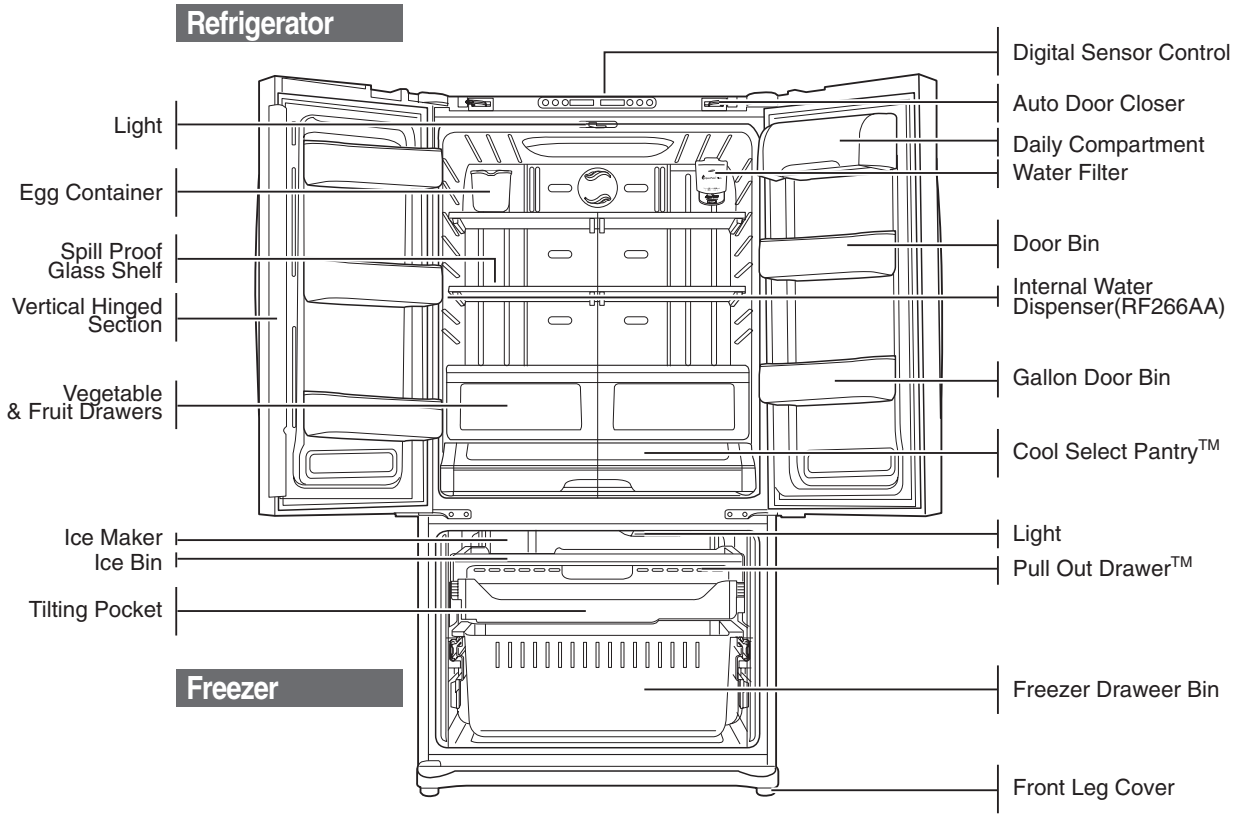
Refrigerator



Freezer



2-3) Interior Views



PRODUCT SPECIFICATIONS

2-4) Model Specification &Comparison Chart

ITEM			SPEC	SAMSUNG	MAYTAG	LG
				RF265/266AB	MFI2568AES	LFX25960ST
Appearance						
Product Zone			Cooling Tech	Twin Cooling	Mono Cooling	Mono Cooling
			Door Shape	Contour	Contour	Contour
			Special Room	Cool Select Pantry	Pantry	Pantry
Performance	Cooling Speed(Min)	F-Room	250 ↓	175.4	246	224
		R-Room	250 ↓	172.8	575	232
	89.6°F(32°C)	F-Room	-26.0 ↓	-32.0	-27.2	-28.8
		R-Room	2.0 ↓	-1.2	1.6	-1.8
	109.4°F(43°C)	F-Room	-18.0 ↓	-24.8	-20.9	-22.5
		R-Room	5.0 ↓	-2.5	5.9	0.8
	Temperature Distribution (Fridge)	F-Room	2.0 ↓	0.3	0.6	1.3
		R-Room	2.0 ↓	0.5	1.1	0.5
	Operation rate	N-N	60% ↓	47.4	60.7	56.5
Noise	Sound power level		46dB ↓	41.8	47.0	41.7
	Sound Pressure level		45dB ↓	41.2	48.2	40.1

PRODUCT SPECIFICATIONS

2-5) Model Specification & Specification Chart

ITEM	Model		RF265AB	RF266AB
			Pantry	Int W/D with Pantry
External size	W		35.7 inch (908mm)	
	D	On Cabinet	29.1 inch (704mm)	
		W/O Handle	32.9 inch (836mm)	
		With Handle	35.6 inch (905mm)	
	H	W/O Hinge Cap	68.6 inch (1744mm)	
		With Hinge Cap	69.8 Inch (1778mm)	
Net Capacity	Total		25.8Cu.ft (730.6 ℓ)	
	Freezer		8.2Cu.ft (232.2 ℓ)	
	Refrigerator		17.7Cu.ft (501.2 ℓ)	
Efficiency of volume			50.17%	
Weight	Set		300 Pounds (137kg)	
	Packing		333 Pounds (152kg)	
Packing	Width		38.6 Inch (980mm)	
	Depth		39.4 Inch (1001mm)	
	Height		75.7 Inch (1923mm)	
Compressor			reciprocate	
Rated Frequency and Frequency			AC 115V/60Hz	
Refrigerant			R 134a	
Foaming agent			C-Pantane	
Refrigerant Input Amount			5.64 oz (160g)	
Kind of Refrigerator			Indirect Cooling Method Refrigerator	
Motor Rated Consumption Power			140A	
Electric Heater Rated Consumption Power			385W	

COLOR			
	Cabinet (Both sides of Embo)	Door	Molding
Black	All Black	Empire Black	I Black
Real STS	Noble STS	Versailles Stainless	Creamy STS
White	Snow White	Snow White	Snow White
Platinum STS	Noble STS	Stainless Platinum	Creamy STS

PRODUCT SPECIFICATIONS

2-5) Model Specification & Specification Chart

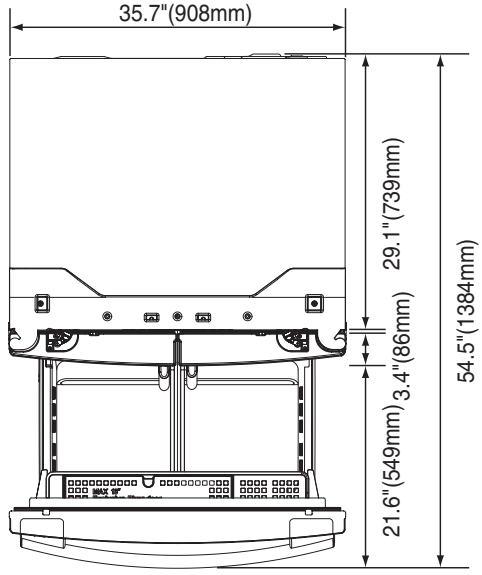
Items				Specification	
Model				RF265AB	RF266AB
Components for Freezer	Compressor		Model	MK172D-R2U	
			Starting type	R.S.C.R	
			Oil Charge	FREOL α - 10	
	Evaporator		Freezer	SPLIT FIN TYPE	
			Refrigerator	SPLIT FIN TYPE	
	Condenser			Forced and natural convection type	
	Dryer			Molecular sieve XH-9	
	Capillary tube(Dia x Length)			0.032” x 118” (0.81mm x 2997mm)	
	Refrigerant			R134a	
Room Temperature Sensor Components	Freezer	Model	Temperature Selection	ON(℉)	OFF(℉)
		THERMISTOR (F-SENSOR) 502AT	-14℉(-26℃)	-11℉(24℃)	-17℉(-27℃)
			-2℉(-19℃)	1℉(-17℃)	-5℉(-21℃)
			8℉(-13℃)	11℉(-12℃)	5℉(-15℃)
	Refrigerator	Model	Temperature Selection	ON(℉)	OFF(℉)
		THERMISTOR (R-SENSOR) 502AT	34℉(1℃)	36℉(2℃)	32℉(0℃)
			38℉(3℃)	40℉(4℃)	36℉(2℃)
			46℉(8℃)	48℉(9℃)	44℉(7℃)
Defrost Related Components	Defrost Cycle	First Defrost Cycle (Concurrent defrost of F and R)		6hr ±10min	
		Defrost Cycle(FRE)		12~23hr(vary according to the conditions used)	
		Defrost Cycle(REF)		6~11hr(vary according to the conditions used)	
		Pause time		12 ±1min	
	Defrost Sensor	F Defrost-Sensor	Model	THERMISTOR (502AT)	
			SPEC	5.0 ㏀ at 77℉(25℃)	
		R Defrost-Sensor	Model	THERMISTOR (502AT)	
			SPEC	5.0 ㏀ at 77℉(25℃)	
	Bimetal	F Bimetal-thermo Protector	Rated	AC 125V 10A	
			Operating temperature	Off : 140℉(60℃) / On : 104℉(40℃)	
		R Bimetal-thermo Protector	Rated	AC 125V 10A	
			Operating temperature	Off : 140℉(60℃) / On : 104℉(40℃)	

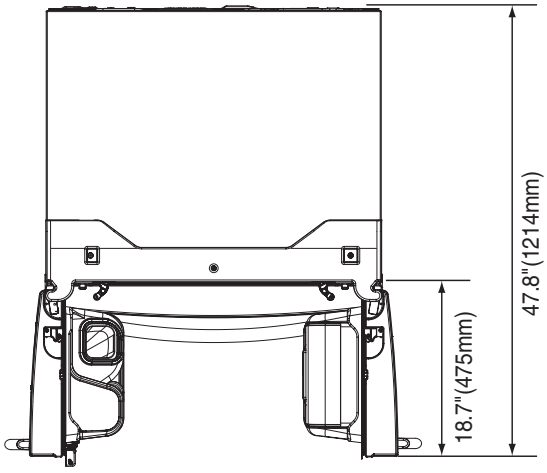
PRODUCT SPECIFICATIONS

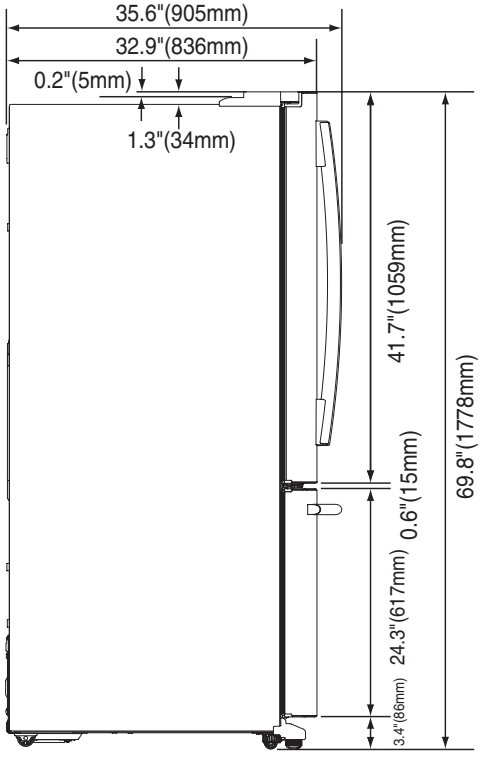
Items			Specification	
Model			RF265AB	RF266AB
Electric Components	Defrost Heater(FRE)	Conducting af F Defrost	AC 115V, 240W	
	Defrost Heater(REF)	Conducting at R Defrost	AC 115V, 120W	
	DISPENSER Heater	Interlock with F-FAN	AC 115V, 10W	
	FRENCH Heater	-	AC 115V, 10W	
	Bimetal thermo For Preventing Overheating of Refrigerator Lamp		AC125V 10A / Off: 140℉(60℃) / On : 104℉(40℃)	
	Condenser for COMP (Package type)	Running	12㎌ ,250V	
		Starting	-	
	Starting-Relay	Model	PTHTM100MD3-00	
		Operation	10 Ω ± 20%	
	Over load Relay	Model	4TM435RFBYY-53	
		Temp.ON	266± 41℉(130± 5℃)	
		Temp.OFF	141.8± 48.2℉(61± 9℃)	
	Rated Voltage		AC 115V/60Hz / 220~240V/50Hz	
	MOTOR-BLDC(FRE)		DC12V / FDQT06SS3	
	MOTOR-BLDC(REF)		DC12V / FDQT06SS3	
	MOTOR-BLDC(Circuit)		DC12V / FDQT06SS2	
	MOTOR-DAMPER(PANTRY)		DC12V / NSBY001TA1	
	Lamp(FRE)		AC 120V 60W(1EA)	
	Lamp(REF)		AC 120V 60W(2EA)	
	Door Switch	FRE	AC 125V 1.5A (1EA)	
		REF	DC200V 1.5A	
	Power cord		AC125V 15A	
	Earth Screw		BSBN (BRASS SCREW)	

PRODUCT SPECIFICATIONS

2-6)Dimensions of Refrigerator (Inches)





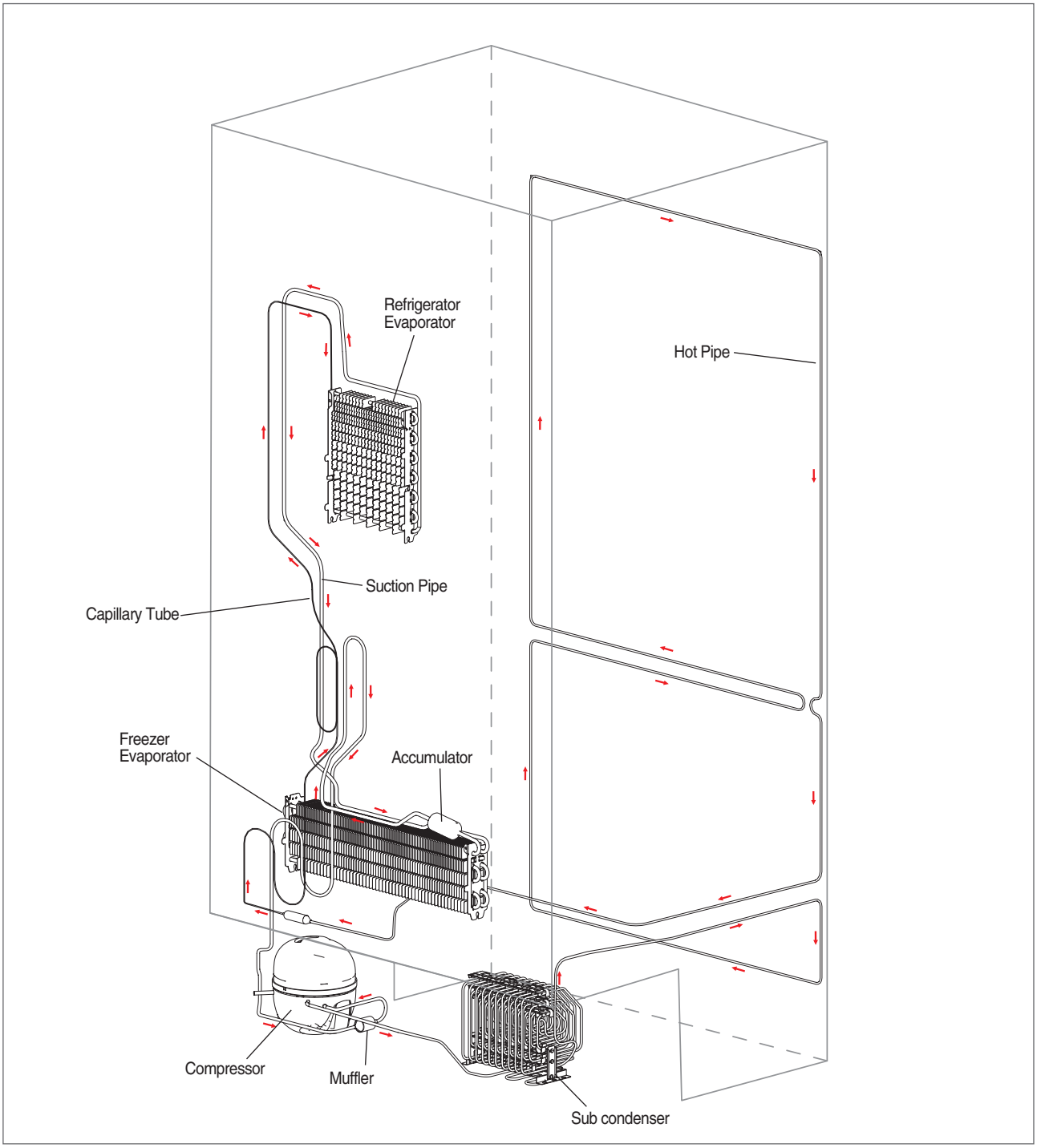


2-7) Optional Material Specification

Photographe	Part Name	Part Code	AMOUNT
	FILTER WATER-ASSY	DA29-00003B	1
	ASSY-PACKING SUB	DA99-00240S	1
	LAMP INCANDENT	4713-001223	3

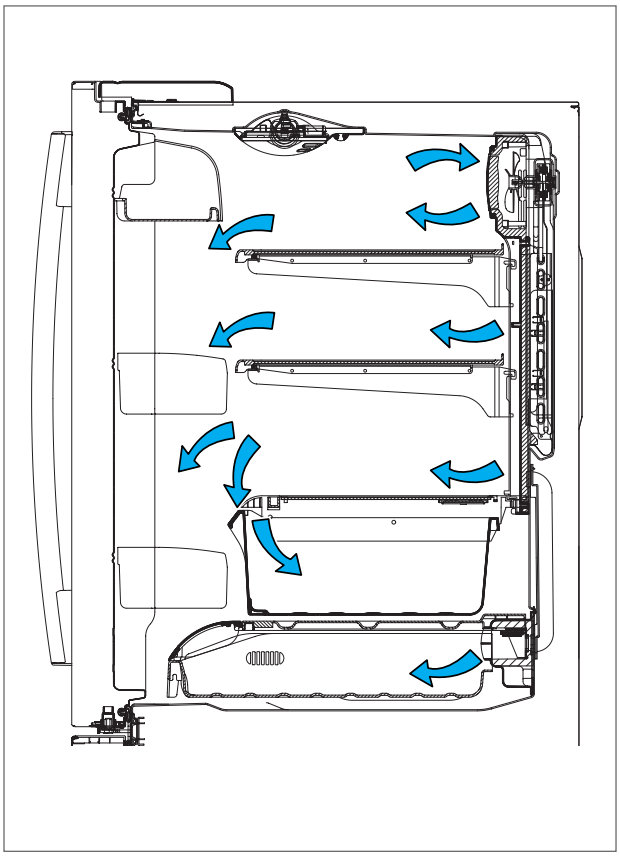
2-8) Refrigerant Route in Refrigeration cycle

Compressor → condenser → Hot Pipe → Dryer → Capillary Tube → Refrigerator Evaporator → Freezer Evaporator→ Suction Pipe → Compressor

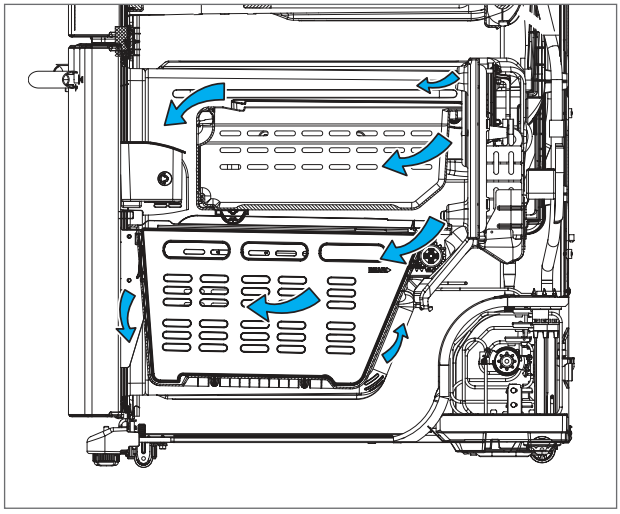


2-9) Cooling Air Circulation

Refrigerator

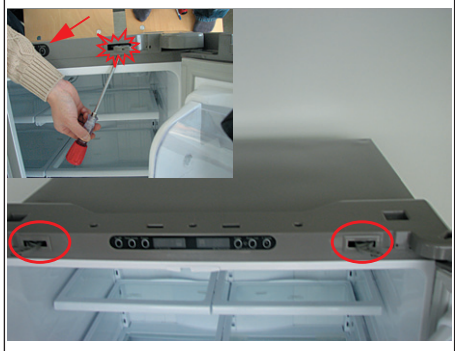
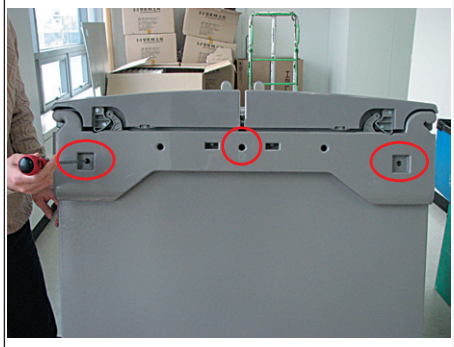
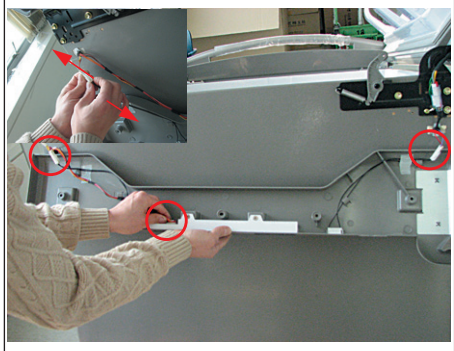
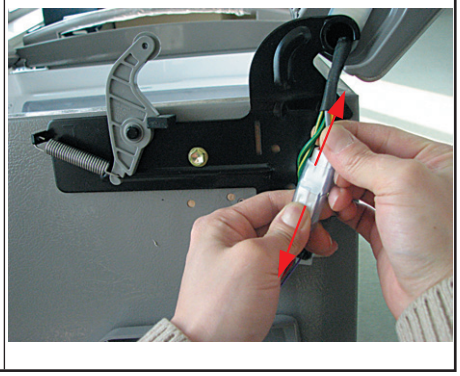


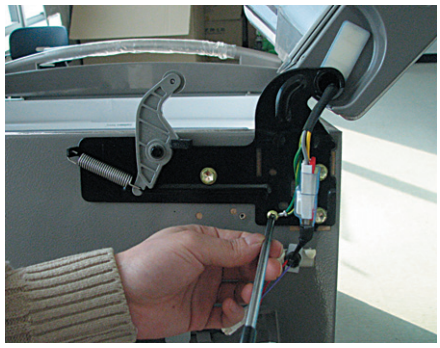
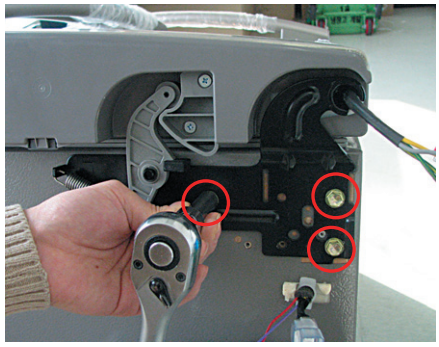
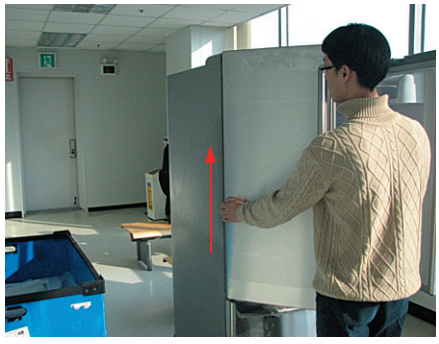
Freezer



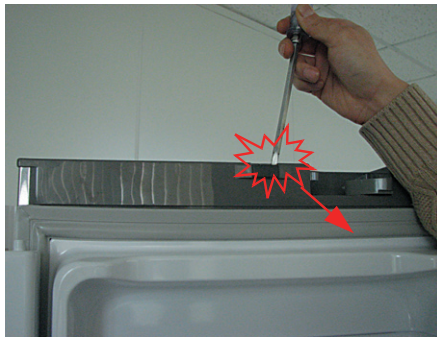
3. DISASSEMBLY AND REASSEMBLY

3-1) Refrigerator Door

Part Name	How To Do	Descriptive Picture
Refrigerator Door	1. Remove the cap-top table with using a flat-blade(-) screwdriver.	
	2. Remove 3 screws of the top-table.	
	3. Remove the 3 housing-connect screws of TOP-TABLE. (Refer to the picture)	
	4. Disengage the housing-connect of upper hinge (left door).	

Part Name	How To Do	Descriptive Picture
Refrigerator Door	5. Remove the earth-screw of upper hinge.	
	6. Remove 3 bolt screws of hinge. Caution : Avoid damage or separation of the door when removing the bolt.	
	7. Remove the door by lifting it straight up.	

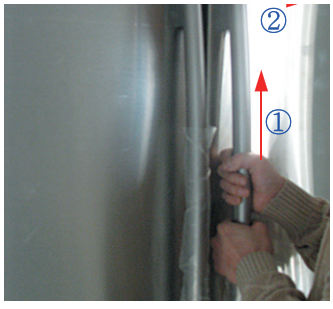
3-2) Door Switch In Refrigerator

Part Name	How To Do	Descriptive Picture
Door Switch In Refrigerator	1. Remove the magnet switch with using a flat-blade(-) screwdriver. (Refer to the picture)	

3-3) Door Gasket

Part Name	How To Do	Descriptive Picture
Door Gasket In Refrigerator	1. Remove the door-gasket by pulling it out of the retaining channel.	

3-4) Door Handle

Part Name	How To Do	Descriptive Picture
Door Handle Refrigerator	1. Remove the door handle of refrigerator by lifting it up and pulling it out. (Refer to the picture)	

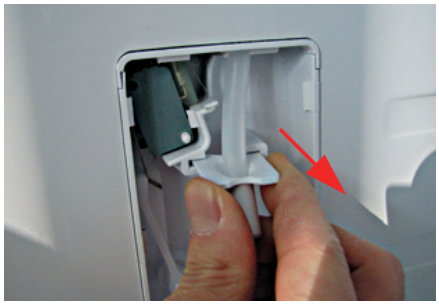
DISASSEMBLY AND REASSEMBLY

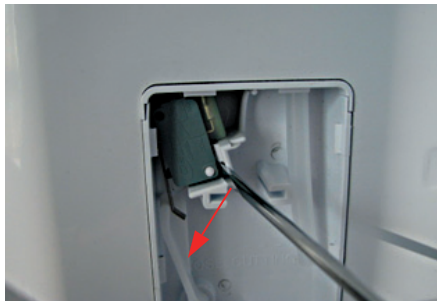
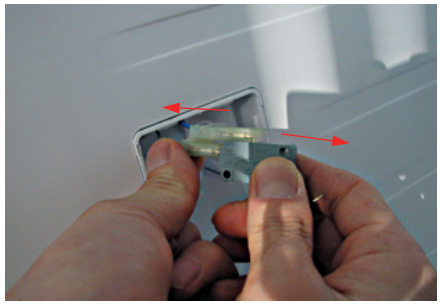
Part Name	How To Do	Descriptive Picture
Door Handle Freezer	1. Remove the Cap Door with using a flat-blade(-) screwdriver.	
	2.Unscrew 4 screws	
	3. Lift up the handle to have the Slider Handle Fre(1) pushed back.	
	4. After having the Slider Handle Fre(1) pushed back, screw up at the hole.	
	5.Remove the door handle by lifting it up	

3-5) Refrigerator Light

Part Name	How To Do	Descriptive Picture
Refrigerator Light	1. Remove the light cover by pulling it down with pushing the rear of light cover.	
	2. Remove the lamp by turning it counterclockwise.	

3-6) Internal Water Dispenser

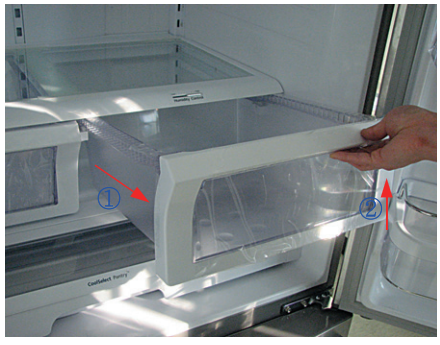
Part Name	How To Do	Descriptive Picture
Internal Water Dispenser Cover	1. Remove the internal water dispenser cover by inserting a flat-blade(-) screwdriver to the gap of dispenser with pulling the cover.	
Water Hose Cap	2. Remove the water hose cap by pulling it out. (Refer to the picture)	

Part Name	How To Do	Descriptive Picture
Micro Switch	1. Remove the micro switch with using flat- blade(-) screwdriver. (Refer to the picture)	
	2. Disengage the Housing Connect. (Refer to the picture)	

3-7) Spill Proof Glass Shelf

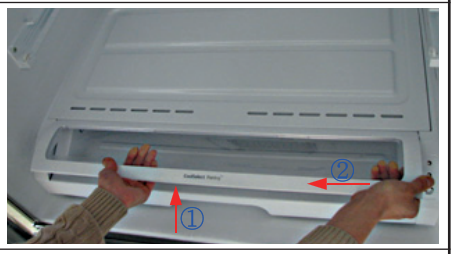
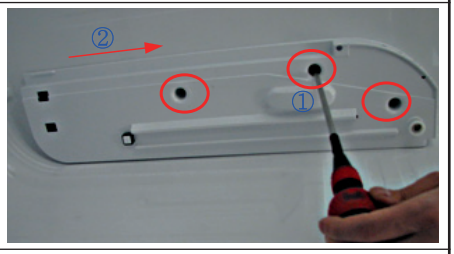
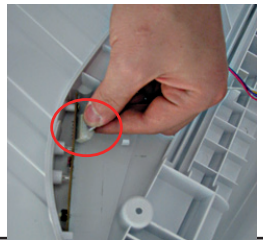
Part Name	How To Do	Descriptive Picture
Spill Proof Glass Shelf	1. Remove the shelf by lifting the front plane of the shelf up and pulling it out.	

3-8) Vegetable & Fruit Drawers

Part Name	How To Do	Descriptive Picture
Vegetable & Fruit Drawers	1. Remove the vegetable & fruit drawer by pulling the roller part and lifting it up.	

Part Name	How To Do	Descriptive Picture
Vegetable & Fruit Drawers Shelf	1. Remove the vegetable & fruit drawers shelf by pulling it out. (Refer to the picture)	

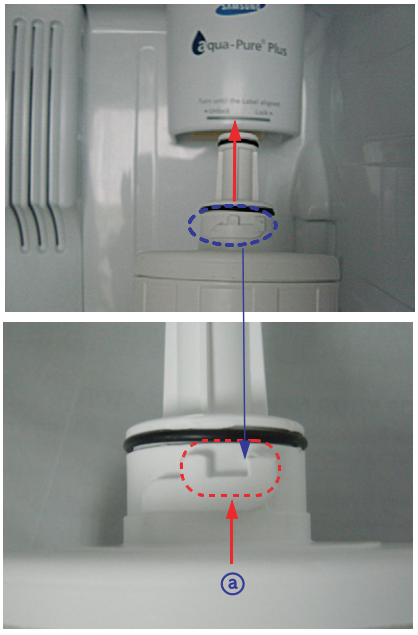
3-9) Cool Select Pantry

Part Name	How To Do	Descriptive Picture
Cool Select Pantry	1. Remove the cool select pantry by pulling the roller part and lifting it up.	
Cool Select Pantry Cover	1. Remove the cool select pantry cover by lifting the central part of the cover with pushing it to the left.	
Cool Select Pantry Shelf	1. Remove the cool select pantry shelf by lifting the front part of the shelf with pulling it.	
Cool Select Pantry Rail	1. Remove the cool select pantry rail by unscrewing the 3 screw parts and pulling the rail.	
	2. Disconnect the housing connect of internal rail part. (Refer to the picture)	

3-10) Water Filter (Disassembly)

Part Name	How To Do	Descriptive Picture
Water Filter	1. Remove the shelf by lifting the front plane of the shelf up and pulling it out. 2. Remove the water filter by turning it Counterclockwise. (Refer to the picture)	

3-11) Water Filter (Reassembly)

Part Name	How To Do	Descriptive Picture
Water Filter	1. Place the part of (ⓐ) arrow (that is indicating in the picture) in the middle of the front filter cover and push it up.	
	2. Turn the water filter counterclockwise until central horizontal line of filter cover and both ends of water filter label are made all of the same width. (Refer to the picture.)	

3-12) Gallon Door Bin

Part Name	How To Do	Descriptive Picture
Gallon Door Bin	1. Remove the gallon door bin by lifting it up. (Refer to the picture)	

3-13) Vertical Hinged Section

Part Name	How To Do	Descriptive Picture
Vertical Hinged Section	1. Remove 2 screw cap parts with using flat-blade(-) screwdriver. (Refer to the picture)	
	2. Unscrew 2 screws.	
	3. Disengage the internal housing connect of vertical hinge.	
	4. Remove the vertical hinged section by lifting vertical hinge up. (Refer to the picture)	

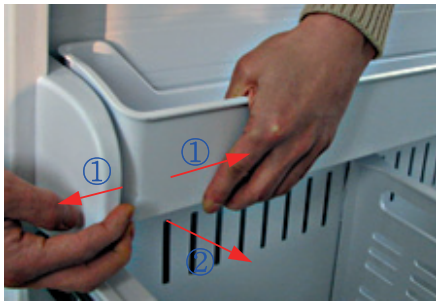
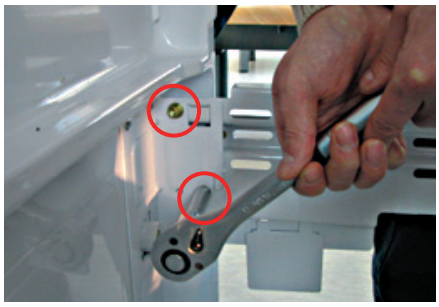
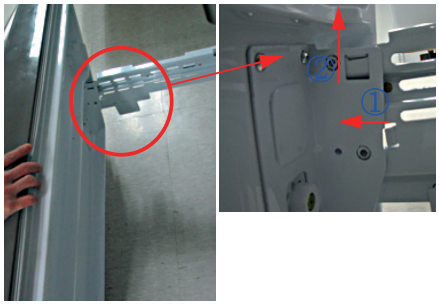
3-14) Evaporator Cover In Refrigerator

Part Name	How To Do	Descriptive Picture
Evaporator Cover In Refrigerator	1. Remove the angle cap with a flat-blade screwdriver. (Refer to the picture)	
	2. Unscrew 4 screws.	
	3. Remove the the lower part of angle mid by pulling it out and pushing it down. (Refer to the picture)	
	4. Remove the hook by pulling it from the lower part and pushing the cover down. (Refer to the picture)	
	5. Disconnect the housing connector of the rear plane. (Refer to the picture)	

3-15) Evaporator In Refrigerator

Part Name	How To Do	Descriptive Picture
Evaporator In Refrigerator	1. Remove the the housing cover by pushing both lateral sides of the housing cover and pulling it out. (Refer to the picture)	
	2. Disconnect the housing connector part. (Refer to the picture)	
	3. Unscrew 2 screws.	
	4. Remove the evaporator by lifting the bottom side of it up and pulling it out. (Refer to the picture)	

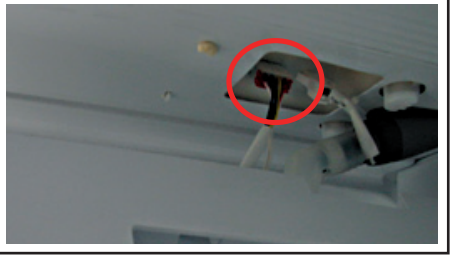
3-16) Freezer Door

Part Name	How To Do	Descriptive Picture
Freezer Door	1. Open the freezer door. Remove the tilting pocket by pushing it to the left. (Refer to the picture)	
	2. Remove the 2 support tilting pockets with temporary force. (Refer to the picture)	
	3. Remove the freezer drawer bin by lifting the bottom part of it up. (Refer to the picture)	
	4. Remove 4 internal bolts at both lateral sides of rail part. (Refer to the picture)	
	5. Remove the freezer door by tilting the bottom part of it and lifting it up.	

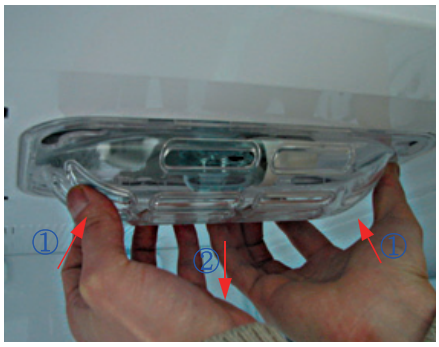
3-17) Pull Out Drawer

Part Name	How To Do	Descriptive Picture
Pull Out Drawer	1. Slide the drawer in as much as possible	
	2. Lift the drawer up	
	3. Remove the pull out drawer by lifting the bottom part of drawer bin and pulling it out.	

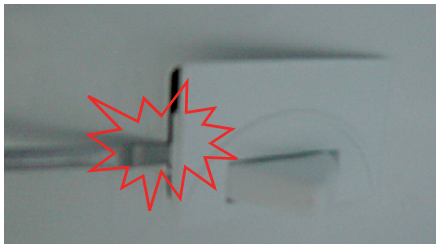
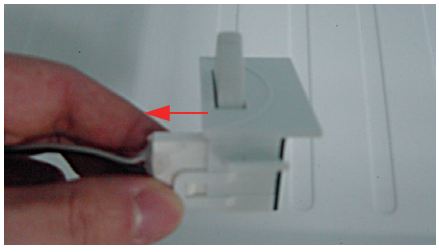
3-18) Ice Maker

Part Name	How To Do	Descriptive Picture
Ice Maker	3. Remove the ice maker by pulling it out.	
	4. Disconnect the housing connector part.	

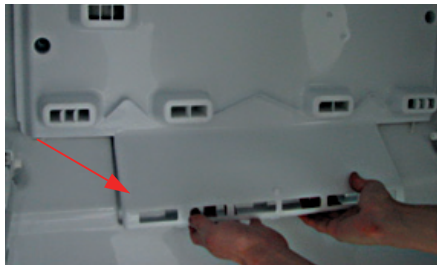
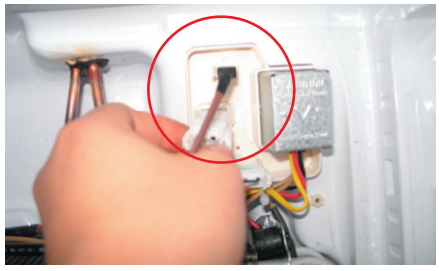
3-19) Freezer Light

Part Name	How To Do	Descriptive Picture
Freezer Light	1. Remove the light by pulling the light cover down with pushing the rear plane of light cover.	

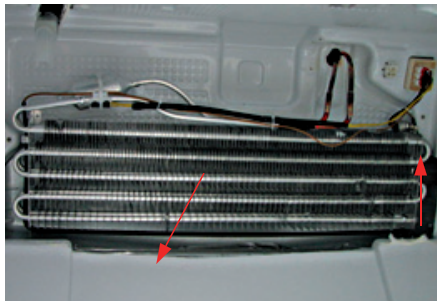
3-20) Door Switch In Freezer

Part Name	How To Do	Descriptive Picture
Door Switch In Freezer	1. Remove the freezer drawer bin with using flat-blade(-) screwdriver.(Refer to the picture)	
	2. Disconnect the housing connector part.	

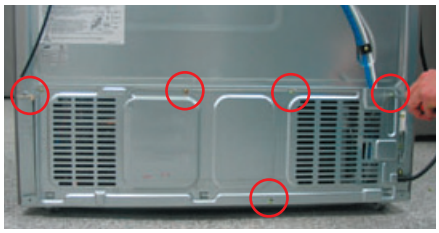
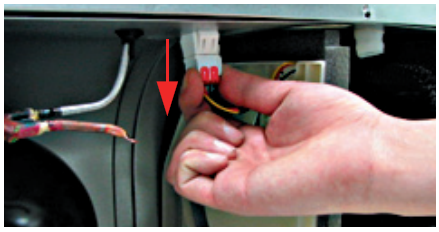
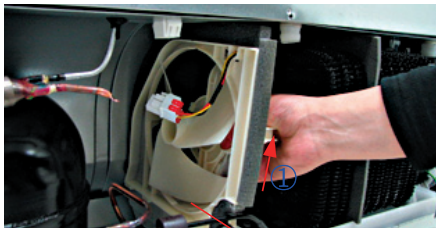
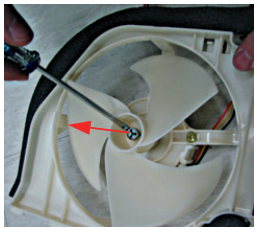
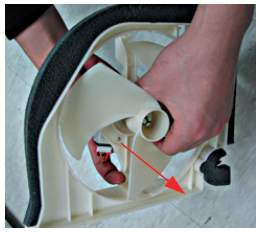
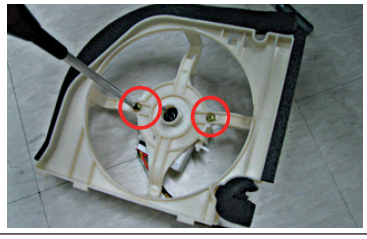
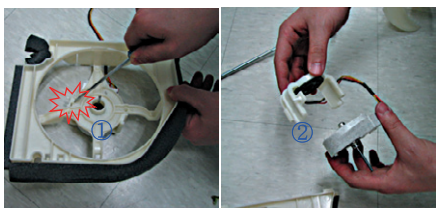
3-21) Evaporator Cover In Freezer

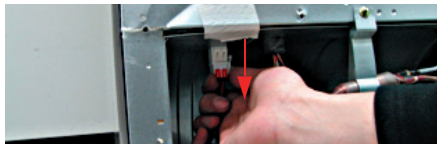
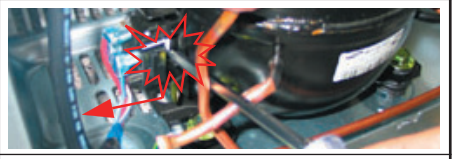
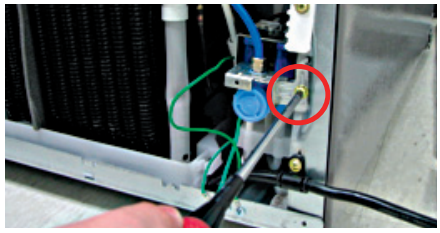
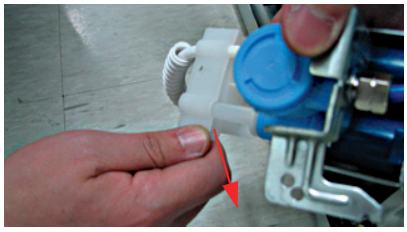
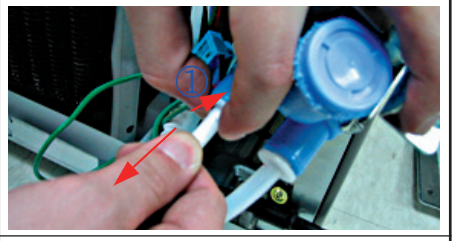
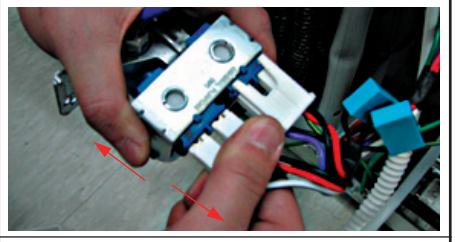
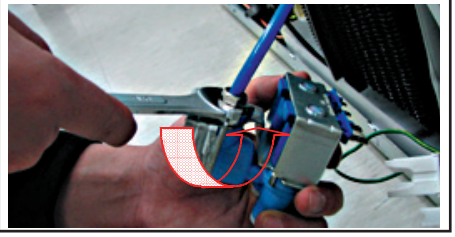
Part Name	How To Do	Descriptive Picture
Evaporator Cover In Freezer	1. Remove the freezer door, freezer drawer bin, pull out drawer, ice maker and then unscrew 2 screws.	
	2. Remove the evaporator cover by pulling the bottom part of it out.	
	3. Disconnect the housing connector part.	

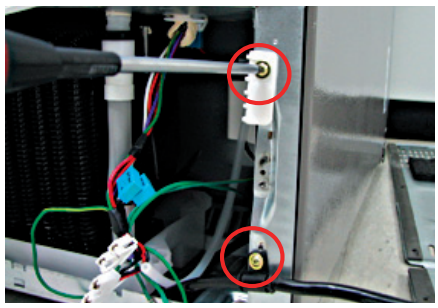
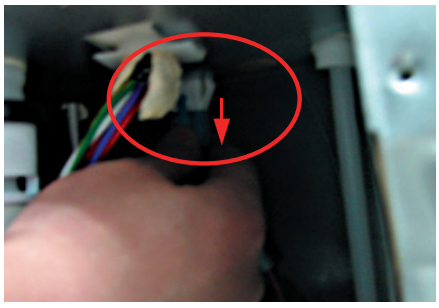
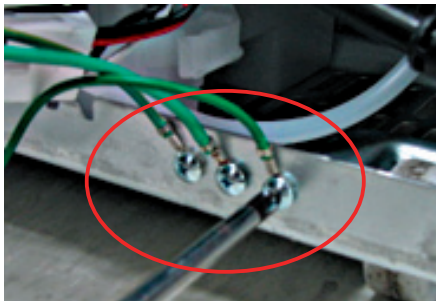
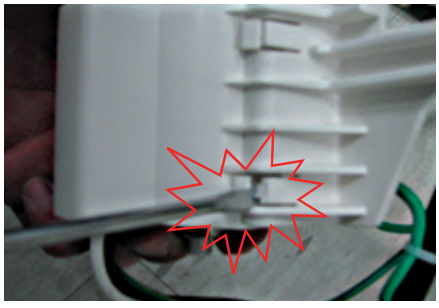
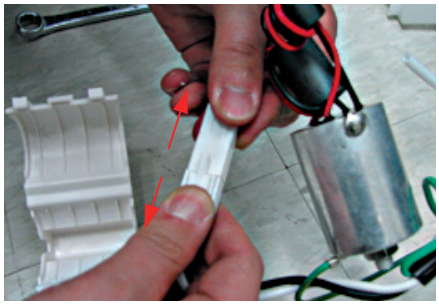
3-22) Evaporator In Freezer

Part Name	How To Do	Descriptive Picture
Evaporator In Freezer	1. Remove the housing cover by pushing both lateral sides of housing cover part and pulling it out. Remove the housing connector part.	 
	2. Remove the evaporator by pulling the lower part of evaporator with lifting it up.	

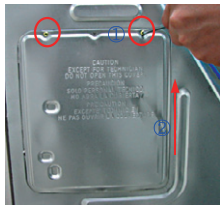
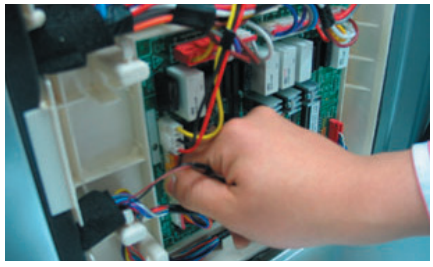
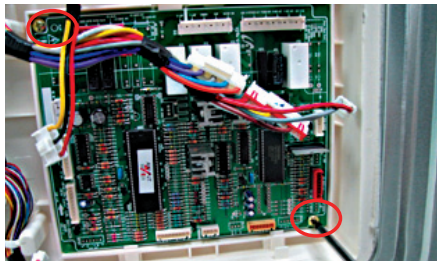
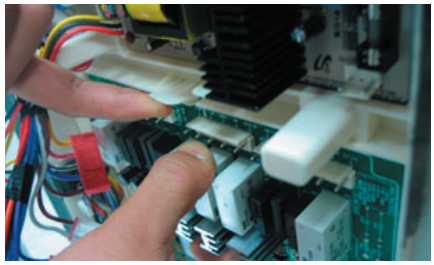
3-23) Machine Compartment

Part Name	How To Do	Descriptive Picture
Motor Fan	1. Unscrew 5 screws of cover comp.	
	2. Disengage the housing connector. (Refer to the picture)	
	3. Remove the hooker of support circuit motor by lifting the hooker up and pulling it out.	
	4. Remove the spring with using flat-blade screwdriver. (Refer to the picture)	
	5. Remove the motor fan by pulling the fan out with grasping the motor part. (Refer to the picture)	
	6. Unscrew 2 screws fixed in the motor.	
	7. Remove the hook of motor cover with using a flat-blade (-) screwdriver and then remove the motor.	

Part Name	How To Do	Descriptive Picture
Relay O/L	1. Disengage the housing connector.	
	2.Remove Cover Relay	
	3. Remove the relay O/L with a flat-blade screwdriver. (Refer to the picture)	
Water Valve	1. Unscrew the water valve fixed in the screw part.	
	2. Remove the the hook part of hose fixer by pushing it down.	
	3. Remove 2 water hose parts with pushing upper part of ①. (Refer to the picture)	
	4. Disengage 2 housing connector parts.	
	5. Remove the hose connecting nut with using a wrench(8mm).	

Part Name	How To Do	Descriptive Picture
Power Cord & Noise Filter	1. Unscrew 2 screws.	
	2. Disengage the housing connector.	
	3. Unscrew 3 earth screws.	
	4. Remove the cover by pushing the hook up with using a flat-blade(-) screwdriver. (Refer to the picture)	
	5. Disengage the housing connector to separate the power cord and noise filter.	

3-24) Electric Box

Part Name	How To Do	Descriptive Picture
PBA Main	1. Pull the refrigerator forward to have enough space to work on the rear side of the appliance.	
	2. Unscrew 2 screws for the PCB cover.	 
	3. Disengage all housing connectors connected with main PCB.	
	4. Unscrew 2 PCB fixed screws.	
	5. Remove the main PCB while lifting the upper part of the hook up. (Refer to the picture)	
PBA SMPS	1. Remove the cover PCB and then disengage the housing connector connected with main PCB. Remove the SMPS PCB while pushing the lower part of the hook down.	 

4. TROUBLESHOOTING

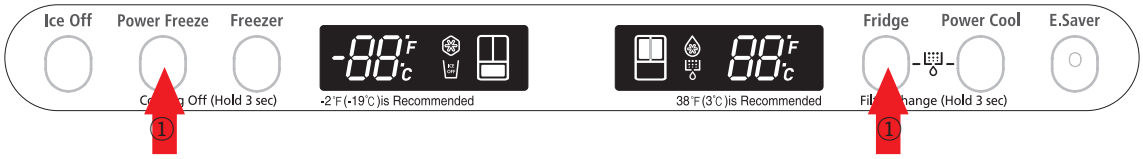
TROUBLESHOOTING

4-1) Function for failure diagnosis

4-1-1. Test mode (manual operation / manual defrost function)

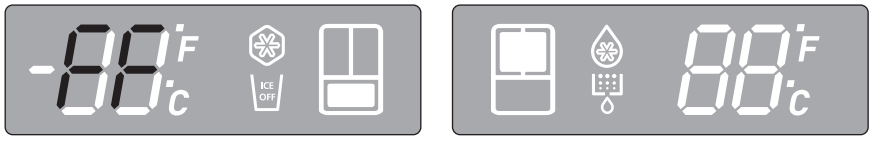
- If Power Freeze & Fridge temperature control Key on the front of panel are pressed simultaneously for 8 seconds , it will be changed to the test mode and all displays on the front of panel will be off.
- If any key on the front of panel is pressed within 15 seconds after the test mode, it will be operated as below sequence :
  manual operation(fresh food compartment) ↔ manual defrost of fresh food compartment(rd) ↔ manual defrost of fresh food and freezer compartments (Fd) ↔ Cancel(Display all off).
- If any key on the front of panel is not pressed within 15 seconds after the test mode, the test mode will be canceled and it will be returned to previous mode.

1) Manual operation function



① If Power Freeze Key + Fridge Key are pressed simultaneously for 8 seconds, (displays are all off)
It will be changed to the test mode (manual operation) by pressing any key

1-1) If any key is pressed once in test mode, blinks "FF" on the display and it indicates the refrigerator has entered the manual operation. At this moment, buzzer beeps as an alarm.



1-2) If manual operation is selected, comp will run at once without 5 minutes delay in any mode. If the refrigerator is on the defrost cycle at the moment, defrost will be finished and manual operation will begin.
(Be careful if manual operation get started at the moment of comp off, over load could be occurred)

1-3) If manual operation works, comp & f-fan operate continuously for 24 hours and fresh food compartment will be controlled by the setting temperature.

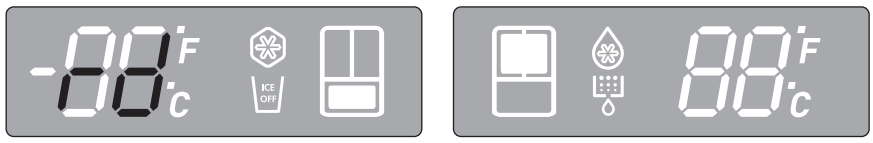
1-4) When the manual operation runs, setting temperature will be selected automatically as below: freezer compartment -14℉(-25℃), fresh food compartment 33.8℉(1℃).

1-5) During manual operation, Power Freeze & Power Cool function will not be worked.
If a function is selected, the power function icon of the selected function will be off automatically after 10 seconds.

1-6) Manual operation can be canceled during manual operation by turning on the appliance after power off(reset) or choosing the step 4) test cancel mode.

1-7) Alarm(0.25 sec ON/ 0.75 sec OFF) will beep continuously until manual operation is completed and there is no function to make the sound stop.

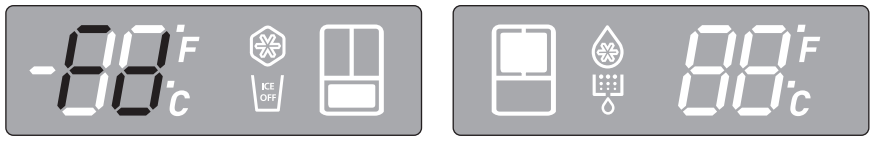
2) Manual defrost(fresh food compartment) function



2-1) If any key is pressed one more time during manual operation(fresh food compartment), "rd" shows in the display and then manual operation will be canceled at once and fresh food compartment will be defrosted.

2-2) At this moment, alarm beeps for 3 seconds(0.1 sec ON/ 1 sec OFF) during manual defrost(fresh food compartment) function.

3) Simultaneous manual defrost(fresh food and freezer compartments) function



3-1) If any key is pressed one more time during manual defrost(defrost of fresh food compartment, "rd"), "Fd" shows on the display and then fresh food and freezer compartments defrost will operate.
Manual defrost of Fresh food and freezer compartments are followed by manual defrost freezer compartment.

3-2) At this moment, alarm beeps for 3 seconds (0.5 sec ON/ 0.5 sec OFF) during manual defrost function of fresh food and freezer compartment.

4) Test cancel mode

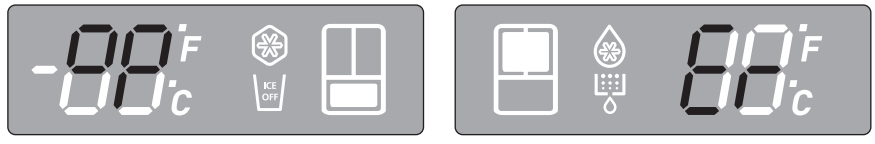
4-1) During defrosting of fresh food and freezer compartments simultaneously, if the display panel change to the test mode and test button is pressed one more time, defrosting of fresh food and freezer compartments will be canceled at the same time and will return to the normal operation.
Or, all test functions will be canceled by turning main power ON again after it OFF.

4-1-2. Display function of Communication error

1) Display function when Panel ↔ MAIN MICOM communication has error

1-1) If there is no answer for 10 seconds after the panel micom received the requirement of communication, "Pc - Er" display on the panel PCB will be ON/OFF alternately until the communication error is canceled. (0.5 sec ALL ON, 0.5 sec ALL OFF alternately)

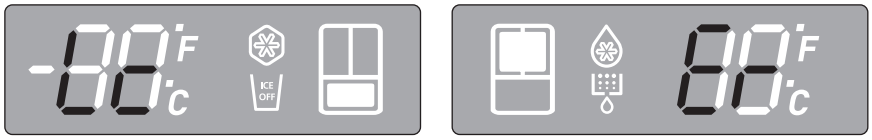
(0.5 sec ALL ON, 0.5 sec ALL OFF alternately)



2) Display function when MAIN ↔ LOAD MICOM communication has error

2-1) If there is no answer for 20 seconds after the main micon received the requirement of communication from load MICOM, "Lc - Er" display on the panel PCB will be ON/OFF alternately until the communication error is canceled.

(0.5 sec ALL ON, 0.5 sec ALL OFF alternately)



2-2) Also pantry room display will be ON/OFF alternately until the communication error is canceled.

(0.5 sec ALL ON, 1.5 sec ALL OFF alternately)

4-1-3. Self-diagnostic function

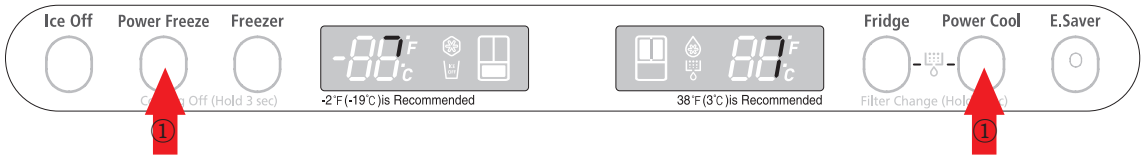
1) Self-diagnostic function in the Initial power ON

1-1) Micom operates self-diagnostic function to check the temperature sensor condition within 1 second when the refrigerator turned On initially.

1-2) If bad sensor is detected by the self-diagnostic function, the applicable display LED will blink for 0.5 sec.
At this moment, there is no beep sound.(Refer to self-diagnostic CHECK LIST)

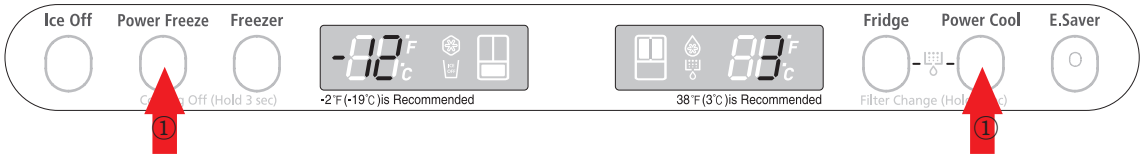
1-3) Self-diagnostic button is recognized only when the error is displayed by the bad sensor. Display does not operate normally but temperature control will be controlled by the emergency operation.

1-4) When the error is detected by self-diagnosis, the error can be canceled automatically if all troubled sensors are corrected or Self-diagnostic function key (Power Freeze + Power Cool) are pressed simultaneously for 8 seconds.
(Return to normal display mode)



① If Power Freeze Key + Power Cool Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

2) Self-diagnostic function during normal operation



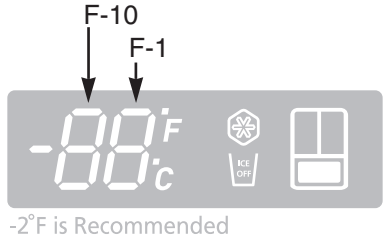
2-1) If Power Freeze + Power Cool Key are pressed simultaneously for 6 seconds during normal operation, the temperature setting display will operate for 2 seconds (ON/OFF 0.5sec each).
If Power Freeze + Power Cool Key are pressed simultaneously for 8 seconds (including above 2 seconds), self-diagnostic function will be selected.

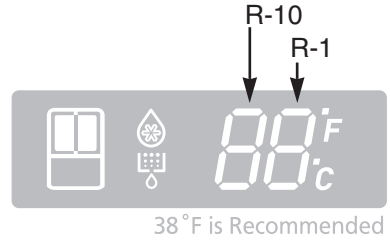
2-2) At this moment, self-diagnostic function will be returned with buzzer sound 'ding-dong'. If there is an error, display of error will be operated for 30 seconds and then return to normal condition whether problem is corrected or not.
(Refer to self-diagnosis CHECK LIST)

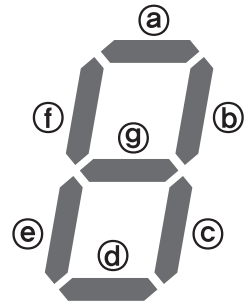
2-3) Input by button is not accepted during self-diagnostic function.

∗ Self-diagnosis CHECK LIST

NO	Trouble item	Display LED	Trouble contents
1	Ice Maker Sensor Error	R-1-ⓐ	ICE MAKER SENSOR part error
2	R-Sensor Error	R-1-ⓑ	FF SENSOR part error
3	R-DEF-Sensor Error	R-1-ⓒ	FF defrost SENSOR part error
4	R-FAN Error	R-1-ⓓ	FF inner fan motor part error
5	Ice Maker Error	R-1-ⓔ	ICE MAKER operation error
6	R-DEF.Error	R-1-ⓖ	FZ defrost part error
7	Ambient-Sensor Error	F-1-ⓐ	External SENSOR part error
8	F-Sensor Error	F-1-ⓑ	FZ SENSOR part error
9	F-DEF-Sensor Error	F-1-ⓒ	FZ defrost SENSOR part error
10	F-FAN Error	F-1-ⓓ	FZ inner fan motor part error
11	C-FAN Error	F-1-ⓔ	Machine room fan motor part error
12	F-DEF. Error	F-1-ⓖ	FZ defrost part error
13	Pantry-Damper-Heater Error	R-10-ⓐ	Damper Heater open/wire error
14	Pantry-Sensor Error	R-10-ⓑ	Pantry Room SENSOR part error
15	Panel↔Main MICOM communication Error	F-10-ⓖ	Panel↔Main MICOM communication error
16	L↔M communication Error	F-10-ⓕ	LOAD↔Main MICOM communication error





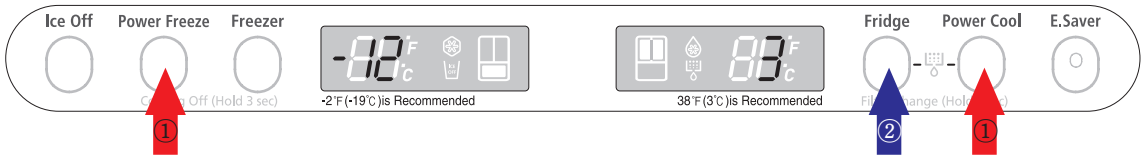


TROUBLESHOOTING

∗ Self-diagnostics check list

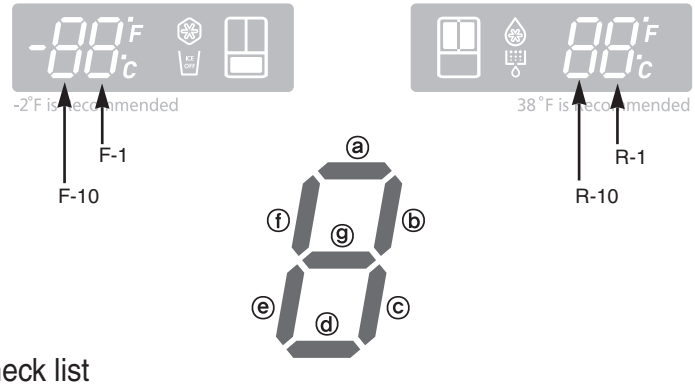
LED	Item	Trouble contents	Diagnostic method
R-1-ⓐ	Ice Maker Sensor Error	Display error : separation of sensor housing part, contact error, disconnection, short circuit Display error of detecting temperature of sensor: more than 149℉ (+65°C) or less than -58℉(-50°C)	When checking the voltage of MAIN PCB CN90 #3↔CN90#4 : should be between 4.5V~1.0V.
R-1-ⓑ	R-Sensor Error		When checking the voltage of MAIN PCB CN30#6↔CN75#1:should be between 4.5V~1.0V
R-1-ⓒ	R-DEF-Sensor Error		When checking the voltage of MAIN PCB CN30#7↔CN75#:should be between 4.5V~1.0V
R-1-ⓓ	R-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, separation of motor wire, motor error	Voltage of MAIN PCB CN75 Orange ↔ Gray should be between 7V~12V
R-1-ⓔ	Ice Maker Error	Display error : ice making kit is harvested more than 3 times and level error ** Apply to the applicable Ice Maker model.	After replacing ice maker, check the operation by turning the appliance ON again.
R-1-ⓖ	R-DEF. Error	Display error : separation of fresh food compartment defrost heater housing part, contact error, disconnection, short circuit or temperature fuse error. Display error : the defrosting does not finish though fresh food compartment defrost is heating continuously for more than 80 minutes.	After separating MAIN PCB CN70,CN71 from PCB, check the resistance value between CN70 White ↔ CN71 Orange should be 102(441) ohm ± 7%. (resistance value is varied by the input power) Check 0 Ohm : heater short, ∞ Ohm : wire / bimetal Open.
F-1-ⓐ	Ambient-Sensor Error	Display error : sensor housing separation, contact error, disconnection, short circuit Display error by detecting temperature of sensor: more than 149℉(+65°C) or less than -58℉(-50°C)	When checking the voltage of MAIN PCB CN32#1↔#4 : should be between 4.5V~1.0V.
F-1-ⓑ	F-Sensor Error		When checking the voltage of MAIN PCB CN30#3↔CN75#1:should be between 4.5V~1.0V
F-1-ⓒ	DEF-Sensor Error		When check the voltage of MAIN PCB CN30#4↔CN75#1:should be between 4.5V~1.0V
F-1-ⓓ	F-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, motor wire separation, motor error	Voltage of MAIN PCB CN75 Yellow ↔ Gray should be between 7V~12V.
F-1-ⓔ	C-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, motor wire separation, motor error	Voltage of MAIN PCB CN75 Sky-blue ↔ Gray should be between 7V~12V.
F-1-ⓖ	F-DEF. Error	Display error : separation of freezer compartment defrost heater housing part , contact error, disconnection, short circuit or temperature fuse error. Display error : the defrosting does not finish though fresh food compartment compartment defrost is heating continuously for more than 70 minutes.	After separating MAIN PCB CN70,CN71 from PCB, check the resistance value between CN70 brown ↔ CN71 Orange should be 102(220) ohm ± 7%. (Resistant value is varied by input power) Check 0 Ohm : heater short, ∞ Ohm : wire / bimetal Open.
R-10-ⓐ	Pantry-Damper-Heater Error	Display error when open error is detected by damper heater : separation of Damper Heater housing part, contact error, disconnection, short circuit	After separating MAIN PCB CN91from PCB, check the resistance value between Black ↔ brown wire should be 145 ohm ± 7%. Check 0 Ohm : heater short, ∞ Ohm : wire / bimetal Open.
R-10-ⓑ	Pantry-Sensor Error	Display error : separation of sensor housing, contact error, disconnection, short circuit. Display error by detecting temperature of sensor: more than 149℉(+65°C) or less than -58℉(-50°C)	When checking the voltage of MAIN PCB CN30#8 ↔ #9 : should be between 4.5V~1.0V.
F-10-ⓖ	Panel↔Main communication Error	Display "oP/LC-Er" in the panel with alarm : MICOM MAIN ↔ LOAD communication error MICOM MAIN ↔ PANEL communication error LC-Er is displayed when the Option is not equivalent with the right value	Actually, it is desirable to recheck the condition with the oscilloscope(1G Hz) after replacing Main and Panel PCB.
F-10-ⓕ	Load↔Main communication Error		

4-1-4. Display function of Load condition



① If Power Freeze Key + Power Cool Key are pressed simultaneously for 6 seconds, ALL ON/OFF will blink with 0.5interval for 2 seconds.
② If take the finger off from above keys and press Fridge Key, load condition mode will be started.

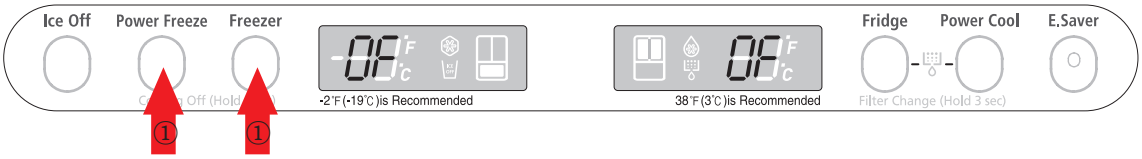
1) If Power Freeze Key + Power Cool Key are pressed simultaneously for 6 seconds during normal operation, the temperature setting display of fresh food and freezer compartments will blink ALL ON/OFF with 0.5 for 2 seconds.
2) At this moment, If Fridge Key after Power Freeze Key + Power Cool Key is pressed, load condition display mode will be returned with alarm.
3) Load condition display mode shows the load that micom signal is outputting.
However, It means that micom signal is outputting, it does not mean whether load is operating or not. That is to say that though load operation is displayed, load could not be operated by actual load error or PCB relay error etc.
4) Load condition display function will maintain for 30 seconds and then normal condition will be returned automatically.
5) Load condition display is as below.



∗ Load mode Check list

Display LED	Display contents	Operation contents
R-1-ⓐ	R-FAN High	When fresh food compartment fan high operates, applicable LED ON
R-1-ⓑ	R-FAN Low	When fresh food compartment fan low operates, applicable LED ON
R-1-ⓒ	R-DEF Heater	When fresh food compartment defrost heater operates, LED ON
R-1-ⓓ	Start Mode	Initial power ON refrigerator, LED ON
R-1-ⓔ	Overload condition	When ambient temperature is more than 93℉(34℃), LED ON
R-1-ⓕ	Low temperature condition	When ambient temperature is less than 72℉(22℃), LED ON
F-1-ⓔ,ⓕ ALL LED Off	Normal Condition	When ambient temperature is between 73℉(23℃) ~ 91℉(33℃), LED ON
R1-ⓖ	Exhibition Mode	Display mode, LED ON
F-1-ⓐ	COMP.	When compressor operates, applicable LED ON
F-1-ⓑ	F-FAN High	When freezer compartment fan high operates, applicable LED ON
F-1-ⓒ	F-FAN Low	When freezer compartment fan low operates, applicable LED ON
F-1-ⓓ	F-DEF Heater	When freezer compartment defrost heater operates, LED ON
R-10-ⓔ	C-FAN High	When compressor fan high operates, applicable LED ON
R-10-ⓕ	C-FAN Low	When compressor fan low operates, applicable LED ON
F-10-ⓖ	French Heater	When french heater operates, applicable LED ON
F-10-ⓐ	Pantry Room Damper Open	When damper open, applicable LED ON

4-1-5. Exhibition mode setting function



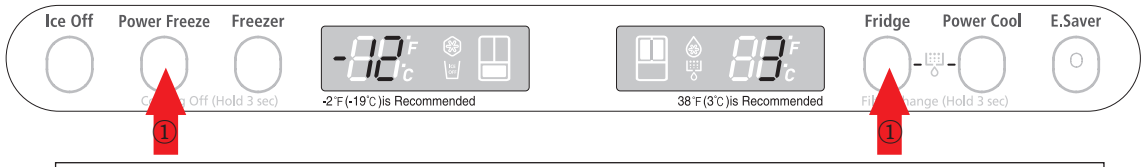
① If Power Freeze Key + Freezer Key are pressed for 3 seconds, show room mode will be started.

1) If Power Freeze Key + Freezer Key are pressed simultaneously for 3 seconds during normal operation, show room mode will be started with buzzer sound(ding-dong).
2) If above Power Freeze & Freezer Key are pressed one more time, show room mode will be canceled.
3) If show room mode is selected, blinks "OF-OF" on the temperature setting display of the panel and it indicates the refrigerator has entered the show room mode.
4) During show room mode, if fresh food and freezer compartments sensors are higher than 65 show room mode will be canceled automatically and freezing operation will be returned. (There is no buzzer sound when the show room mode is canceled by the temperature)
5) Operation contents of show room mode
   - Display, Fan motor and etc operate normally, not to operate compressor only.
   - Defrost is not operated. (including french heater)
   - Display function of the initial real temperature is finished.
   - Under the condition of show room mode, show room mode will be operated when Power On after Power OFF.

4-1-6. Option setting function

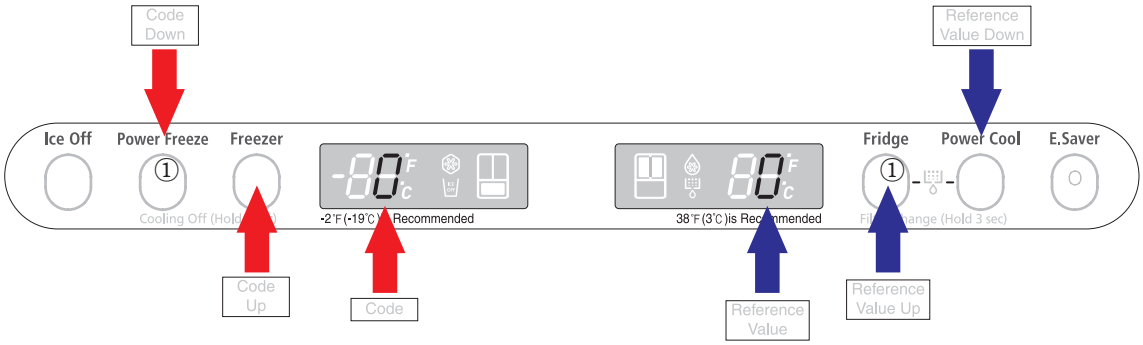
- If Freezer Key + Fridge Key are pressed simultaneously for 12 seconds during normal operation, fresh food and freezer compartments temperature display will be changed to option setting mode.

KEY operation method for changing to option mode



① If Freeze Key + Fridge Key are pressed simultaneously for 12 seconds, option setting mode will be started.

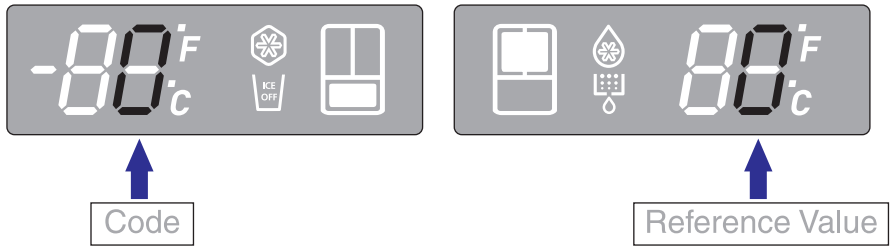
KEY control method after converting to option mode



∗ Key control in option mode

Power Freeze Key	Code Down key
Freezer Key	Code Up key
Power Cool key	Reference Value down key
Fridge key	Reference Value Up key

- If the display changes to option setting mode, all displays will be off except freezer and fridge compartments temperature display as below.
  (Fresh food and freezer compartments case will be explained only because all options are operated with the same method according to the option table.)

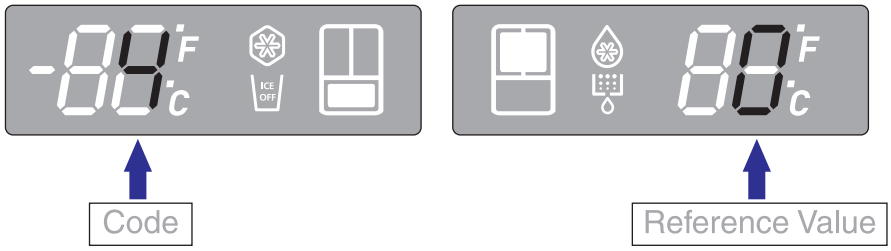


1) For example, if you want to change freezer compartment standard temperature to 28.4°F(-2°C) by operating option, do as below.
   This function is for changing the standard temperature.
   In -2°F(-19°C) of current temperature of freezer compartment, if you make the temperature lower to 28.4°F(-2°C) by the option, the standard temperature would be controlled -6°F(-21°C)
   Therefore, if you change the setting of temperature option to -2°F(-19°C) on the panel, the appliance will be operated with -6°F(-21°C).
   It means that standard temperature is controlled 28.4°F(-2°C) less than setting temperature in the display.

NOTE

Basically, option function has cleared data at shipping process.
Therefore, almost all setting value are "0".
Check the product information manual or specifications because setting value could be changed particularly for the purpose of improving product at mass producing process.

2) After changing to the option mode, fresh food compartment "0" , freezer compartment "0" will be displayed. (Basically fresh food compartment "0", freezer "0" would be set at shipping process, but setting value could be changed for the purpose of improving product at mass producing process.)
   - If fresh food compartment "0" shows only, temperature reference value of freezer compartment will be set and current freezer compartment temperature code will be displayed on the freezer temperature display.
3) If freezer compartment "4" is set as below freezer compartment code after fresh food compartment "0 is set, standard temperature of freezer compartment will be lower than 28.4℉(-2.0°C).
   (Refer to the picture "changing the freezer compartment temperature")



   : If you wait for 20 seconds after completing the setting, MICOM will save the setting value to the EEPROM and normal display will be returned and the option setting mode will be canceled.
4) Option changing method as above is the same as all RF266/265** model.
5) By the same method as above, it is possible to control the fresh food compartment temperature, water supply, ice-maker harvest temperature/time, defrost return time, hysteresis by temperature, notch gap by temperature etc.
6) Option function is set in the EEPROM at shipping process in the factory.
   You would better not to change the option of your own.
   Completing the setting is that option function return to normal display after 20 seconds.
   Do not turn off the appliance before returning to the normal display mode.

NOTE

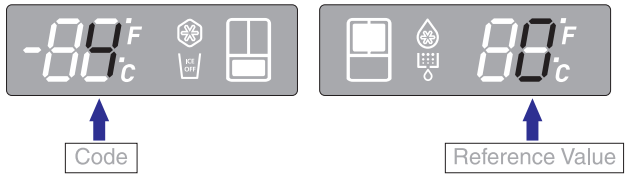
Option setting function exists in the other items.
We will skip the explanation of the other functions by the option because it is associated with refrigerator control function and is not needed at SERVICE.
(Please do not set the other options except above SERVICE Manual.)

4-1-7. Option TABLE

1) Temperature changing table of freezer compartment

Set item	Freezer Temp Shift
MODEL	RF265/266/RF26NB
Reference Value	Fridge Room 7-SEG
	0

Setting value FZ compartment Code	Temp. compensation
0	32°F(0.0°C)
1	31.1°F(-0.5°C)
2	30.2°F(-1.0°C)
3	29.3°F(-1.5°C)
4	28.4°F(-2.0°C)
5	27.5°F(-2.5°C)
6	26.6°F(-3.0°C)
7	25.7°F(-3.5°C)
8	32.9°F(+0.5°C)
9	33.8°F(+1.0°C)
10	34.7°F(+1.5°C)
11	35.6°F(+2.0°C)
12	36.5°F(+2.5°C)
13	37.4°F(+3.0°C)
14	38.3°F(+3.5°C)
15	39.2°F(+4.0°C)



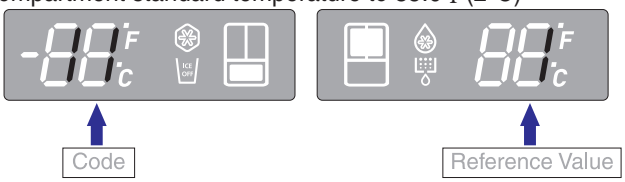
ex) If you want to change the freezer standard temperature to 28.4°F(-2°C)

2) Temperature changing table of fresh food compartment

Set item	Freezer Temp Shift
MODEL	RF265/266/RF26NB
Reference Value	Fridge Room 7-SEG
	1

Setting value FZ compartment Code	Temp. compensation
0	32°F(0.0°C)
1	31.1°F(-0.5°C)
2	30.2°F(-1.0°C)
3	29.3°F(-1.5°C)
4	28.4°F(-2.0°C)
5	27.5°F(-2.5°C)
6	26.6°F(-3.0°C)
7	25.7°F(-3.5°C)
8	32.9°F(+0.5°C)
9	33.8°F(+1.0°C)
10	34.7°F(+1.5°C)
11	35.6°F(+2.0°C)
12	36.5°F(+2.5°C)
13	37.4°F(+3.0°C)
14	38.3°F(+3.5°C)
15	39.2°F(+4.0°C)

ex) If you want to change the Fresh Food compartment standard temperature to 35.6°F(2°C)



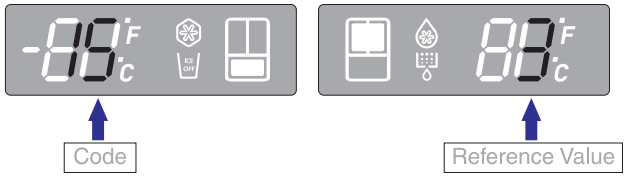
■ Below options are applied to the applicable model with ice maker.
Do not set below options to the model without Ice Maker.

3) To change the ice maker harvest waiting time

This option controls the harvest waiting time for ice dispensing from Ice maker

Set item	ICE MAKER waiting time of ice making
Reference Value	Fridge Room 7-SEG
	3

Setting value FZ compartment Code	Temp. compensation (mins)
0	58
1	57
2	56
3	55
4	54
5	53
6	52
7	51
8	50
9	49
10	48
11	47
12	46
13	45
14	59
15	60



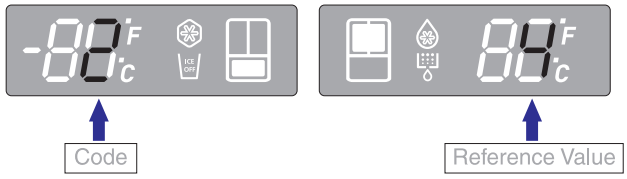
ex) If you want to change the waiting time to 60 minutes

4) To change the ice making sensor temperature of ice maker

This option Controls the standard temperature of judgment that is checking whether ice of ice maker is frozen completely or not.

Set item	ICE MAKER control the temperature of ice making
Reference Value	Fridge Room 7-SEG
	4

Setting value FZ compartment Code	Temp. compensation (mins)
0	1.4℉(-17°C)
1	3.2℉(-16°C)
2	5.0℉(-15°C)
3	6.8℉(-14°C)
4	8.6℉(-13°C)
5	10.4℉(-12°C)
6	-0.4℉(-18°C)
7	2.2℉(-19°C)



ex) If you want to change the ice making sensor temperature to 5.0℉(-15°C)

4-2) Diagnostic method according to the trouble symptom(Flow Chart)

DATA1.Temperature table
Resistance value and MICOM port voltage of sensor according to the temperature
SENSOR CHIP : based on PX41C

˚C	˚F	Voltage	Resistance	˚C	˚F	Voltage	Resistance	˚C	˚F	Voltage	Resistance
-50	-58	4.694	153319	-5	23	3.107	16419	40	104	1.153	2997
-49	-56.2	4.677	144794	-4	24.8	3.057	15731	41	105.8	1.124	2899
-48	-54.4	4.659	136798	-3	26.6	3.006	15076	42	107.6	1.095	2805
-47	-52.6	4.641	129294	-2	28.4	2.955	14452	43	109.4	1.068	2714
-46	-50.8	4.622	122248	-1	30.2	2.904	13857	44	111.2	1.040	2627
-45	-49	4.602	115631	0	32	2.853	13290	45	113	1.014	2543
-44	-47.2	4.581	109413	1	33.8	2.802	12749	46	114.8	0.988	2462
-43	-45.4	4.560	103569	2	35.6	2.751	12233	47	116.6	0.963	2384
-42	-43.6	4.537	98073	3	37.4	2.700	11741	48	118.4	0.938	2309
-41	-41.8	4.514	92903	4	39.2	2.649	11271	49	120.2	0.914	2237
-40	-40	4.490	88037	5	41	2.599	10823	50	122	0.891	2167
-39	-38.2	4.465	83456	6	42.8	2.548	10395	51	123.8	0.868	2100
-38	-36.4	4.439	79142	7	44.6	2.498	9986	52	125.6	0.846	2036
-37	-34.6	4.412	75077	8	46.4	2.449	9596	53	127.4	0.824	1973
-36	-32.8	4.385	71246	9	48.2	2.399	9223	54	129.2	0.803	1913
-35	-31	4.356	67634	10	50	2.350	8867	55	131	0.783	1855
-34	-29.2	4.326	64227	11	51.8	2.301	8526	56	132.8	0.762	1799
-33	-27.4	4.296	61012	12	53.6	2.253	8200	57	134.6	0.743	1745
-32	-25.6	4.264	57977	13	55.4	2.205	7888	58	136.4	0.724	1693
-31	-23.8	4.232	55112	14	57.2	2.158	7590	59	138.2	0.706	1642
-30	-22	4.199	52406	15	59	2.111	7305	60	140	0.688	1594
-29	-20.2	4.165	49848	16	60.8	2.064	7032	61	141.8	0.670	1547
-28	-18.4	4.129	47431	17	62.6	2.019	6771	62	143.6	0.653	1502
-27	-16.6	4.093	45146	18	64.4	1.974	6521	63	145.4	0.636	1458
-26	-14.8	4.056	42984	19	66.2	1.929	6281	64	147.2	0.620	1416
-25	-13	4.018	40938	20	68	1.885	6052	65	149	0.604	1375
-24	-11.2	3.980	39002	21	69.8	1.842	5832	66	150.8	0.589	1335
-23	-9.4	3.940	37169	22	71.6	1.799	5621	67	152.6	0.574	1297
-22	-7.6	3.899	35433	23	73.4	1.757	5419	68	154.4	0.560	1260
-21	-5.8	3.858	33788	24	75.2	1.716	5225	69	156.2	0.546	1225
-20	-4	3.816	32230	25	77	1.675	5039	70	158	0.532	1190
-19	-2.2	3.773	30752	26	78.8	1.636	4861	71	159.8	0.519	1157
-18	-0.4	3.729	29350	27	80.6	1.596	4690	72	161.6	0.506	1125
-17	1.4	3.685	28021	28	82.4	1.558	4526	73	163.4	0.493	1093
-16	3.2	3.640	26760	29	84.2	1.520	4369	74	165.2	0.481	1063
-15	5	3.594	25562	30	86	1.483	4218	75	167	0.469	1034
-14	6.8	3.548	24425	31	87.8	1.447	4072	76	168.8	0.457	1006
-13	8.6	3.501	23345	32	89.6	1.412	3933	77	170.6	0.446	978
-12	10.4	3.453	22320	33	91.4	1.377	3799	78	172.4	0.435	952
-11	12.2	3.405	21345	34	93.2	1.343	3670	79	174.2	0.424	926
-10	14	3.356	20418	35	95	1.309	3547	80	176	0.414	902
-9	15.8	3.307	19537	36	96.8	1.277	3428	81	177.8	0.404	877
-8	17.6	3.258	18698	37	98.6	1.253	3344	82	179.6	0.394	854
-7	19.4	3.208	17901	38	100.4	1.213	3204	83	181.4	0.384	832
-6	21.2	3.158	17142	39	102.2	1.183	3098	84	183.2	0.375	810

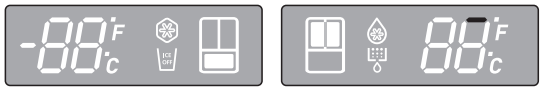
TROUBLESHOOTING

4-2-1. If the trouble is detected by self-diagnosis

- The error of sensor will be displayed on the front of display.
  when the error of sensor is detected at initial power ON, the appliance will not operated and display of abnormal sensor part will blink.
- The appliance will not stop operating when the error of sensor is detected during operation of the appliance.
  But normal freezing might be not operated if the appliance is operated by the emergency operation mode. You would better to check the appliance according to the self-diagnosis of the manual.

1) If ICE Maker Sensor has trouble

ERROR Code



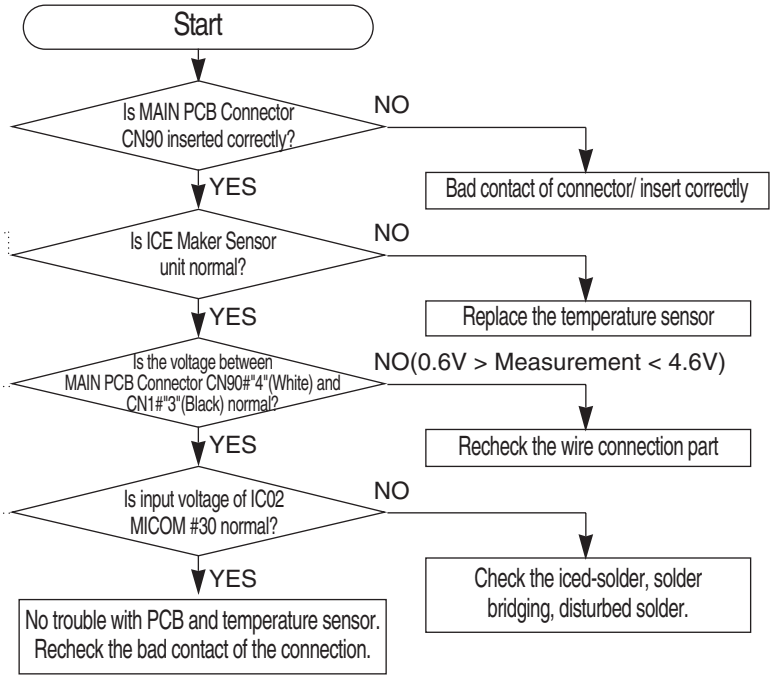
DATA1.
Temperature table

** Measuring point of resistance value according to Sensor **
ICE MAKER : CN90#3 ↔#1 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble

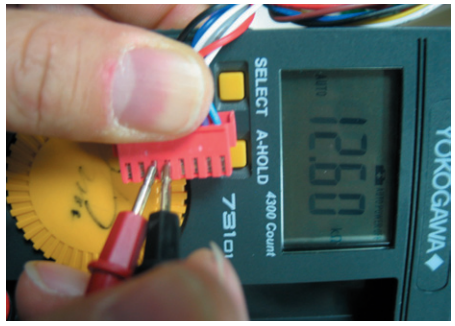
Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
ICE Maker	Connector CN90#"4"(White) and CN1#"3"(Black) PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	

Measuring voltage of IC02 MICOM #30, CN90#4(White) and CN1#3(Black) from PCB typical Ground part are similar.

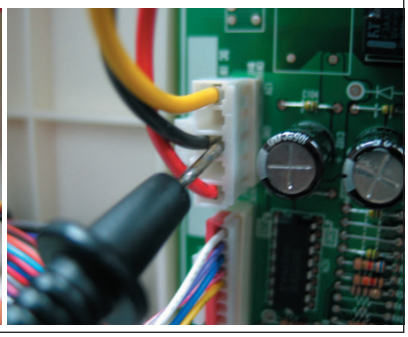


☞ Checking method of ICE Maker Sensor resistance CN90# "3(White) ↔ #4"(White)
- Compare the temperature table after the measure.



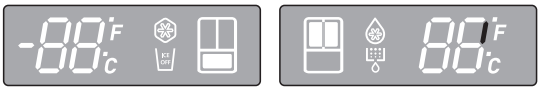
☞ Checking method of ICE Maker Sensor resistance
- Measure the voltage of Sensor Check Point #6(IC02 MICOM #30) on PCB or CN90#4(White) ↔CN1#3(Black)
- Compare the temperature table after the measure.
  Measuring voltage of CN90#4(White) ↔ CN1#3(Black) are below.

typical PCB Ground
CN1#3(Black)



2) If R Sensor has trouble

ERROR Code



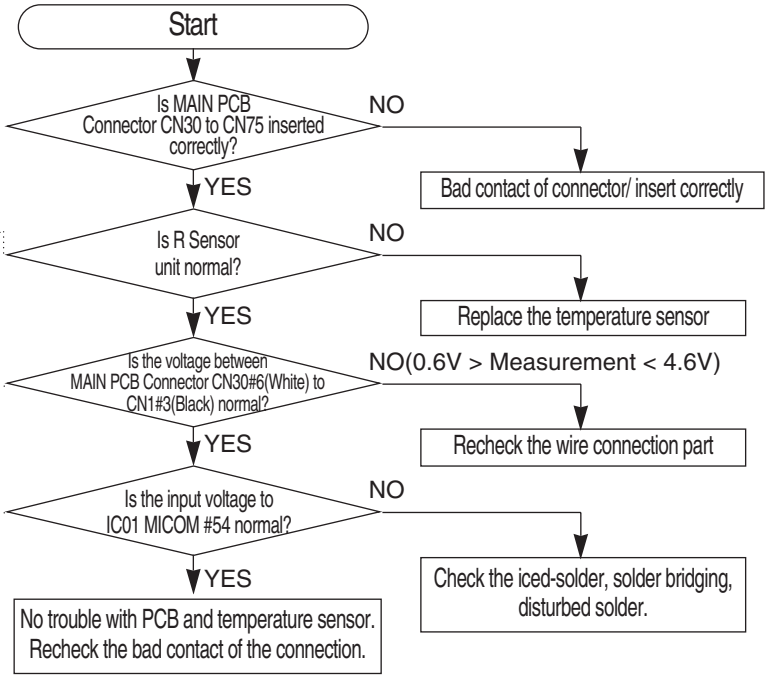
DATA1.
Temperature table

** Measuring point of resistance value according to Sensor **
R : CN30#6 ↔ CN75#1 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble

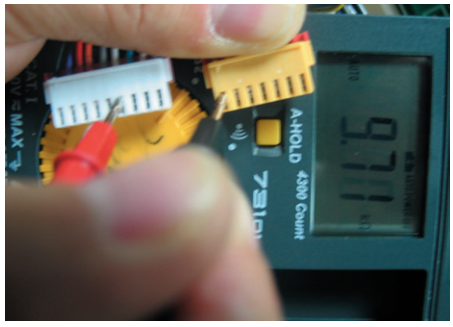
Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
R	Connector CN30#6(White) to CN1#3(Black) PCB typical Ground
Voltage measured between 4.6V ~ 0.6V.	

Measuring voltage IC01 MICOM #54, CN30#6(White) and CN1#3(Black) from PCB typical Ground part are similar.

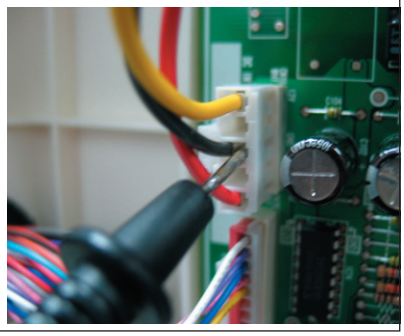


☞ Checking method of R Sensor resistance
CN30#6(White) ↔ CN75#1(Gray) Compare the temperature table after the measure.



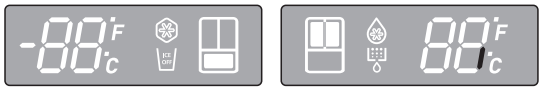
☞ Checking method of R Sensor resistance
- Measure the voltage of Sensor Check Point #3(IC01 MICOM #54) on PCB or CN30#6(White) ↔ CN1#3(Black)
- Compare the temperature table after the measure.
Measuring voltage of CN30#6(White)°ICN1#3(Black) are below.

typical PCB Ground
CN#3(Black)



3) If R DEF Sensor has trouble

ERROR Code



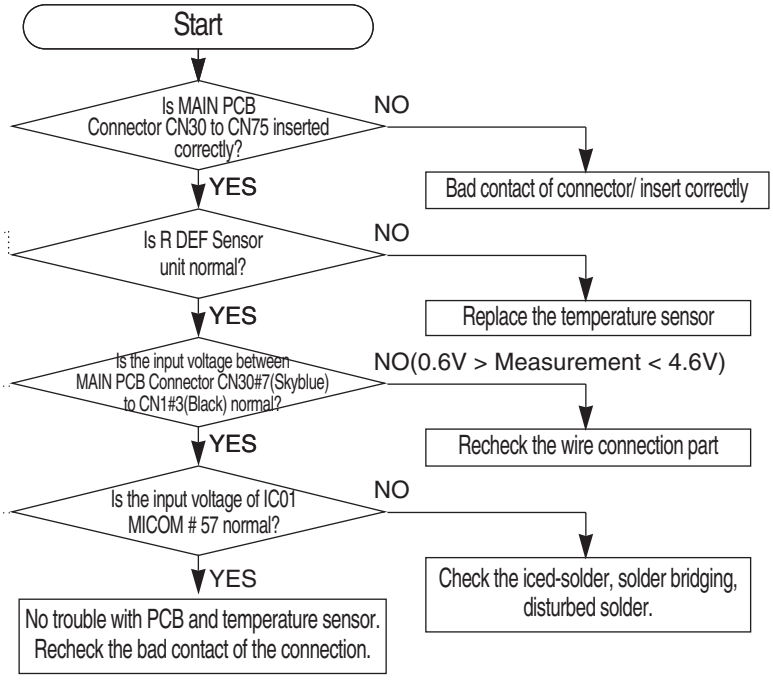
DATA1.
Temperature table

** Measuring point of resistance value according to Sensor **
R-DEF : CN30#7 ↔ CN75#1 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble

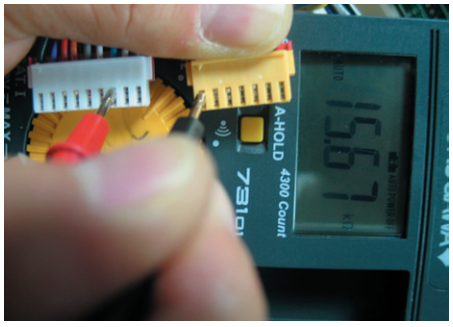
Refer to circuit diagram in the manual

Sensor MICOM/Connector Number	
R DEF	Connector CN30-"7"(Sky-blue) and CN1-"3"(Black) PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	

Measuring voltage of IC01 MICOM #57, CN30#7(Sky-blue) and CN1#3(Black) from PCB typical Ground part are similar.



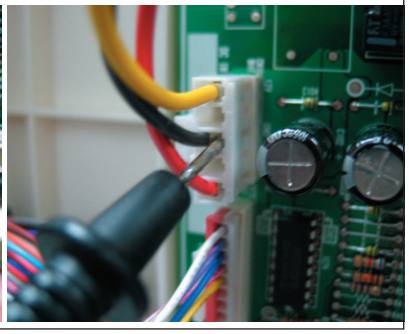
☞ Checking method of R Sensor resistance
CN30#7(Sky-blue) ↔ CN75#1(Gray)
- Compare the temperature table after the measure.



☞ Checking method of R DEF Sensor resistance
- Measure the voltage of Sensor Check Point #4(IC01 MICOM #57) on PCB or CN30#7Sky-blue)↔CN1#3(Black)
- Compare the temperature table after the measure.

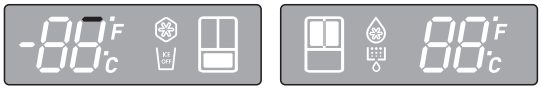
Measuring voltage of CN30#7(Sky-blue) ↔ CN1#3(Black) are below.

typical PCB Ground
CN1#3(Black)



4) If Ambient Sensor has trouble

ERROR Code



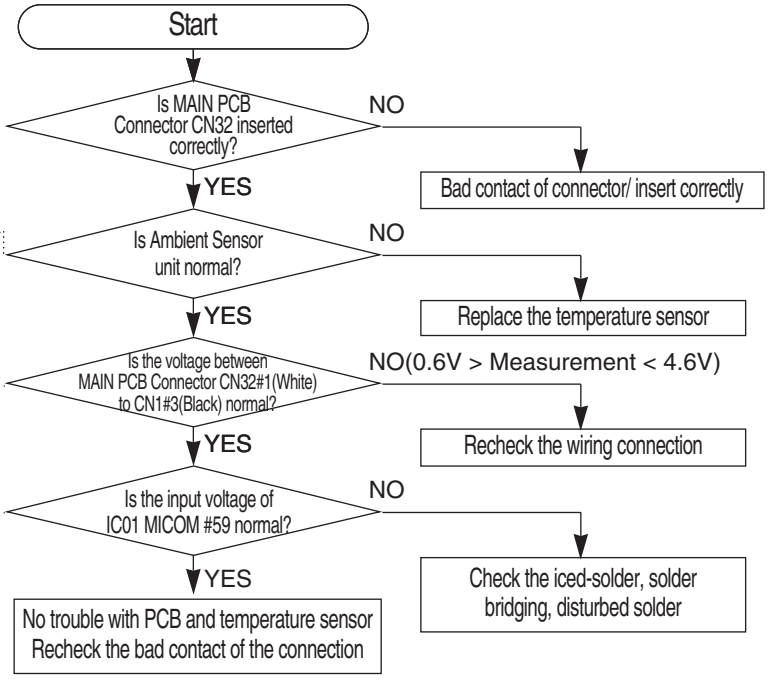
DATA1.
Temperature table

** Measuring point of resistance value according to Sensor **
Ambient : CN32#1 ↔ #4 measuring resistance value
** Placed in the right top table of upper hinge.
** 0 Ω : Short trouble / ∞ Ω : Open trouble

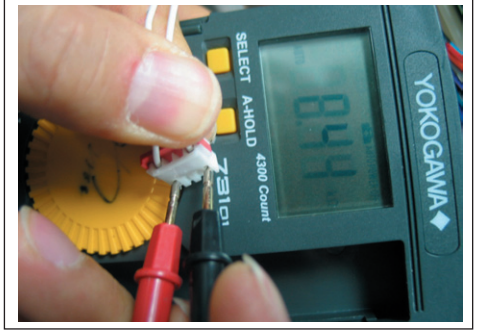
Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
Ambient	Connector CN32#1(White) to CN1#3(Black) PCB typical Ground
Voltage measured between 4.6V ~ 0.6V.	

Measuring voltage of IC01 MICOM #59, CN32#1(White) and CN1#3(Black) from PCB typical Ground part are similar.



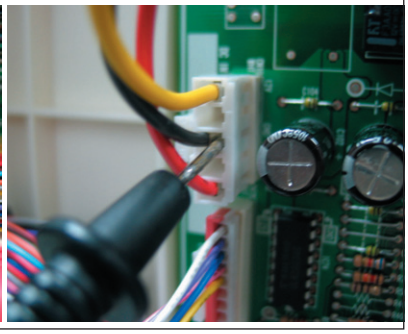
☞ Checking method of Ambient Sensor resistance
CN32#1(White) ↔ #4(White)
- Compare the temperature table after the measure



☞ Checking method of Ambient Sensor voltage
- Measure the voltage of Sensor Check Point #7(IC01 MICOM #59) on PCB or CN32#1(White) ↔ CN1#3(Black)
- Compare the temperature table after the measure

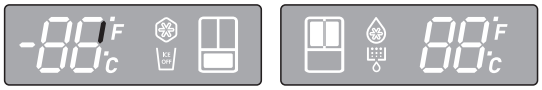
Measuring voltage of CN32#1(White) ↔ CN1#3(Black) are below

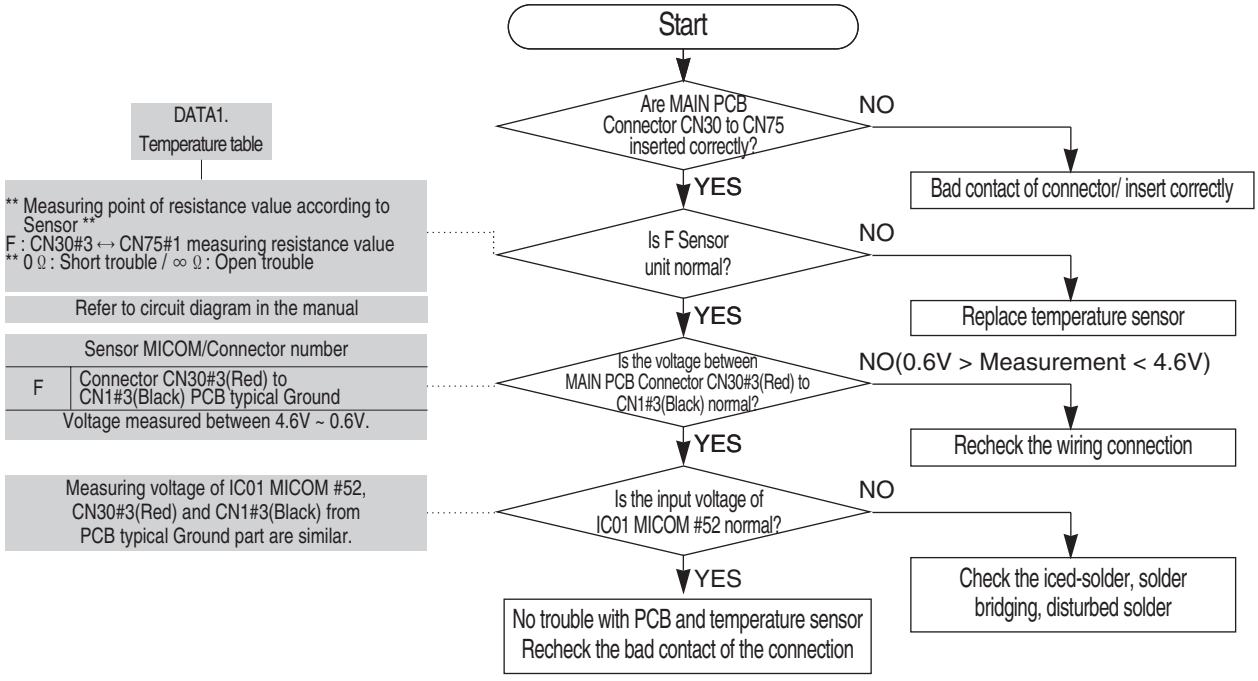
typical PCB Ground
CN1#3(Black)



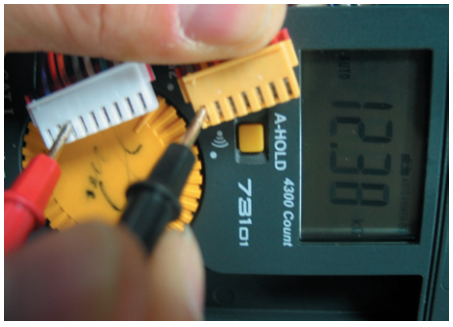
5) If F Sensor has trouble

ERROR Code





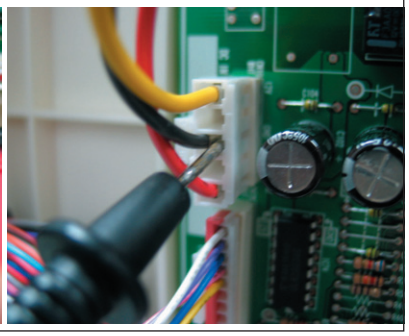
☞ Checking method of F Sensor resistance
CN30#3(Red) ↔ CN75#1(Gray)
- Compare the temperature table after the measure



☞ Checking method of F Sensor voltage
- Measure the voltage of Sensor Check Point #1(IC01COM #52) on PCB or CN30#3(Red) ↔ CN1#3(Black)
- Compare the temperature table after the measure

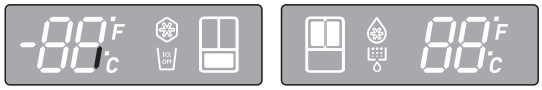
Measuring voltage of CN30#3(Red) ↔ CN1#3(Black) are below.

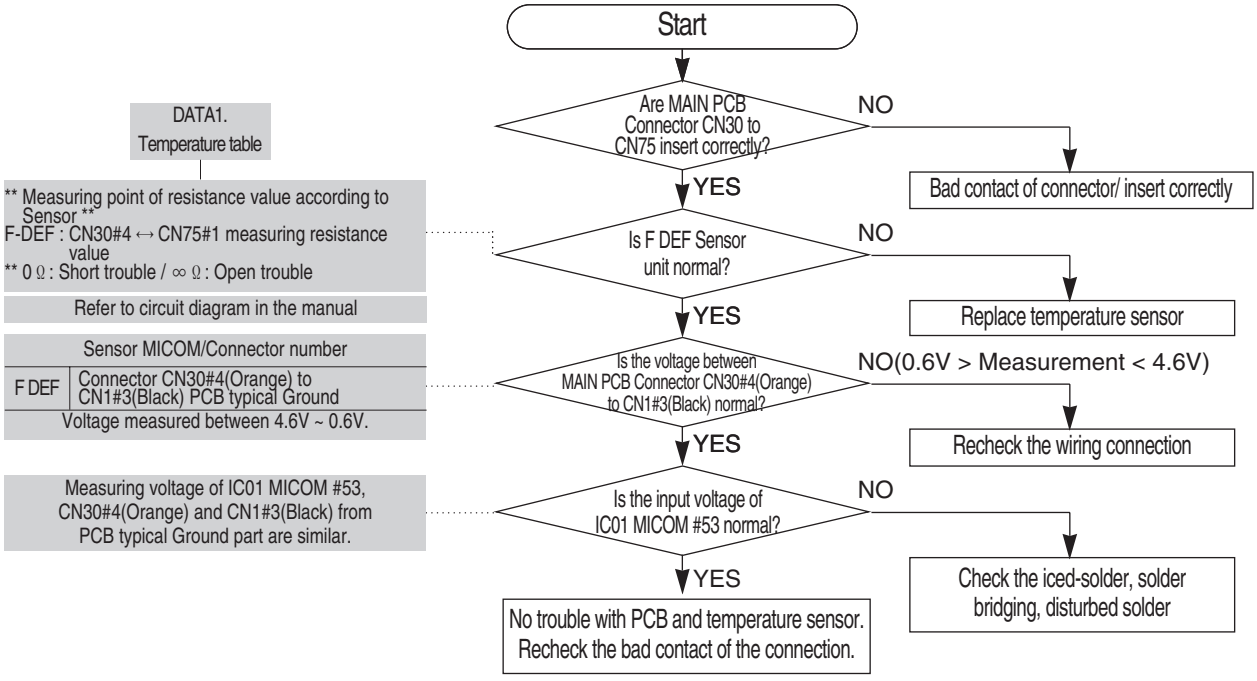
typical PCB Ground
CN1#3(Black)



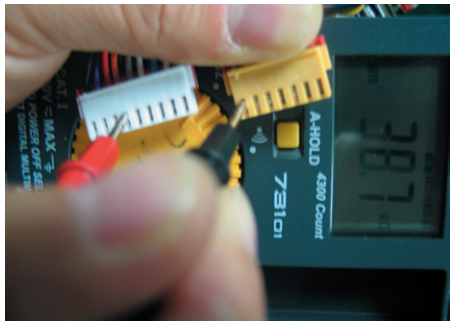
6) If F DEF Sensor has trouble

ERROR Code





☞ Checking method of F DEF Sensor resistance
CN30#4(Orange) ↔ CN75#1(Gray)
- Compare the temperature table after the measure.



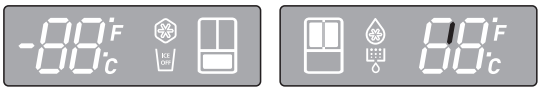
☞ Checking method of F DEF Sensor voltage
- Measure the voltage of Sensor Check Point #1(IC01 MICOM #52) on PCB or CN30#4(Orange) ↔ CN1#3(Black)
- Compare the temperature table after the measure

Measuring voltage of CN30#4(Orange) ↔ CN1#3(Black) are below

typical PCB Ground
CN1#3(Black)

7) If Pantry Sensor has trouble

ERROR Code



DATA1.
Temperature table

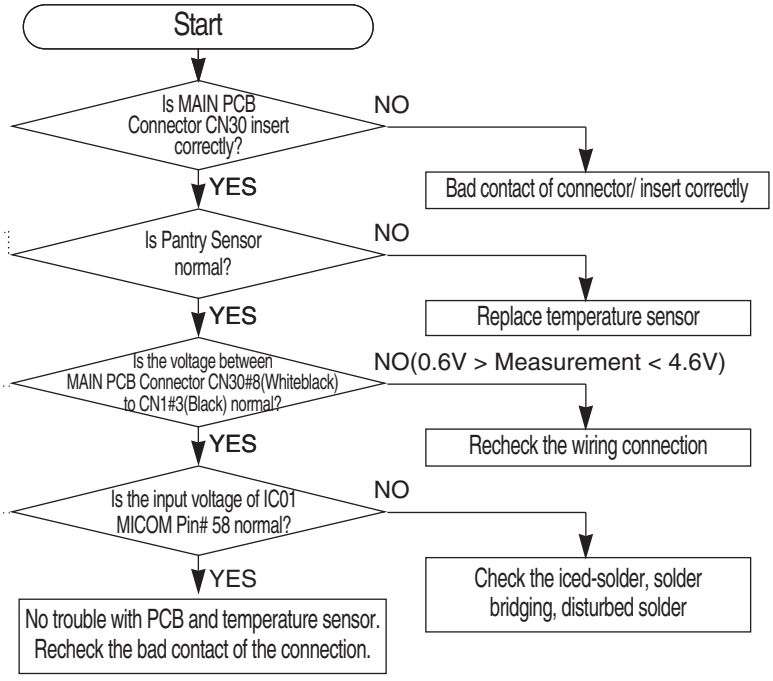
** Measuring point of resistance value according to Sensor **
Pantry : CN30#8 ↔#9 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble

Refer to circuit diagram in the manual

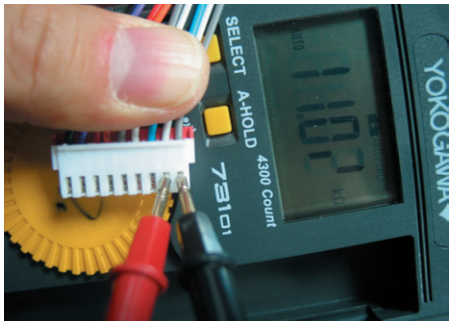
Sensor MICOM/Connector number	
Pantry	Connector CN30#8(White-black) to CN1#3(Black) PCB typical Ground

Voltage measured between 4.6V ~ 0.6V.

Measuring voltage of IC01 MICOM #58, CN30#8(White-black) and CN1#3(Black) from PCB typical Ground part are similar.



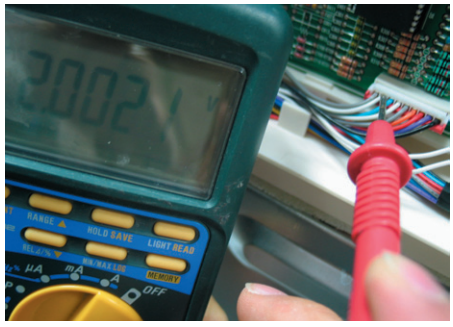
☞ Checking method of Pantry Sensor resistance
CN30#8(White-black) ↔ #9(Gray)
- Compare the temperature table after the measure

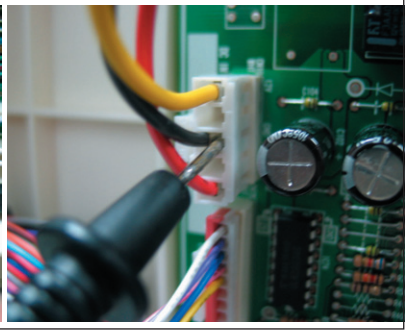


☞ Checking method of Pantry Sensor voltage
- Measuring voltage of Sensor Check Point #5(IC01 MICOM #58) on PCB or CN30#8(White-black) ↔ CN1#3(Black)
- Compare the temperature table after the measure

Measuring voltage of CN30#8(white-black)↔CN1#3(Black) are below

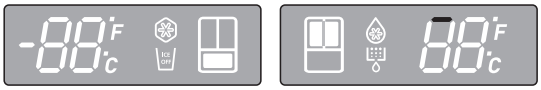
typical PCB Ground
CN1#3(Black)

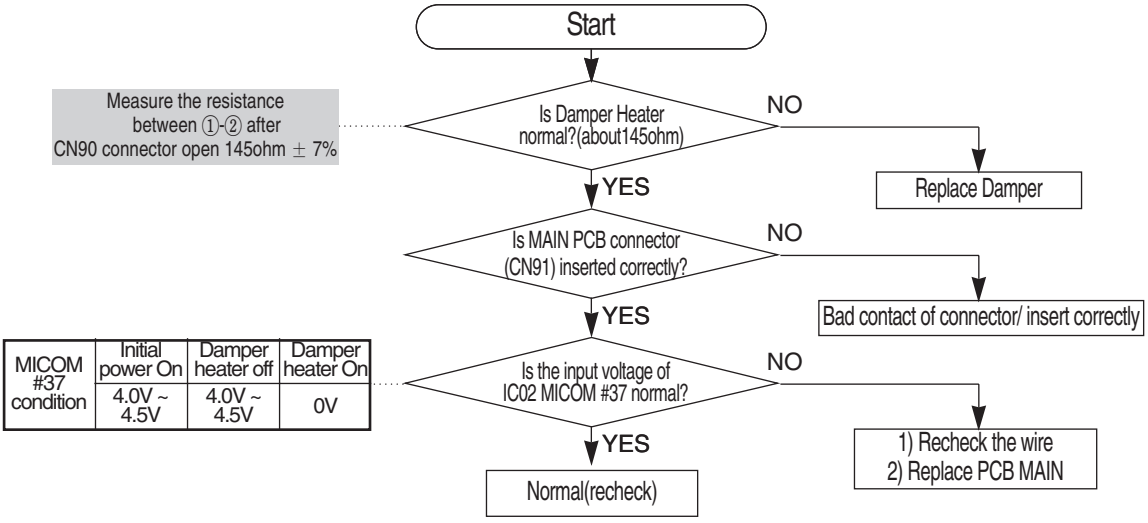




8) If Pantry Room Damper Heater has trouble

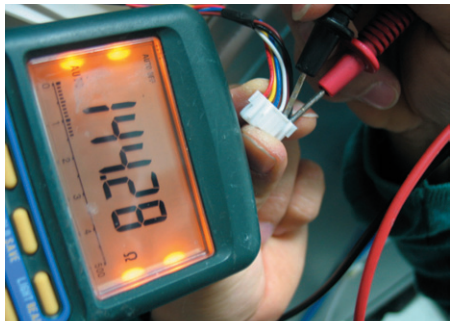
ERROR Code





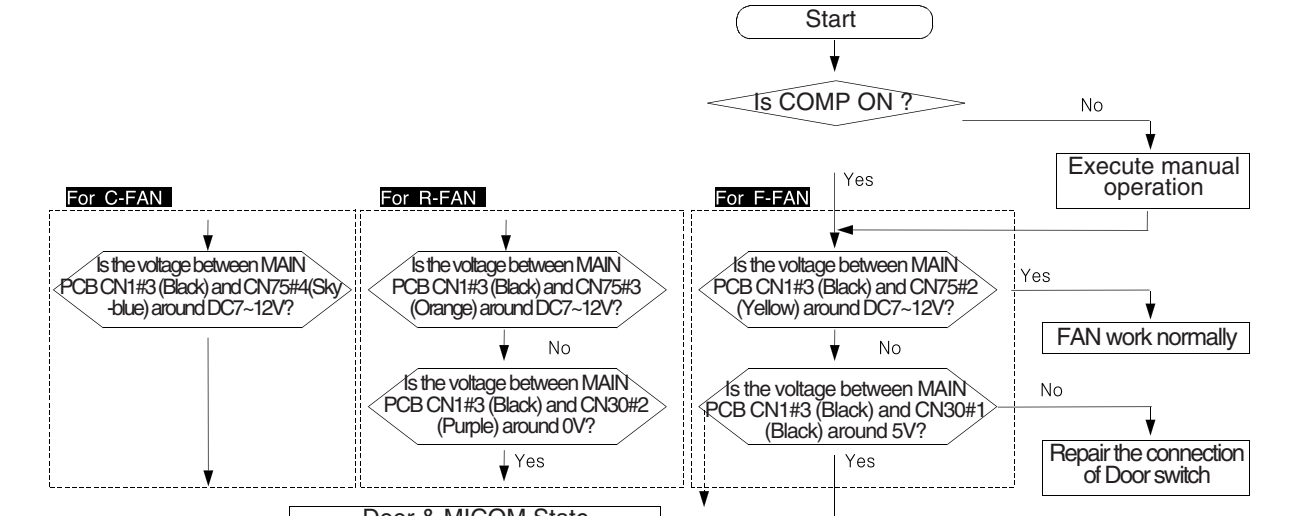
MICOM #37 condition	Initial power On	Damper heater off	Damper heater On
	4.0V ~ 4.5V	4.0V ~ 4.5V	0V

☞ Checking method of Pantry Room Damper resistance CN91#1(Black) ↔ #2(Brown)
** ∞ Ω : Open(wire disconnection, heater disconnection) trouble 0 Ω : Short trouble



4-2-2. If FAN does not operate

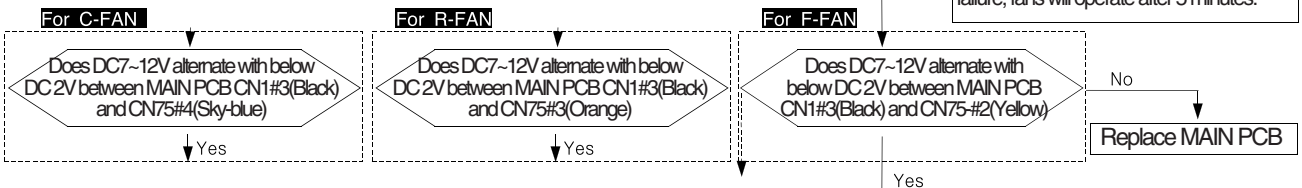
- The refrigerator of this model has BLDC FAN motor. BLDC motor is driven by DC 7~12V.
- On the normal condition of COMP ON, it operates together with F-FAN motor.
  If door is opened and closed once at a high ambient temperature, it will be operated after 1 minute delay.
  Therefore, you are advised not to taken it for an error.
-. If there is a trouble, you should select the self-diagnostic function to check the trouble before power off.

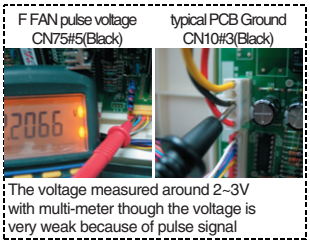


Door & MICOM State		
Door	F MICOM (#50)	R MICOM(#3) Right and Left
Close	5V(High)	0V(Low)
Open	0V(Low)	5V(High)

Power ON with 5 minutes delay after power OFF. For preventing the over load of compressor)

In initial power to appliance, the compressor and fans of fresh food/ freezer, compressor fan operate. If freezer temperature is sensed of 41°F by momentary power failure, fans will operate after 5 minutes.





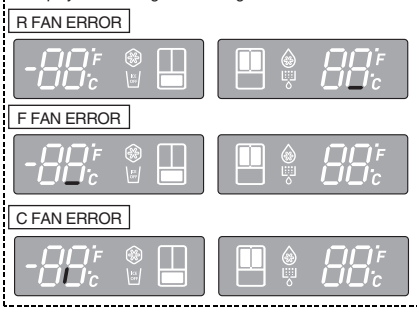
The voltage measured around 2~3V with multi-meter though the voltage is very weak because of pulse signal

Reference

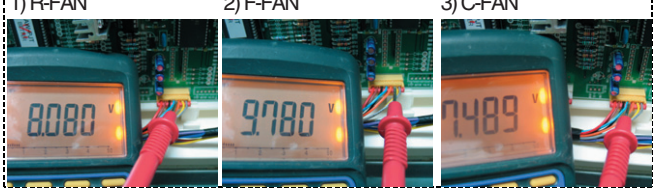
CN75-5(F),6(R),7(C)will generate the pulse signal when motor rotates.
These signals will be inputted into MICOM.
Unless signals are not inputted during motor operating, will be ON 10 seconds after fan Off. But if signals are not still entered, the above operation will restart four times more.
If signals are not entered continuously, the motor will be restarted after 10 seconds.
This function is effective when the normal operation of motor would be restrained by foreign matters such as ice.

◆ Expected causes
① Check that if FAN-MOTOR has failure itself.
② Check that if wiring connection has bad contact.
③ Check the input of the fan motor rotation pulse when motor fan operates.

☞ Display for checking the self-diagnostic function



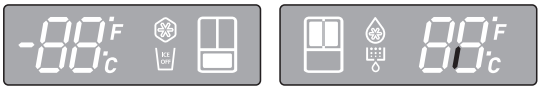
☞ Checking method of R,F,C FAN Motor voltage
The voltage between PCB typical Ground CN1-"3"(Black) and
R FAN ; CN75#2(Yellow) shall be less than DC 7~12V.
F FAN ; CN75#3(Orange) shall be less than DC 7~12V.
C FAN ; CN75#4(Sky-blue) shall be less than DC 7~12V.
- Recheck if resistance values are different after measuring.

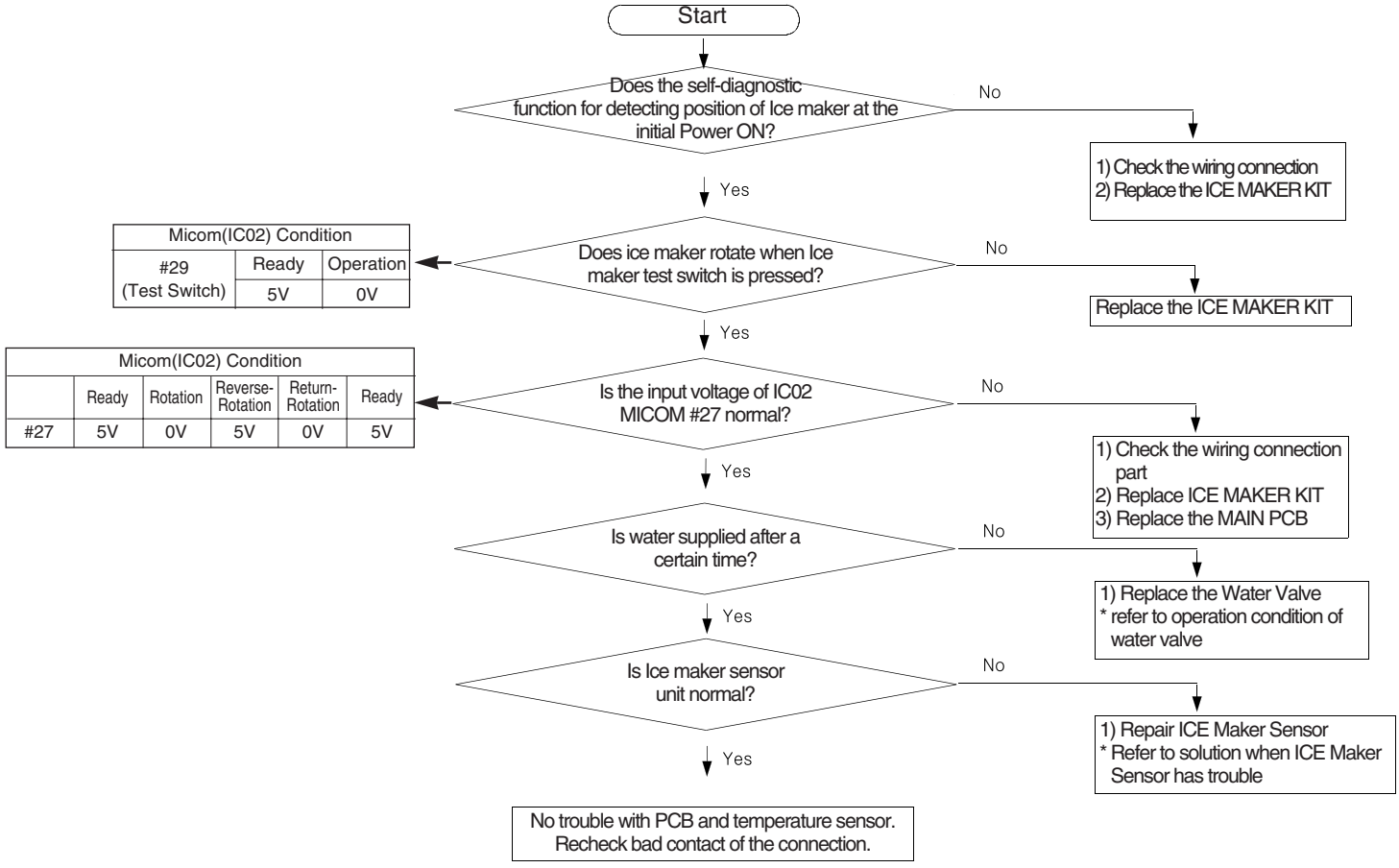


4-2-3. If ICE MAKER does not operate

1. Water is automatically supplied to the Ice maker by temperature & time and ice maker dispenses cubed or crushed ice.
2. Power is applied to one of its wires. So, refer to its exploded diagram when disassembling.
3. The operation of the Ice maker shall be checked after pressing the Ice maker test switch. (Freezer compartment Ice Maker) It is not possible to check when the power is disengaged.

Function ERROR Code



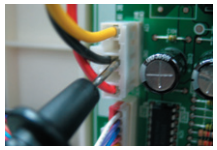


☞ Checking method of ICE Maker voltage
The voltage between PCB typical Ground CN1#3(Black) and
1) Test switch operation(press selected) ; CN90#5(Gray) shall be DC 0V.
Waiting for test switch operation ; CN90#5(Gray) shall be less than DC 5V.

1)Test Switch operating

1)Test Switch waiting

typical PCB Ground CN1-"3"(Black)



☞ Checking method of ICE Maker voltage
The voltage between PCB typical Ground CN1#3(Black) and
2) IC02 MICOM #27 voltage ; wait(5V) → rotate clockwise(0V)
→ rotate counterclockwise(5V) → horizontal condition(0V) → wait(5V)
* The voltage of MICOM #27 and Connector CN90#7(Purple) are same.

4-2-4. If defrost does not operate (F,R DEF Heater)

- If defrost has trouble, select the self-diagnostic function to detect the error of defrost heater before Power Off. (Check the function with refer to the self-diagnostic function)

R DEF ERROR

F DEF ERROR

Measuring point of resistance value according to heater
F-DEF : CN70#9(Brown) ↔ CN71#9(Orange) measuring resistance value(55(220) ohm ± 7%)
R-DEF(Ice Pipe parallel) : CN70#7(White)↔N71#9(Orange) measuring resistance value(105(407) ohm ± 7%)
** 0 Ω : Short trouble / ∞ Ω : Open(bimetal, heater) trouble

**Measuring point of resistance value according to sensor **
F-DEF : CN30#4 ↔ CN75#1 measuring resistance value
R-DEF : CN30#7 ↔ CN75#1 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble

Resistance value of sensor according to temperature		
86°F(30℃)	4.22㏀	If you need the temperature with detail, refer to DATA1. temperature table
68°F(20℃)	6.05㏀	
50°F(10℃)	8.87㏀	
32°F(0℃)	13.29㏀	
14°F(-10℃)	20.42㏀	
-4°F(-20℃)	32.23㏀	
-22°F(-30℃)	52.41㏀	

**Measuring point of resistance value according to sensor **
F-DEF : CN30#4 ↔ CN75#1 measuring resistance value
R-DEF : CN30#7 ↔ CN75#1 measuring resistance value
** 0V: Short trouble / 5V: Open trouble

Start

Are the all deforst heater normal?
- No → Check the bimetal, heater disconnection, wiring connection etc.
- Yes ↓

Is defrost sensor by self-diagnostic normal?
- No → Refer to self-diagnostic function in the manual / Replace the applicable sensor
- Yes ↓

Is the temperature of defrost sensor lower than 53.6°F(12°C)?
- No → manual operation for a certain time
- Yes ↓

Manual defrosting of fresh food and freezer compartments operate simultaneously.

If Power Freeze Key + Fridge Key are pressed simultaneously for 8 seconds and then select any key, 3rd test mode(manual defrosting) will be operated.

Is power applied to each defrost heaters?
- No → Is connection terminal of MAIN PCB part normal?
- Yes ↓

Does the system return to cooling operation after heating for specified time?
- No → Recheck the applicable sensor.
- Yes → Normal

Reference If defrost sensor temperatures of fresh food and freezer compartments are higher than 50°F(10℃), 53.6°F(12℃) by the heating from heater, heating would be finished and will return to cooling operation after a pause.

Is connection terminal of MAIN PCB part normal?
- No → Repair connection terminal
- Yes ↓

Check bimetal, heater itself, disconnection etc.

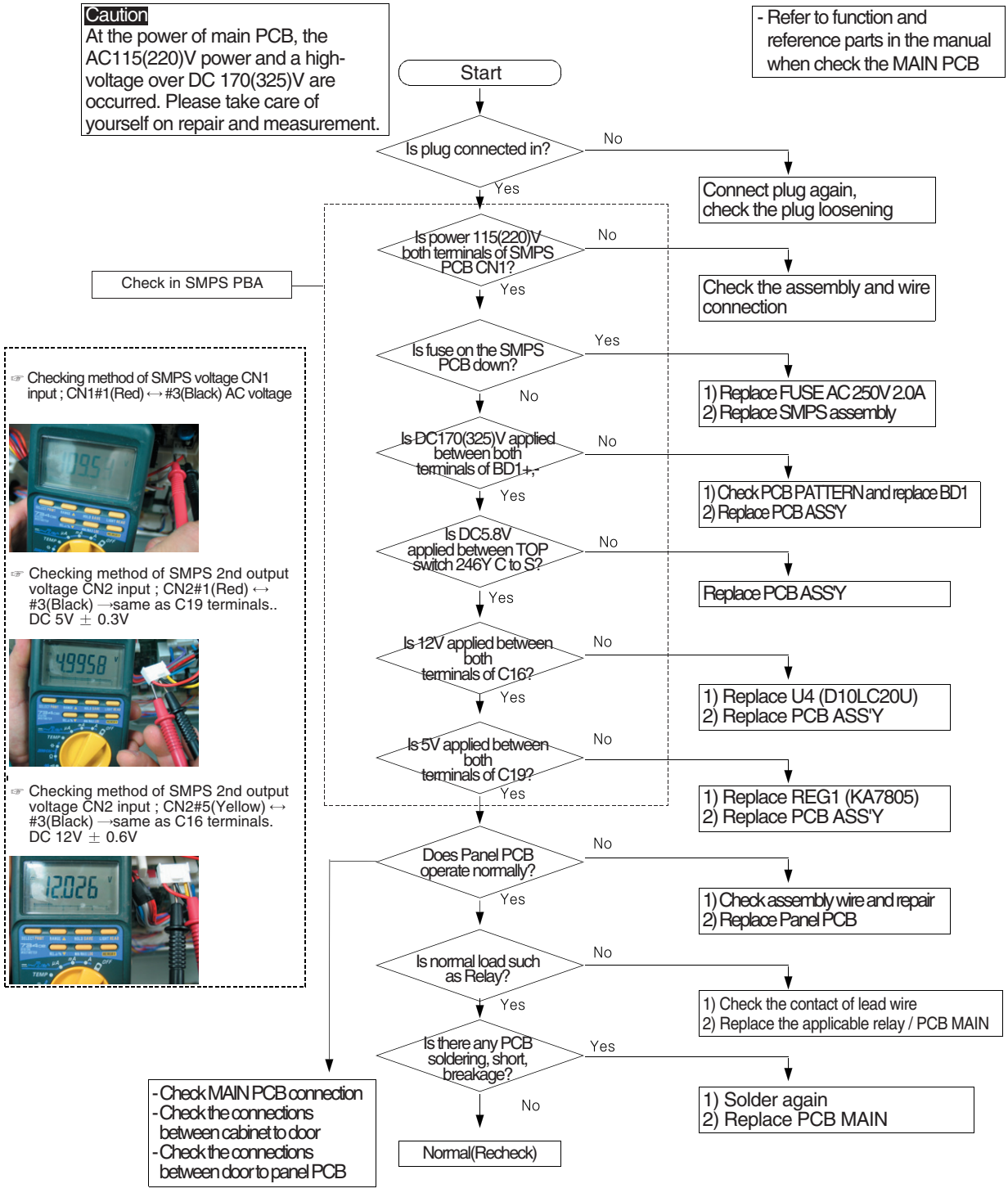
Replace failure Relay or replace PCB ASS'Y

☞ Checking method of F,R DEF Heater resistance value
F FEF ; CN70#9(Brown) ↔ CN71#9(Orange)
R FEF ; CN70#7(White) ↔ CN71#9(Orange)
- Recheck if resistance values are different after the test

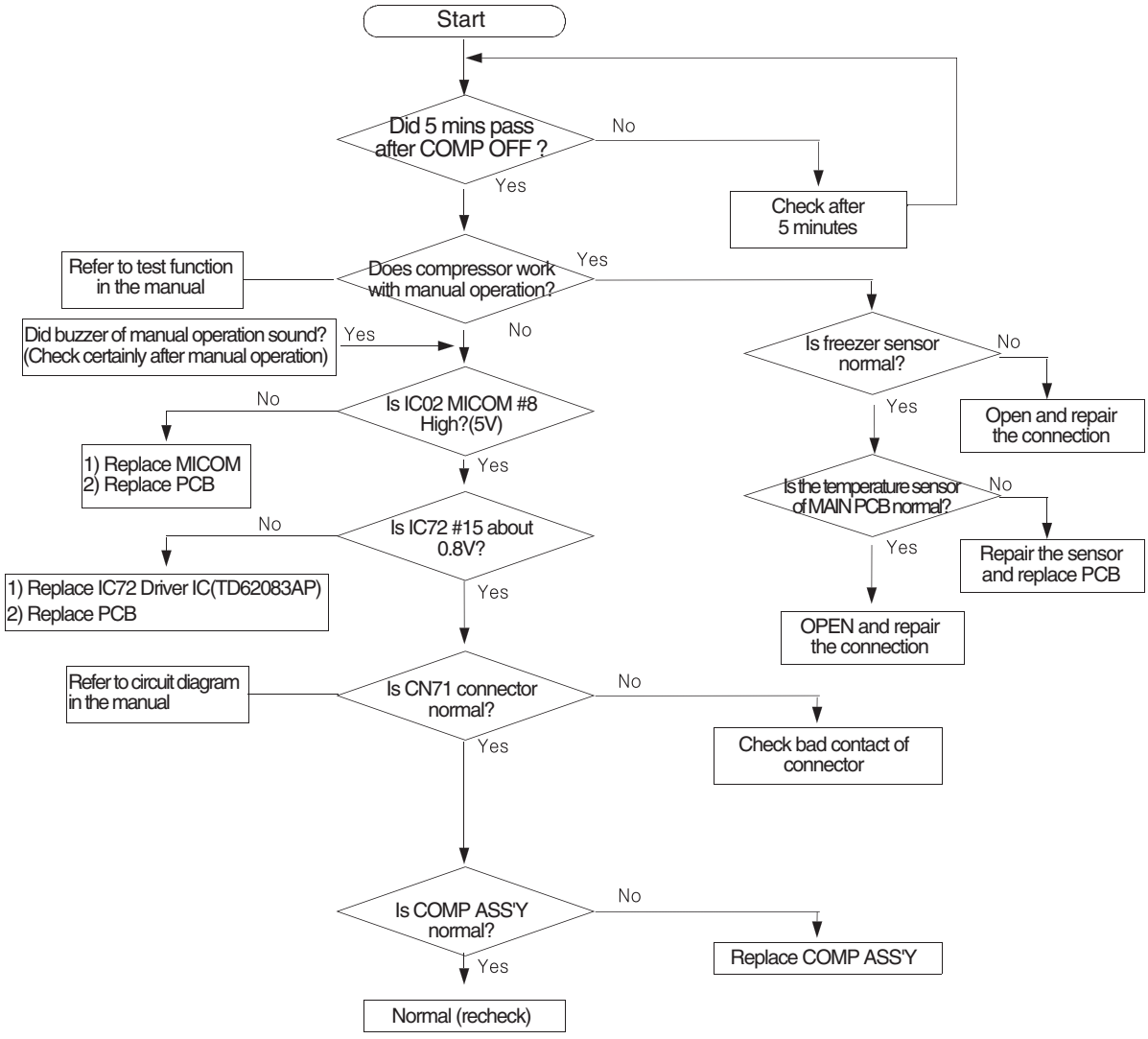
1) F DEF Heater

2) R DEF Heater

4-2-5. If Power is not supplied

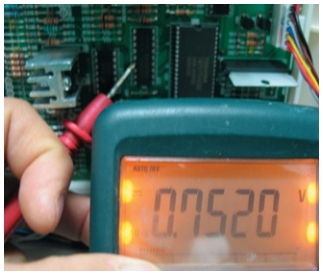


4-2-6. If compressor does not operate

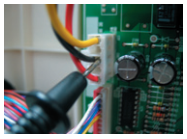


☞ Checking method of voltage PCB typical Ground CN1#3(Black) and
1) IC02 MICOM #8 ; voltage High(5V ±0.5V)
IC02 MICOM #8, COMP operating

☞ Checking method of voltage
PCB typical Ground CN1#3(Black) and
1) IC72 #15 : Voltage Low(0V)

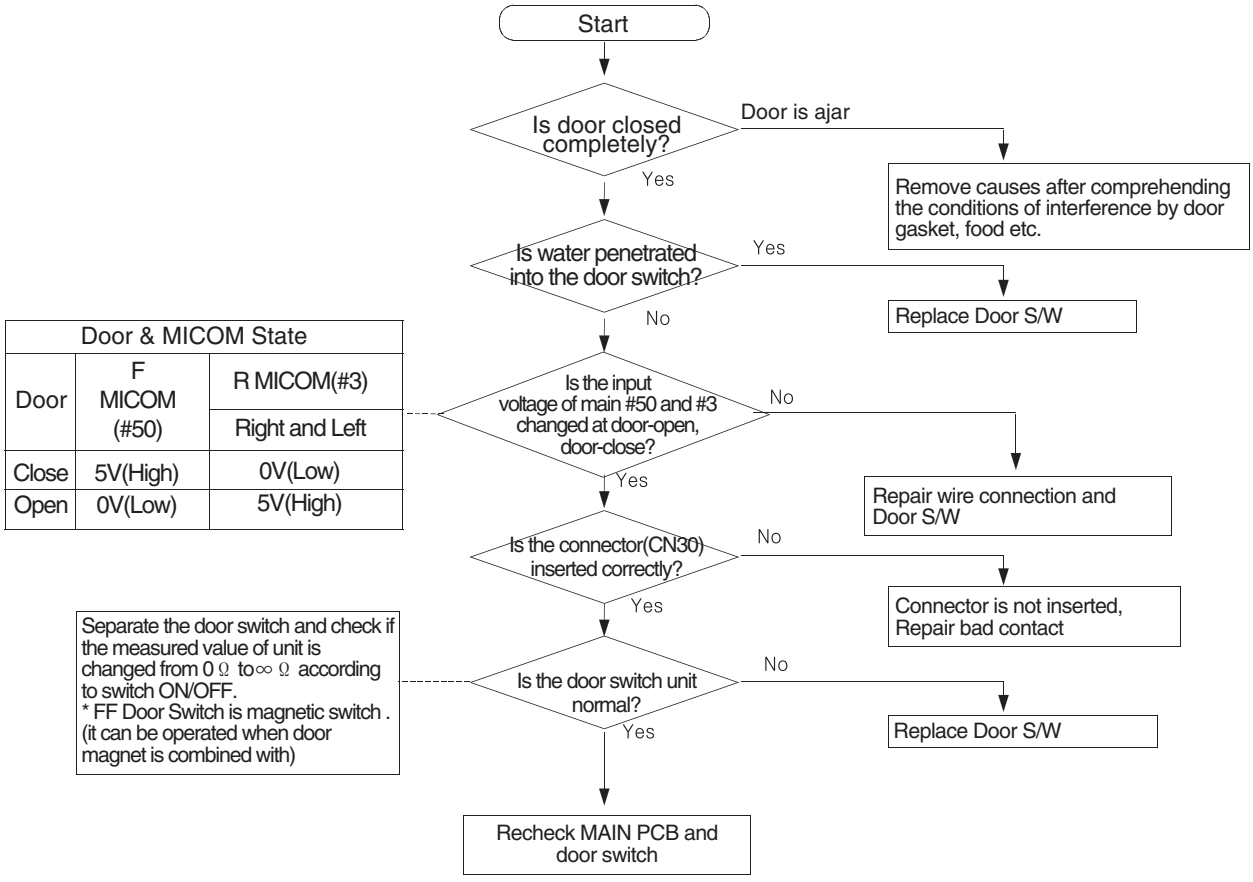


typical PCB Ground
CN1#3(Black)



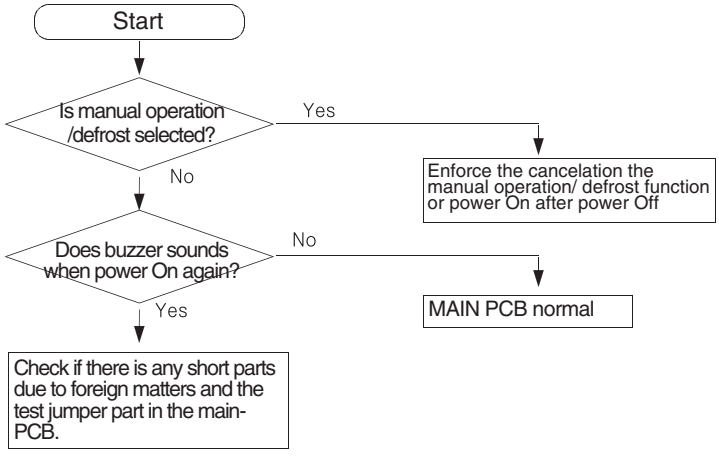
4-2-7. When alarm sound continuous without stop(related with buzzer sound)

① If 'ding-dong' sounds continuously



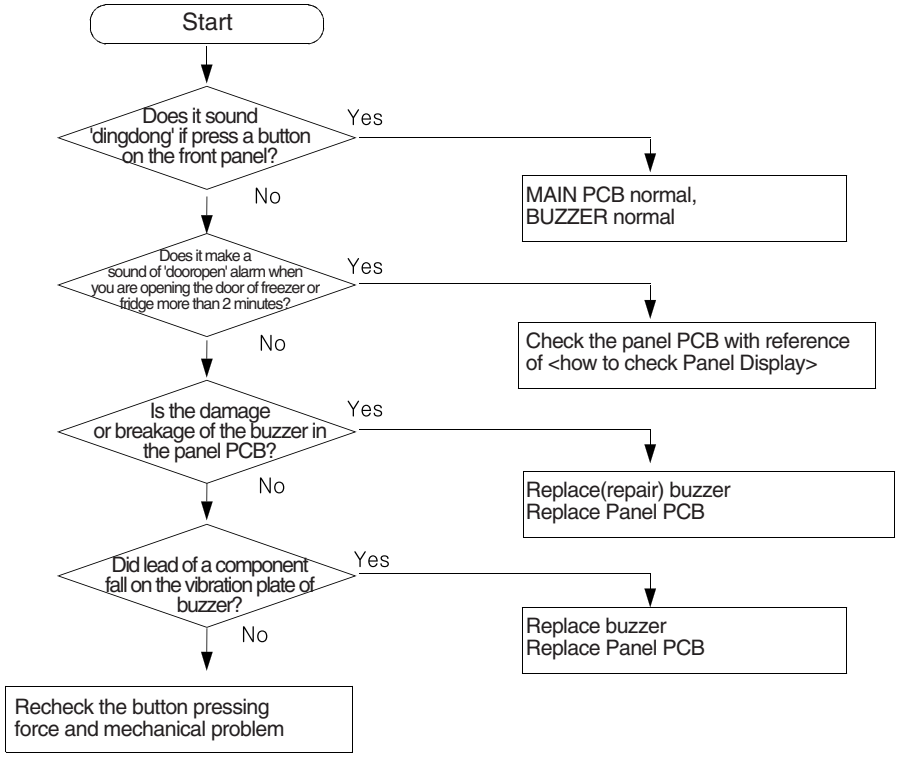
Door & MICOM State		
Door	F MICOM (#50)	R MICOM(#3) Right and Left
Close	5V(High)	0V(Low)
Open	0V(Low)	5V(High)

② If 'beep-beep' sounds continuously



③ If buzzer does not sound

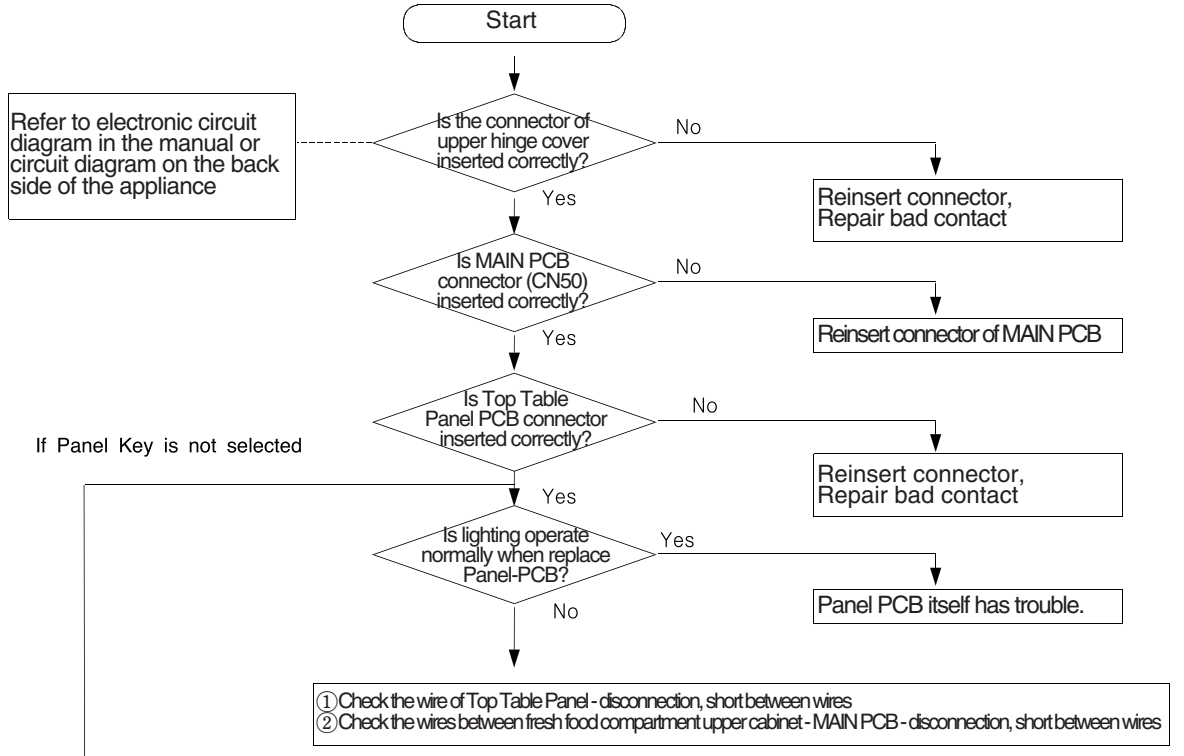
Buzzer is installed on the panel PCB in this model.
If buzzer does not sound when button is pressed, manual operation is started and door is opened, should separate panel PCB and check the breakage of buzzer and bad soldering.
It is very hard to repair the panel PCB because it consists of SMD assemblies.
It is recommended to replace assembly PCB when the failure associated with panel is occurred except the minor error such as switch pressing error, surface peeling off and so on.



4-2-8. If Panel PCB does not work normally

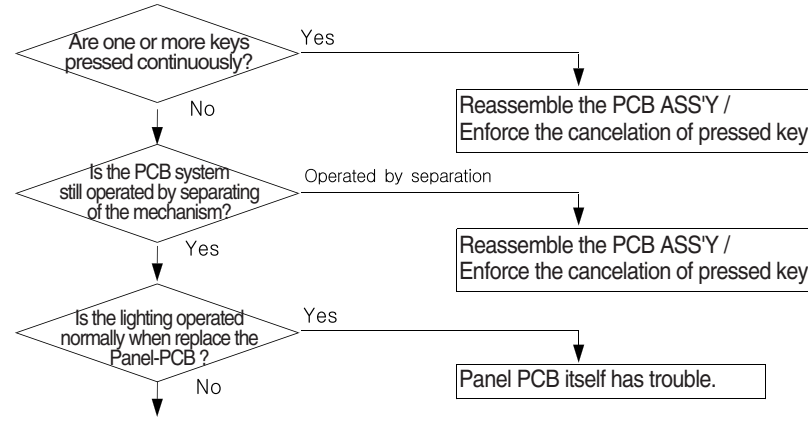
① When lighting of Panel PCB is disabled or only some LED Lamp are disabled

Be careful to repair because display of this model is installed in the MICOM of internal PCB.
It is recommend to replace PCB MAIN after checking except specified solder touch.



← ② If Panel PCB KEY is not selected

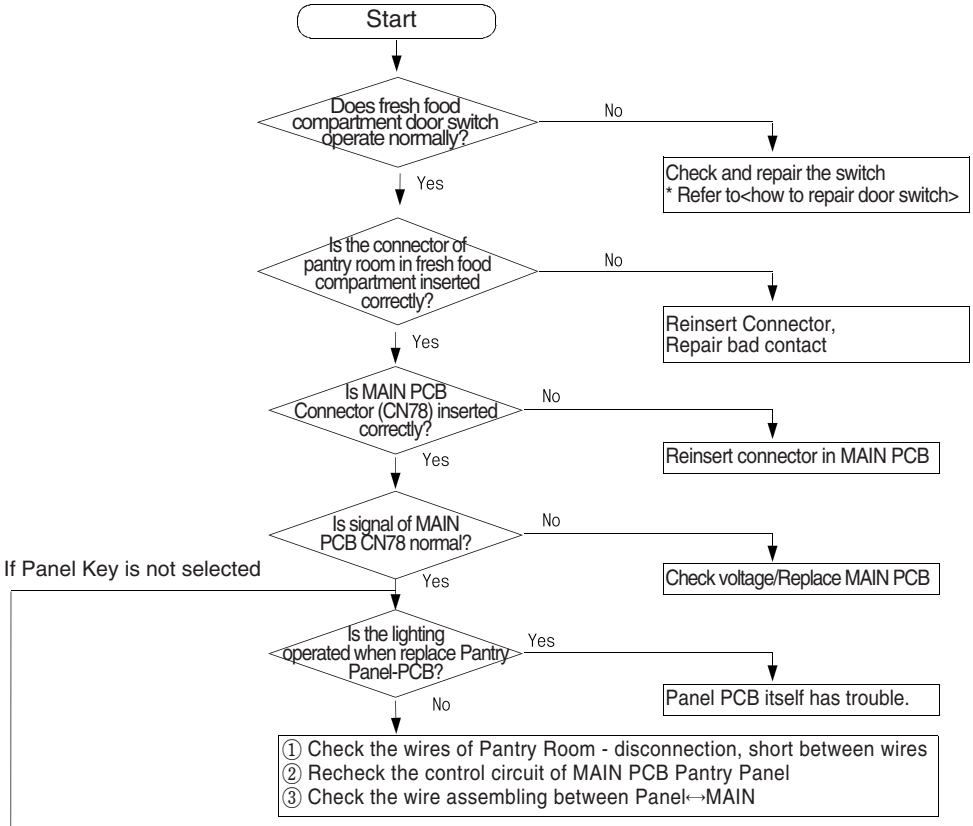
※ If it is not repaired with using the basic checking method as above



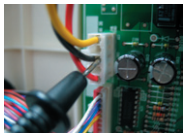
①Check the wires of Top Table Panel - disconnection, short between wires.
②Check the wires of fresh food compartment upper cabinet - disconnection, short between wires.
③Check the short/open of the panel communication and power supply circuit in MAIN PCB.

4-2-9. If Pantry Panel PCB is not working normally

You should check the display after door opening because the display of this model operates only when the fresh food compartment door is opened.



typical PCB Ground
CN1#3(Black)



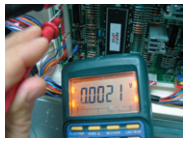
← ② If Panel Panel PCB Key is not selected

※ If it is not repaired with using the basic checking method as above

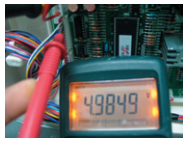
☞ Checking method of voltage Based on PCB typical Ground CN1#3(Black)

1) Key voltage ; CN78#1"(Purple)

1) select(operating) (0V)



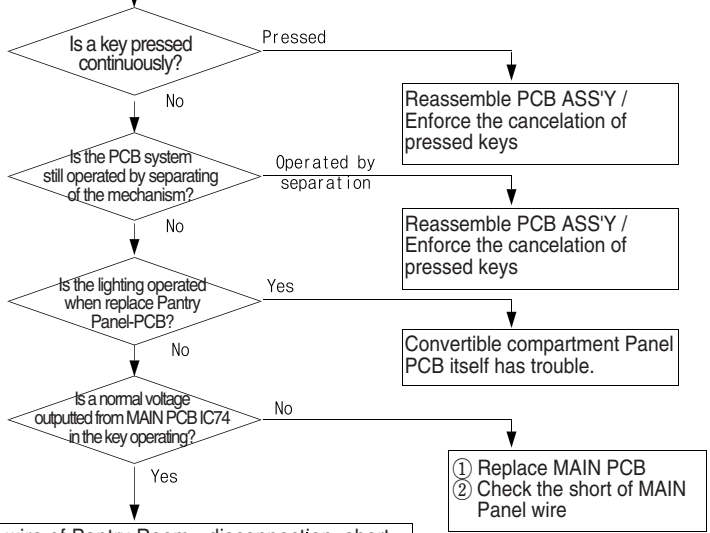
2) normal(about5.0V ±0.5V)



2) LED part voltage ; CN78-"7"(Yellow), "8"(Pink) → Voltage of CN78 is same as IC74 #12,#11 voltage.

- Display On (0.7V±0.3V)

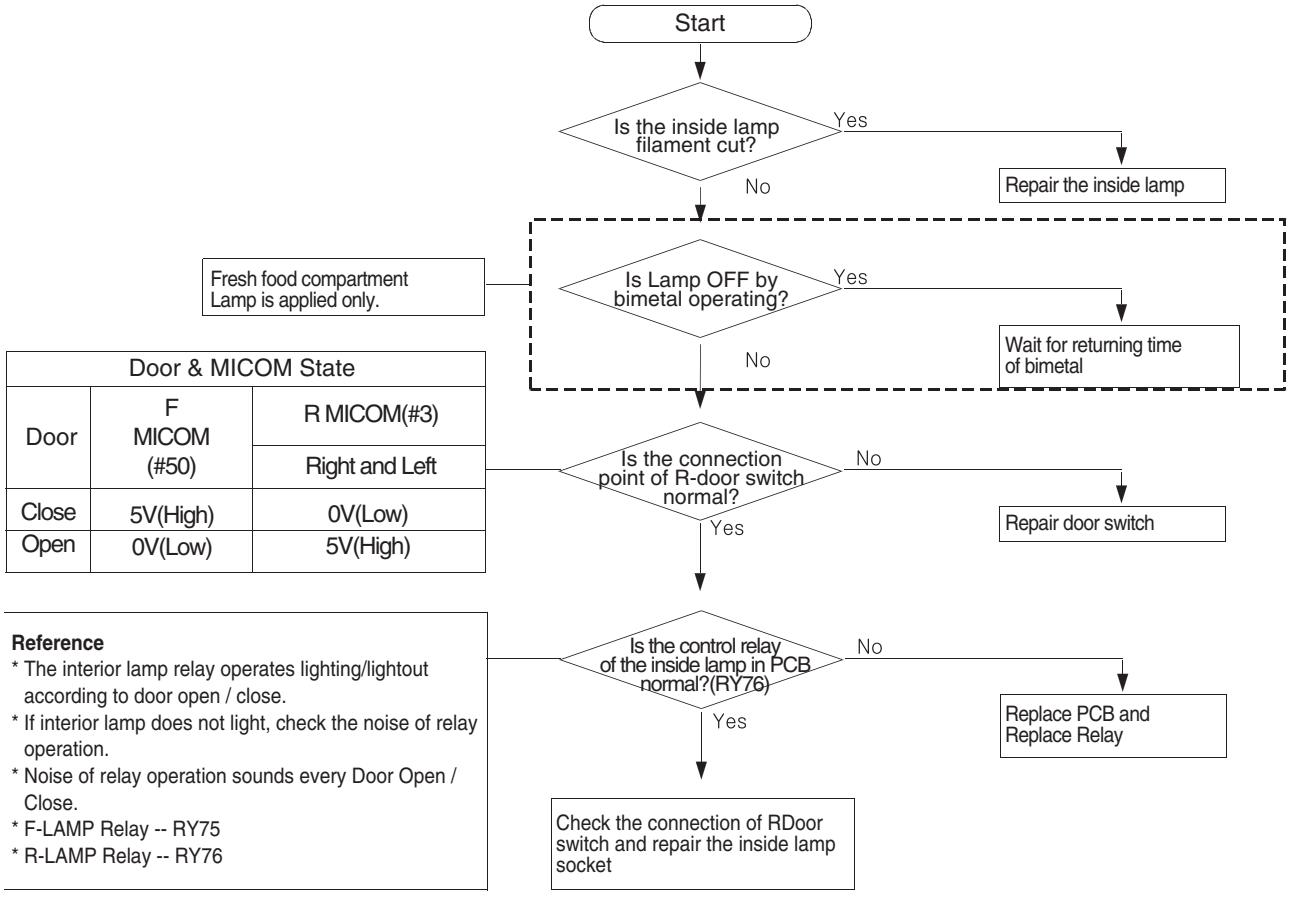
- Display Off (9.7V±1V)



4-2-10. When refrigerator ROOM Lamp does not light up

1. When you replace the lamp of freezer, please power OFF to avoid an electric shock.
2. Please keep in mind you could get burnt by the excessive heating of an incandescent light bulb.
3. Bimetal is installed in the refrigerator LAMP. Check that if LAMP may be OFF by bimetal.

※ The case of fresh food compartment(room) lamp will be explained only.
Because it is possible to repair the other room lamps with the same method.



Door & MICOM State		
Door	F MICOM (#50)	R MICOM(#3)
		Right and Left
Close	5V(High)	0V(Low)
Open	0V(Low)	5V(High)

Reference
* The interior lamp relay operates lighting/lightout according to door open / close.
* If interior lamp does not light, check the noise of relay operation.
* Noise of relay operation sounds every Door Open / Close.
* F-LAMP Relay -- RY75
* R-LAMP Relay -- RY76

Reference
If the door is opened, the contact of door switch will be opened and MICOM will get applied 5V to finally sense Open.
If 5V has been sensed over two minutes afterwards, Door-Open alarm will sound 'Ding-Dong' for 10 seconds in a oneminute cycle. For that reason, if the door switch has failure, the refrigerator can make a "Ding-Dong" sound per a oneminute cycle. Please note the step for its service.

☞ When measure lamp resistance to the Wire
→ Resistance can be changed by Lamp input voltage. (Actual measurement is below, it can be changed by performance)

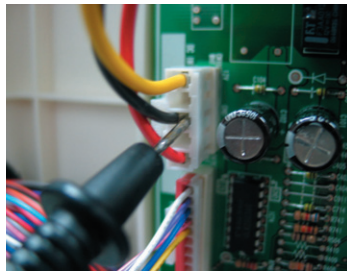
☞ Fresh food compartment lamp CN70#1(Red) ↔ CN71#1 (Blue) ; 10(33)Ohm±3 Ohm Lamp ; 60W + 60W

☞ Freezer compartment lamp CN70#1(Red) ↔ CN71#3 (Purple) ; 15(66)Ohm±5 Ohm Lamp ; 60W

☞ Checking method of Door Switch voltage
- Measuring voltage of Sensor Check Point #5(IC01 MICOM #58) on PCB or CN30#8(White-black) ↔ CN75#1(Gray)
- Compare time table after measuring

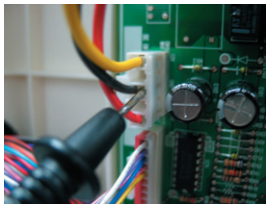
Measuring voltage of CN30#8(white-black)↔CN75#1(Gray) are below

typical PCB Ground CN10#3"(Black)



4-2-11. If ICE Water is not supplied

typical PCB Ground CN1#3(Black)

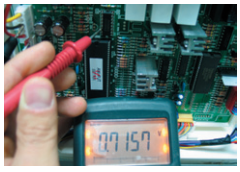


☞ Checking method of voltage Based on PCB typical Ground CN1#3(Black)

1) Check the voltage of IC73#4(same voltage as IC02 #12)
- ICE Water valve operating (about 5V±0.5V)

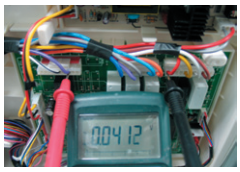
Based on PCB typical Ground CN1#3(Black)

2) IC73 #13 voltage
- ICE Water valve operating (about 0.7V±0.5V)

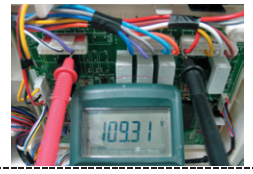


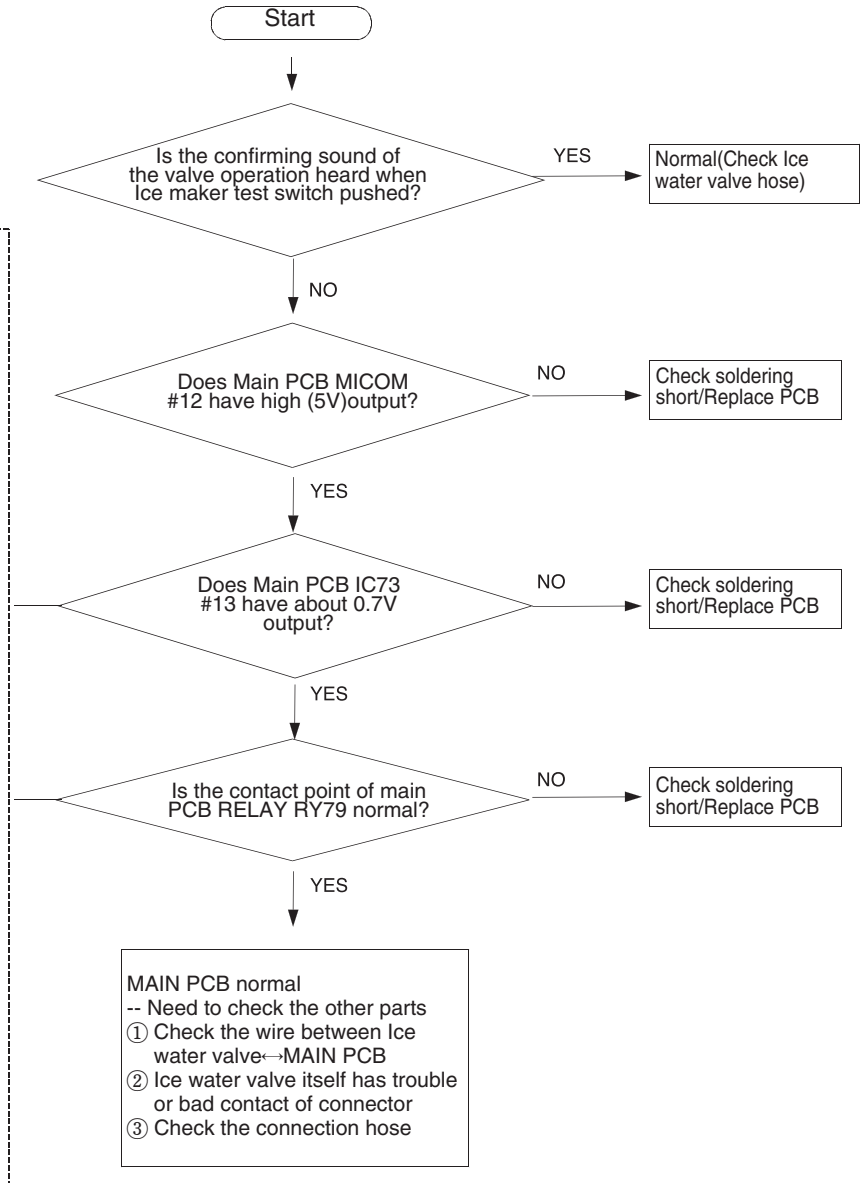
3) Check the voltage of ICE Water Valve operating(AC voltage)

=> For checking the Relay RY79 operating.
CN70#1(Red) ↔ CN73#7(Purple)
- ICE Water valve waiting (about AC 0V)



- ICE Water valve operating (about AC 110V ± 20%)

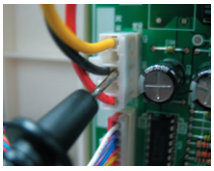




4-2-12. If Water is not supplied

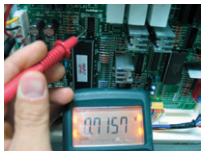
☞ Checking method of Valve resistance (Must power off for checking)
Resistance can be changed by input voltage.
CN70#1 (Red) ↔ CN73#5 (White-black)
- resistance value ; 388Ohm ± 7%)
** 0 Ω : Short trouble / ∞ Ω : Open trouble

typical PCB Ground CN1#3(Black)



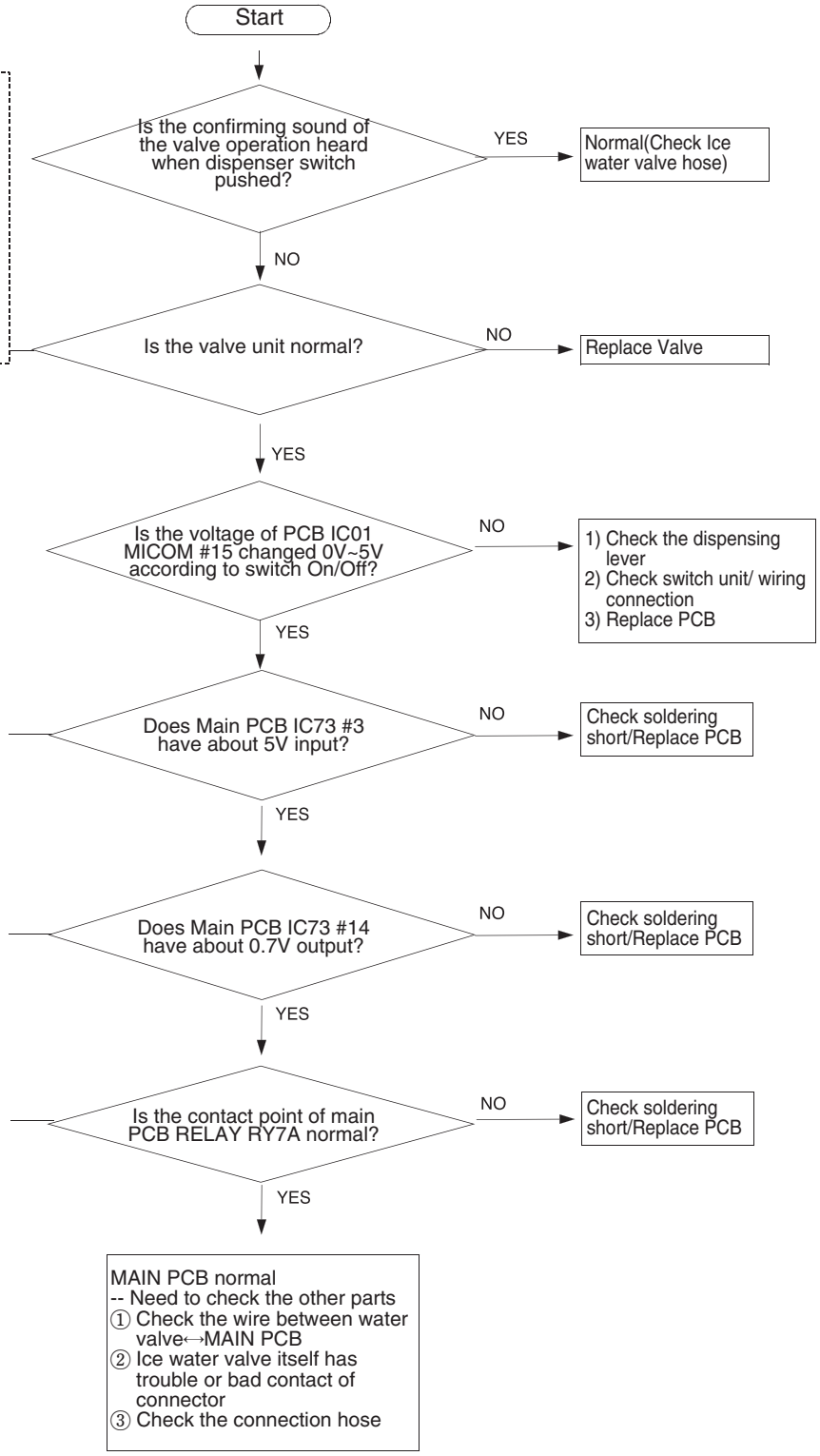
☞ Checking method of voltage
Based on PCB typical Ground CN1#3(Black)
1) Check voltage of IC73# (same voltage as IC01#64)
- Water valve operating (about 5V±0.5V)

Based on PCB typical Ground CN1#3(Black)
2) IC73 #14 voltage
- Water valve operating (about 0.7V±0.5V)



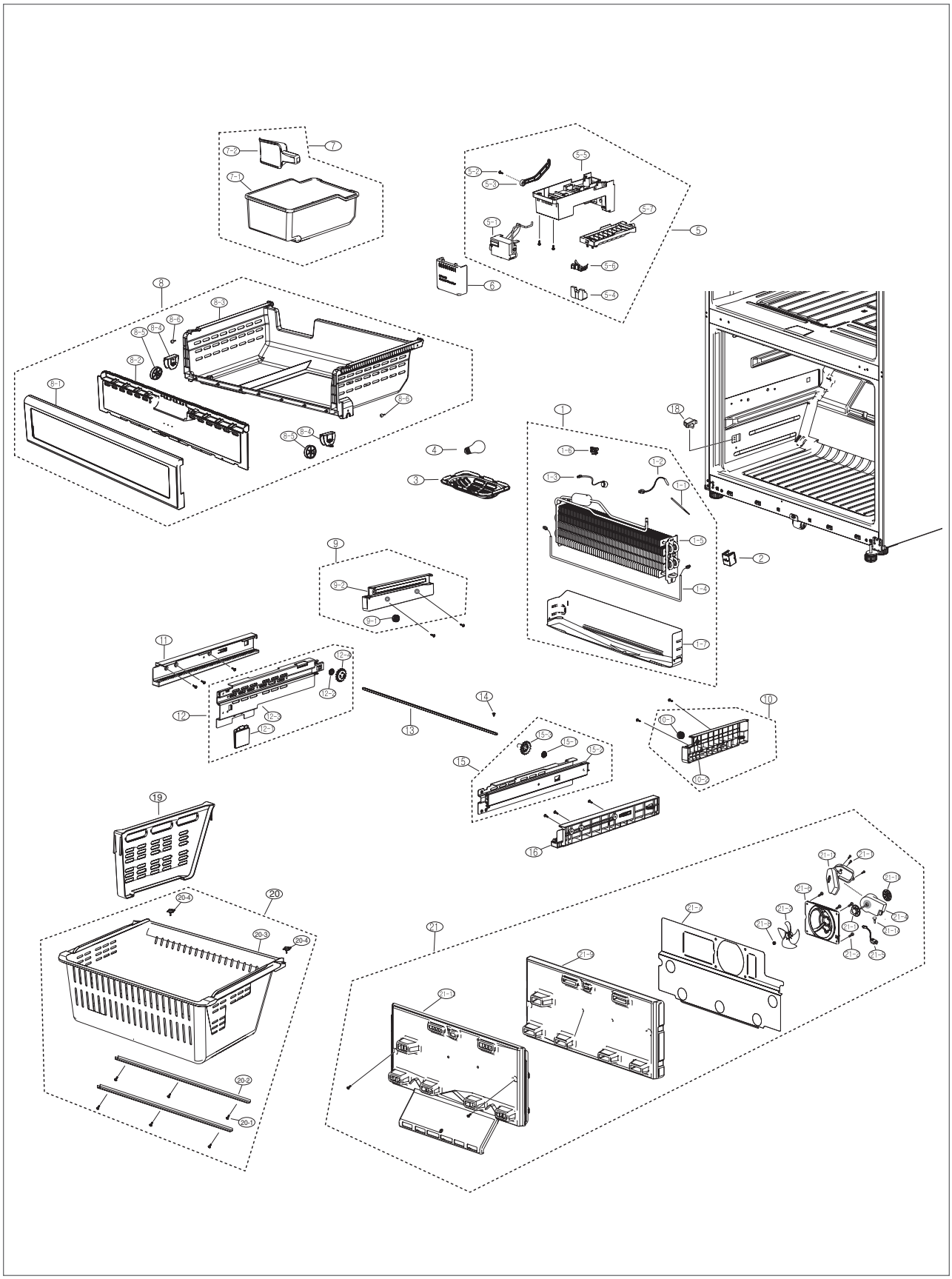
3) Check the voltage of Water Valve operating (AC voltage)
=> For checking the Relay RY7A operating.
CN70#1(Red) ↔ CN73#5(White-black)
- ICE Water valve waiting (about AC 0V)

- ICE Water valve operating (about AC 110(230)V ± 20%)



5 . EXPLODED VIEW & PARTS LIST

5-1) Freezer



EXPLODED VIEW & PARTS LIST

■ Parts List of Freezer

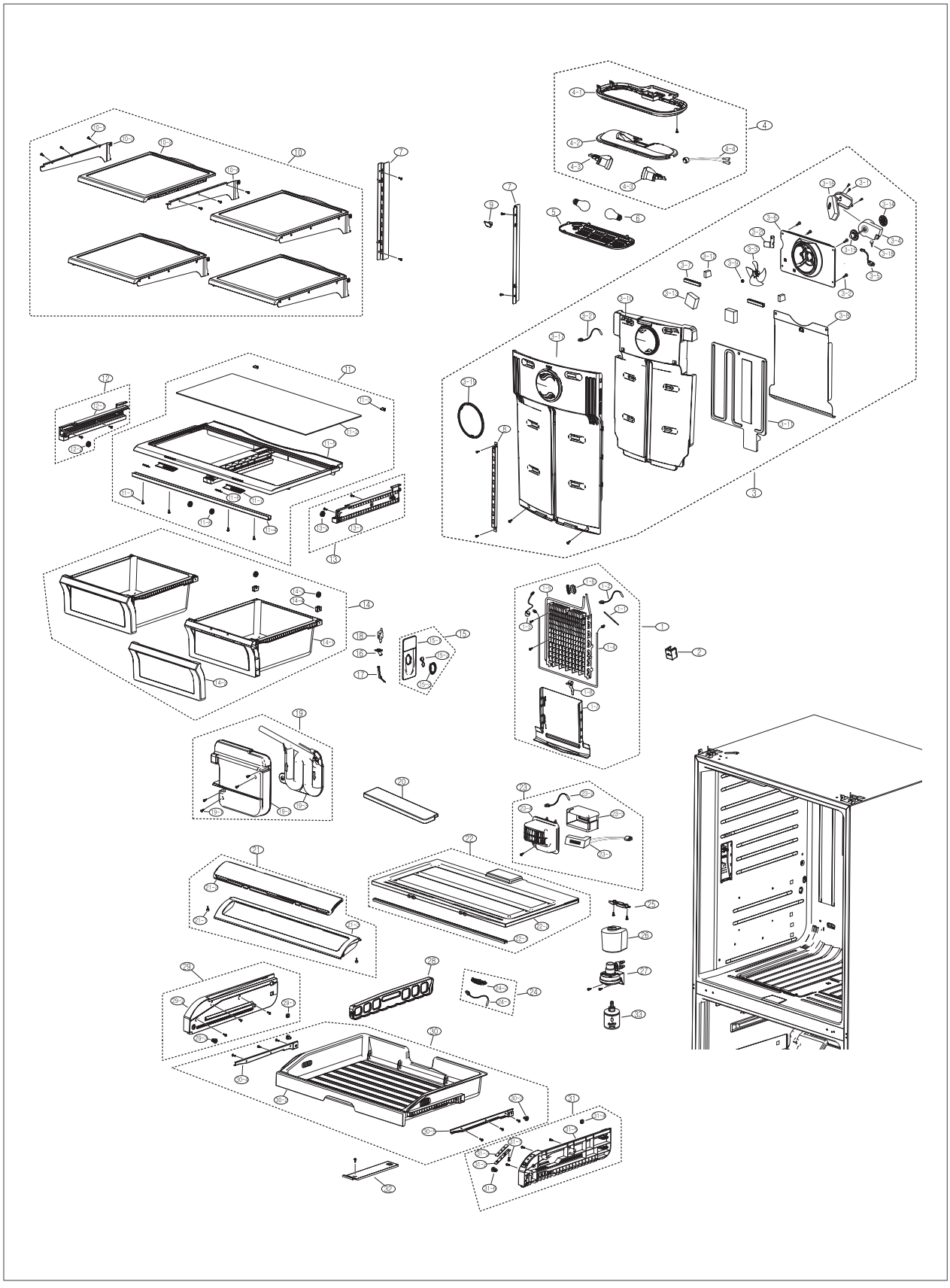
NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA96-00460A	ASSY EVAP-FRE	AW-PJT,PIN,115V/240	1	
1-1	6501-000123	CABLE TIE	DACT140,W3.6,L146,NTR,NYLON66	2	
1-2	DA32-00027E	SENSOR TEMP-F-DEF	PX41C,40~110,5V,FDEF SENSOR,YEL,500MM	1	
1-3	DA47-00243R	THERMO BIMETAL-PROTECTOR	AW-PJT(F),BT-121-M, PW-5M1N,125 / 250V,10 / 5A,60?,40?,100M Ω	1	
1-4	DA47-00244C	HEATER-METAL SHEATH	AW-PJT,240W,115V,55.1,F-ROOM	1	
1-5	DA59-00358A	EVAP FRE	PIN,115V,AW-PJT	1	
1-6	DA61-02901A	FIXER-SENSOR EVAP	CORE-PJT,PP,NTR	1	
1-7	DA61-04149A	PLATE-DRAIN FRE	AW-PJT,GALVANUME,T0.3	1	
2	DA63-02902B	COVER-FIXER HOUSING,V	NEXT-PJT,GALVA,T0.3,W31,L42	1	
3	DA63-03420A	COVER-LAMP FRE	AW,GPPS,NTR	1	
4	4713-001223	LAMP INCANDESCENT	120V,500mA,60W,47x84mm	1	
5	DA97-05037A	ASSY-SUPPORT ICE MAKER	AW-PJT	1	
5-1	DA59-00294A	ICE MAKER-ASSY	NTGN,DC12V	1	
5-2	DA60-10132A	SCREW-TAPPING	PH,+,PI3,L15,PASS,STS430,2S	1	
5-3	DA61-00954B	GUIDE-ICE FULL	AW,ABS,NTR	1	
5-4	DA61-01800A	FIXER-SENSOR(ICE MAKER)	AD,URETHANE	1	
5-5	DA61-03213B	SUPPORT-ICE MAKER	AW-PJT,HIPS,NTR	1	
5-6	DA63-02183A	COVER-SENSOR	AD,PP,T1.0,WHITE	1	
5-7	DA63-02284B	TRAY ICE	AD,PP,NTR,BJ73SLW180	1	
6	DA63-03613A	COVER-ICE MAKER	AW-PJT,HIPS,COOL WHITE	1	
7	DA97-04845A	ASSY CASE-ICE CUBE	AW-PJT	1	
7-1	DA61-03189A	CASE-ICE CUBE	AW-PJT,PP,COOL WHITE	1	
7-2	DA67-01231A	SCOOP ICE	W2-PJT(05),PP(BJ703T4),SC02740R	1	
8	DA97-06259A	ASSY TRAY-FRE UPP	AW-PJT	1	
8-1	DA63-03435A	COVER-TRAY FRE UPP A	AW-PJT,HIPS,COOL WHITE	1	
8-2	DA63-03436A	COVER-TRAY FRE UPP B	AW-PJT,GPPS	1	
8-3	DA63-04113A	TRAY-FRE UPP	AW-PJT,HIPS,COOL WHITE	1	
9	DA97-06083A	COVER-RAIL LOW L	AW-PJT,ABS,COOL WHITE	1	
9-1	DA66-10104A	ASSY RAIL-SLIDE LOW L	AW-PJT	1	
9-2	DA61-04108A	SWITCH PRESSURE	AW-PJT,HIPS,COOL WHITE	1	
10	DA97-06084A	FIXER-GEAR	AW-PJT,POM,NTR	1	
10-1	DA66-10104A	RAIL-SLIDE LOW L	AW-PJT,STS430	1	
10-2	DA61-04109A	GEAR-L	AW-PJT,POM,NTR	1	
11	DA63-03414A	COVER-RAIL LOW L	AW-PJT,ABS,COOL WHITE	1	
12	DA97-04836A	ASSY RAIL-SLIDE LOW L	AW-PJT	1	
12-1	DA34-00047A	SWITCH PRESSURE	AW-PJT,HIPS,COOL WHITE	1	
12-2	DA61-03154A	FIXER-GEAR	AW-PJT,POM,NTR	1	
12-3	DA61-03158A	RAIL-SLIDE LOW L	AW-PJT,STS430	1	
12-4	DA66-00436A	GEAR-L	AW-PJT,POM,NTR	1	
13	DA66-00437A	SHAFT-GEAR	AW-PJT,SM25C	1	
14	DA67-00859C	CAP-DOOR HANDLE	CORE,POM,INOX,SC-06034R	1	
15	DA97-04835A	ASSY RAIL-SLIDE LOW R	AW-PJT	1	
15-1	DA61-03154A	FIXER-GEAR	AW-PJT,POM,NTR	1	
15-2	DA61-03333A	RAIL-SLIDE LOW R	AW-PJT,STS430	1	
15-3	DA66-00435A	GEAR-R	AW-PJT,POM,NTR	1	
16	DA63-03415A	COVER-RAIL LOW R	AW-PJT,ABS,COOL WHITE	1	
17	DA61-03190A	FIXER-TRAY FRE UPP	AW-PJT,PP,NTR	2	
18	DA34-10120E	SWITCH DOOR-F	slide,250V,0.5A,cool white	1	
19	DA61-03416A	GUIDE-DRAWER BOX	AW-PJT,HIPS,COOL WHITE	1	
20	DA97-06258A	ASSY TRAY-DRAWER BOX	AW-PJT,PP,COOL WHITE	1	
20-1	6002-000213	SCREW-TAPPING	AW-PJT	1	
20-2	DA61-03160A	REINF-DRAWER BOX	TH,+,-,1,M4,L12,ZPC(WHT)	1	

EXPLODED VIEW & PARTS LIST

■ Parts List of Freezer

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
20-3	DA63-04116A	TRAY-DRAWER BOX	AW-PJT,SHP1,T2.6,BL	1	
20-4	DA63-04313A	GROMMET-TRAY DRAWER BOX	AW-PJT,PP,COOL WHITE	1	
21	DA97-04938B	ASSY COVER-EVAP FRE	AW-PJT	1	
21-1	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	3	
21-2	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	4	
21-3	DA31-00124A	FAN-AX100W4CC-T1	TD-PJT,ABS	1	
21-4	DA31-00146C	MOTOR BLDC	2950,DC12V,150mA,2.1W,MOTORBLDC	1	
21-5	DA96-00042K	WIRE HARNESS-MOTOR	AW	1	
21-6	DA61-03183A	CASE-MOTOR FRE	AW-PJT,BUBBLE PP,NTR	1	
21-7	DA61-03184A	PLATE-INS EVAP FRE	AW-PJT,GALVANUME,T0.4	1	
21-8	DA61-20128A	SPRING ETC-FAN	STS304,PI7.8,OD1.0,FD	1	
21-9	DA62-01384A	INSULATION-EVAP FRE	AW-PJT,FOAM-PS	1	
21-10	DA63-01146A	GROMMET-MOTOR,REAR	ATOP,NBR,ID6.5,OD42,BLK,BLDC	1	
21-11	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,H20	1	
21-12	DA63-01809A	COVER MOTOR-BLDC	BLDCNEW,PP,NTR,BJ730	1	
21-13	DA63-03432B	COVER-EVAP FRE	AW-PJT,PP,NTR	1	
21-14	DA63-40167A	GROMMET-COVER CHIL	T3.0,SILICON,NTR	1	

5-2) Refrigerator



EXPLODED VIEW & PARTS LIST

■ Parts List of Refrigerator

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA96-00461A	ASSY EVAP-REF	AW-PJT(BEST,GE),115V/120W	1	
1-1	6501-000123	CABLE TIE	DACT140,W3.6,L146,NTR,NYLON66	4	
1-2	DA32-00027B	SENSOR ASSY	PX41C,502AT,AW-PJT,40~110,5V,RDEF SENSOR,YEL,400MM	1	
1-3	DA47-00243S	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M, PW-5M1N,125 / 250V,10 / 5A,60?,40?,100MΩ	1	
1-4	DA47-00244D	HEATER-METAL SHEATH	AW-PJT,120W,115V,110.2?,RROOM	1	
1-5	DA59-00357B	EVAP REF	AW-PJT	1	
1-6	DA61-03683A	FIXER-SENSOR	ATOP,EVAP,PP,NTR,ALL	1	
1-7	DA61-04148A	PLATE-DRAIN REF	AW-PJT('08),GALVANUME,T0.3	1	
1-8	DA61-03644A	PLATE-EVAP HEATER	AL,T0.7	1	
2	DA63-02902B	COVER-FIXER HOUSING,V	NEXT-PJT,GALVA,T0.3,W31,L42	1	
3	DA97-06197B	ASSY COVER-EVAP REF	AW-PJT(BASIC)	1	
3-1	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	3	
3-2	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	4	
3-3	DA31-00124A	FAN-AX100W4CC-T1	TD-PJT,ABS	1	
3-4	DA31-00146C	MOTOR BLDC	2950,DC12V,150mA,2.1W,MOTORBLDC	1	
3-5	DA96-00042J	WIRE HARNESS-MOTOR	AW	1	
3-6	DA61-03181A	CASE-MOTOR REF	AW-PJT,BUBBLE PP,NTR	1	
3-7	DA61-03182A	GUIDE-INS EVAP REF	AW-PJT,ABS,NTR	2	
3-8	DA61-03186A	PLATE-INS EVAP REF	AW-PJT,GALVANUME,T0.4	1	
3-9	DA61-20128A	SPRING ETC-FAN	STS304,PI7.8,OD1.0,FD	1	
3-10	DA62-01381A	INSULATION-EVAP REF	AW-PJT,FOAMPS	1	
3-11	DA62-01382A	INSULATION-EVAP REAR	AW-PJT,FOAMPS	1	
3-12	DA62-01383A	INSULATION-EVAP SUB	AW-PJT,FOAMPS	2	
3-13	DA62-01423A	INSULATION-EVAP DUCT	AW-PJT,FOAMPS,T20,W44.5,L45	2	
3-14	DA63-01146A	GROMMET-MOTOR,REAR	ATOP,NBR,ID6.5,OD42,BLK,BLDC	1	
3-15	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,H20	1	
3-16	DA63-01809A	COVER MOTOR-BLDC	BLDCNEW,PP,NTR,BJ730	1	
3-17	DA63-04139A	COVER-EVAP REF	AW-PJT,PP,COOL WHITE	1	
3-18	DA63-03517A	COVER-EVAP REF SUB	AW-PJT,HIPS(HG1760SF),COOL -WHT	1	
3-19	DA63-40167A	GROMMET-COVER CHIL	T3.0,SILICON,NTR	1	
3-20	DA64-02065A	TRIM-COVER EVAP REF	AW-PJT,ABS,COOL -WHITE	1	
3-21	DA32-10105X	SENSOR-TEMP	502AT,AW-PJT,-40~110°…,5V,F-DEF-SENSOR,YEL,500MM	1	
3-22	DA61-03179A	ANGLE-SHELF REF MID	AW,SECC1,T2.0,COOL -WHITE	1	
4	DA97-04842E	ASSY CASE LAMP-REF	AW(GE 08)-PJT	1	
4-1	DA61-03163A	CASE-LAMP REF	AW,HIPS,COOL WHITE	1	
4-2	DA61-03169A	PLATE LAMP REF	AW,SBHG1,T0.4	1	
4-3	DA47-40001D	LAMP HOLDER ASSY	E26,250V,660W,TE5006F	2	
4-4	DA47-00243D	THERMO BIMETAL PROTECTOR	AW-PJT(R-Lamp),BT-121-M, PW-5M1N,125 / 250V,10 / 5A,60?,40?,100MΩ	1	
5	DA63-03773A	COVER-LAMP REF	AW,PC,crystal	1	
6	4713-001223	LAMP INCANDESCENT	120V,500mA,60W,47x84mm	2	
7	DA61-03180A	ANGLE-SHELF REF SIDE	AW,SECC1,T2.0,COOL -WHITE	2	
9	DA67-01688A	CAP-ANGLE	AW-PJT,HIPS,COOL -WHITE	1	
10	DA97-04850A	ASSY SHELF-GLASS REF FIX	AW-PJT	4	
10-1	6002-001397	SCREW-TAPPING	TH,+,1,M4,L10,ZPC(WHT),SWRCH18A,HD6.5,HT2	6	
10-2	DA67-01606A	SHELF-GLASS REF FIX	AW,PP,INSERT	1	
10-3	DA67-01608A	SHELF-HANGER REF L	AW,SECC1,T1.6,COOL -WHITE	1	
10-4	DA67-01609A	SHELF-HANGER REF R	AW,SECC1,T1.6,COOL -WHITE	1	
11	DA97-04832A	ASSY COVER-VEG	AW-PJT	1	
11-1	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	4	
11-2	DA01-00400A	GLASS-COVER VEG	756*343,T3.2,1 PRINT	1	
11-3	DA61-03166A	FIXER-COVER VEG	AW,HIPS,COOL -WHITE	2	
11-4	DA61-03173A	REINF-COVER VEG	AW-PJT,SHP1,T2.9,BLACK	1	

EXPLODED VIEW & PARTS LIST

■ Parts List of Refrigerator

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
11-5	DA63-03428A	COVER-VEG REF	AW,HIPS,COOL -WHITE	1	
11-6	DA64-00817A	KNOB-HUMIDITY	QUEEN,ABS	2	
11-7	DA66-00438A	LEVER-HUMIDITY	AW,HIPS,COOL -WHITE	2	
11-8	DA66-10104A	ROLLER-FRE	POM,D22	2	
12	DA97-04839A	ASSY RAIL-VEG L	AW-PJT	1	
12-1	DA61-03172A	RAIL-VEG L	AW,HIPS,COOL -WHITE	1	
12-2	DA66-10104A	ROLLER-FRE	POM,D22	1	
13	DA97-04840A	ASSY RAIL-VEG R	AW-PJT	1	
13-1	DA61-03177A	RAIL-VEG R	AW,HIPS,COOL -WHITE	1	
13-2	DA66-10104A	ROLLER-FRE	POM,D22	1	
14	DA97-04846A	ASSY CASE-VEG REF	AW-PJT	2	
14-1	DA61-03165A	CASE-VEG REF	AW,SAN,NTR	1	
14-2	DA63-03426A	COVER-VEG FRONT	AW,HIPS,COOL -WHITE	1	
14-3	DA66-10104A	ROLLER-FRE	POM,D22	2	
14-4	DA71-20145A	FIXER-ROLLER	PA	2	
15	DA97-04952B	ASSY COVER-DISPENSER	AW-PJT	1	
15-1	DA63-03516B	COVER-DISPENSER	AW-PJT,HIPS,SC-02740R,COOL-WHT	1	
15-2	DA64-02113A	BUTTON-COVER DISPENSER	AW-PJT,PP(BJ730),COOL -WHT,SC-02740R	1	
15-3	DA73-00230A	RUBBER-COVER-DISPENSER	AW-PJT,SILICON,4 05,GRAY	1	
16	DA61-03327A	FIXER-WATER HOSE	AW-PJT,PP(BJ730),COOL -WHT,SC0 -2740R	1	
17	DA66-00451A	LEVER-CASE DISPENSER	AW-PJT,POM,NTR	1	
18	DA34-00011A	SWITCH-MICRO	VP533AOF5,MICRO,250V,15A,PBT,GP1006F,1	1	
19	DA97-05033B	ASSY-COVER WATER TANK	AW-PJT,BETTER	1	
19-1	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	2	
19-2	DA63-03449A	COVER-TANK WATER	AW-PJT,PP,COOL -WHITE	1	
19-3	DA97-02650F	ASSY TANK WATER	AW-PJT,BETTER	1	
20	DA67-01605A	SHELF-PANTRY SUB	AW,HIPS,COOL WHITE	1	
21	DA97-04831C	ASSY COVER-SLIDE PANTRY	AW-PJT	1	
21-1	DA63-40167A	GROMMET-COVER SLIDE	T3.0,SILICON,NTR	2	
21-2	DA63-03424A	COVER-SLIDE PANTRY A	AW,GPPS,NTR	1	
21-3	DA63-03425A	COVER-SLIDE PANTRY B	AW,HIPS,COOL WHITE	1	
22	DA97-04841A	ASSY SHELF-PANTRY	AW-PJT	1	
22-1	DA61-03174A	REINF-SHELF PANTRY	AW-PJT,SECC1,T1.2,COOL WHITE	1	
22-2	DA67-01604A	SHELF-PANTRY	AW,HIPS,COOL WHITE	1	
23	DA97-06324A	ASSY COVER-MOTOR DAMPER	AW2-PJT	1	
23-1	DA31-00071C	ASSY DAMPER MOTOR	DC 12V,MAX 600mA,BBC-PJT	1	
23-2	DA32-00006R	SENSOR TEMP-PANTRY	PX-41C,502AT,AW-PJT	1	
23-3	DA62-01380A	INSULATION-MOTOR DC DAMPER	AW-PJT,FOAMPS,NTR	1	
23-4	DA63-04274A	COVER-MOTOR DC DAMPER	AW-PJT,PP,COOL WHITE	1	
24	DA97-02019A	ASSY COVER-SENSOR	COMBI-PJT,COOLWHITE,SC -02740R	1	
24-1	DA32-10105B	SENSOR-ASSY	TEMP CAP TYPE	1	
24-2	DA63-10467B	COVER-SENSOR	COMBI-PJT,HIPS,SC -02740R,COOL -WHITE	1	
25	DA61-03202A	GUIDE-FRENCH	AW-PJT,POM,COOL -WHITE(SC02740R)	1	
26	DA63-03685B	COVER-WATER FILTER	AW-PJT,HIPS,T3,WHT,GEN-2 ¢Ø°ΔøÎÄ	1	
27	DA97-01666Y	ASSY CASE-FILTER	AW-PJT	1	
28	DA61-03167A	GUIDE-PANTRY	AW,PP,COOL -WHITE	1	
29	DA97-05371B	ASSY COVER-RAIL PANTRY L	AW-PJT(BEST)	1	
29-1	DA61-03176A	SUPPORT-ROLLER PANTRY	AW-PJT,NBR,NTR	1	
29-2	DA63-03762A	COVER-RAIL PANTRY L	AW,HIPS,COOL -WHITE	1	
29-3	DA97-05297B	ASSY ROLLER B	AW-PJT,Ni-Zn	1	
30	DA97-04847D	ASSY CASE-PANTRY	AW-PJT,COOL WHITE,ROLLER(Ni-Zn)	1	
30-1	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	6	

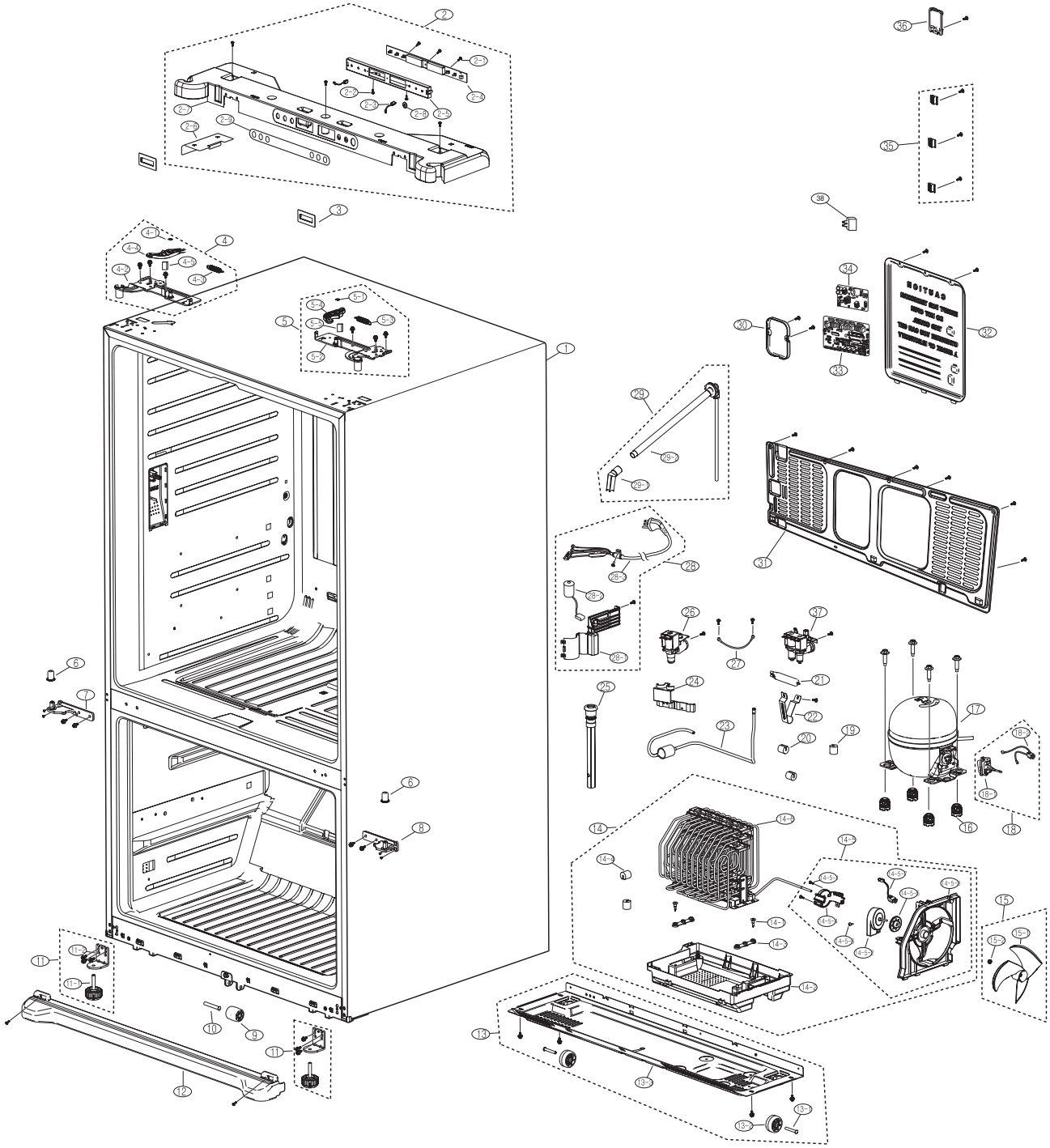
EXPLODED VIEW & PARTS LIST

■ Parts List of Refrigerator

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
30-2	DA61-03164A	CASE-PANTRY	AW,HIPS,COOL -WHITE	1	
30-3	DA97-05296B	ASSY ROLLER A	AW-PJT,Ni-Zn	2	
30-4	DA97-04837A	ASSY RAIL-PANTRY L	AW-PJT	1	
30-5	DA97-04838A	ASSY RAIL-PANTRY R	AW-PJT	1	
31	DA97-05384C	ASSY COVER-RAIL PANTRY R	AW-PJT(BEST)	1	
31-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A	1	
31-2	DA41-00423C	PBA PANEL-PANTRY	AW-PJT,PANTRY ROOM BLUE LED,FR1,PANTRY LOWES BLUE,12V	1	
31-3	DA64-02246C	INLAY CONTROL PANEL	AW,PC	1	
31-4	DA61-03176A	SUPPORT-ROLLER PANTRY	AW-PJT,NBR,NTR	1	
31-5	DA63-03763A	COVER-RAIL PANTRY R	AW,HIPS,COOL -WHITE	1	
31-6	DA97-05297B	ASSY ROLLER B	AW-PJT,Ni-Zn	1	
32	DA61-03175A	SUPPORT-PANTRY	AW,PP,COOL -WHITE	1	
33	DA29-00003B	FILTER WATER-ASSY	ATOP,86*86*167,NSF53	1	

EXPLODED VIEW & PARTS LIST

5-3) Cabinet



EXPLODED VIEW & PARTS LIST

■ Parts List of Cabinet

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA90-03646B	ASSY CABINET FORM	RF265,BLACK	1	
1	DA90-03646F	ASSY CABINET FORM	RF265,-,REAL STAINLESS	1	
1	DA90-03646G	ASSY CABINET FORM	RF265,SNOW WHITE	1	
2	DA97-04901A	ASSY-TOP TABLE	AW-PJT,ABS,I-BLACK(SC-00477R)	1	
2-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A	3	
2-2	6002-001122	SCREW-TAPPING	FH,+,1,M4,L14,ZPC(WHT),SWRCH18A	2	
2-3	DA34-00043B	SWITCH REED-ASS'Y	200VDC,1.5A	2	
2-4	DA41-00412A	PBA PANEL-LED	AWBASIC,DOOR REF,FR4,BLUE LED,12V	1	
2-5	DA61-03194B	CASE-PBA DISPLAY	AW-PJT,HIPS,NTR	1	
2-6	DA61-03331A	PLATE-TOP TABLE	AW-PJT,SBHG1,T0.3,	1	
2-7	DA64-02066A	TOP TABLE	AW-PJT,ABS(VH0815),I-BLACK(SC-00477R)	1	
2-8	DA64-02071A	BUTTON-CONTROL	AW-PJT,GPPS,NTR,	1	
2-9	DA64-02076D	INLAY-DISPLAY	AW-PJT,PC,0.3,299.5,27.5	1	
2	DA97-04901B	ASSY-TOP TABLE	AW-PJT,ABS,Creamy STS(SC-07009R)	1	
2-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A,	3	
2-2	6002-001122	SCREW-TAPPING	FH,+,1,M4,L14,ZPC(WHT),SWRCH18A	2	
2-3	DA34-00043B	SWITCH REED-ASS'Y	200VDC,1.5A,	2	
2-4	DA41-00412A	PBA PANEL-LED	AWBASIC,DOOR REF,FR4,BLUE LED,12V	1	
2-5	DA61-03194B	CASE-PBA DISPLAY	AW-PJT,HIPS,NTR	1	
2-6	DA61-03331A	PLATE-TOP TABLE	AW-PJT,SBHG1,T0.3,	1	
2-7	DA64-02066B	TOP TABLE	AW-PJT,ABS(VH0815),Creamy STS(SC-07009R)	1	
2-8	DA64-02071A	BUTTON-CONTROL	AW-PJT,GPPS,NTR,	1	
2-9	DA64-02076E	INLAY-DISPLAY	AW-PJT,PC,0.25,28,300,CREAMY-STS	1	
2	DA97-04901C	ASSY-TOP TABLE	AW-PJT,ABS,Snow-White(SC-97527R)	1	
2-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A,	3	
2-2	6002-001122	SCREW-TAPPING	FH,+,1,M4,L14,ZPC(WHT),SWRCH18A	2	
2-3	DA34-00043B	SWITCH REED-ASS'Y	200VDC,1.5A,	2	
2-4	DA41-00412A	PBA PANEL-LED	AWBASIC,DOOR REF,FR4,BLUE LED,12V	1	
2-5	DA61-03194B	CASE-PBA DISPLAY	AW-PJT,HIPS,NTR	1	
2-6	DA61-03331A	PLATE-TOP TABLE	AW-PJT,SBHG1,T0.3,	1	
2-7	DA64-02066C	TOP TABLE	AW-PJT,ABS(VH0815),Snow-White(SC-97527R)	1	
2-8	DA64-02071A	BUTTON-CONTROL	AW-PJT,GPPS,NTR,	1	
2-9	DA64-02076F	INLAY-DISPLAY	AW-PJT,PC,0.25,28,300,SNOW-WHITE	1	
3	DA67-01613A	CAP-TOP TABLE	AW-PJT,ABS,I-BLACK(SC-00477R)	2	
3	DA67-01613B	CAP-TOP TABLE	AW-PJT,ABS,Creamy STS(SC-07009R)	2	
3	DA67-01613C	CAP-TOP TABLE	AW-PJT,ABS,Snow-White(SC-97527R)	2	
4	DA97-04874A	ASSY HINGE UPP-L	AW-PJT,T2.9,BLACK	1	
4-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK,	1	
4-2	DA61-03239A	HINGE-UPP L	AW-PJT,SHP1,T2.9,	1	
4-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,24,	1	
4-4	DA97-04903A	ASSY LEVER-AUTO CLOSE	AW-PJT,POM,i-BLACK	1	
4-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	
4	DA97-04874B	ASSY HINGE UPP-L	AW-PJT,T2.9,Creamy-STS	1	
4-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK,	1	
4-2	DA61-03239A	HINGE-UPP L	AW-PJT,SHP1,T2.9,	1	
4-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,24,	1	
4-4	DA97-04903B	ASSY LEVER-AUTO CLOSE	AW-PJT,POM,Creamy-STS	1	
4-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	
4	DA97-04874C	ASSY HINGE UPP-L	AW-PJT,T2.9,Snow-White	1	
4-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK,	1	
4-2	DA61-03239A	HINGE-UPP L	AW-PJT,SHP1,T2.9,	1	
4-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,24,	1	

EXPLODED VIEW & PARTS LIST

■ Parts List of Cabinet

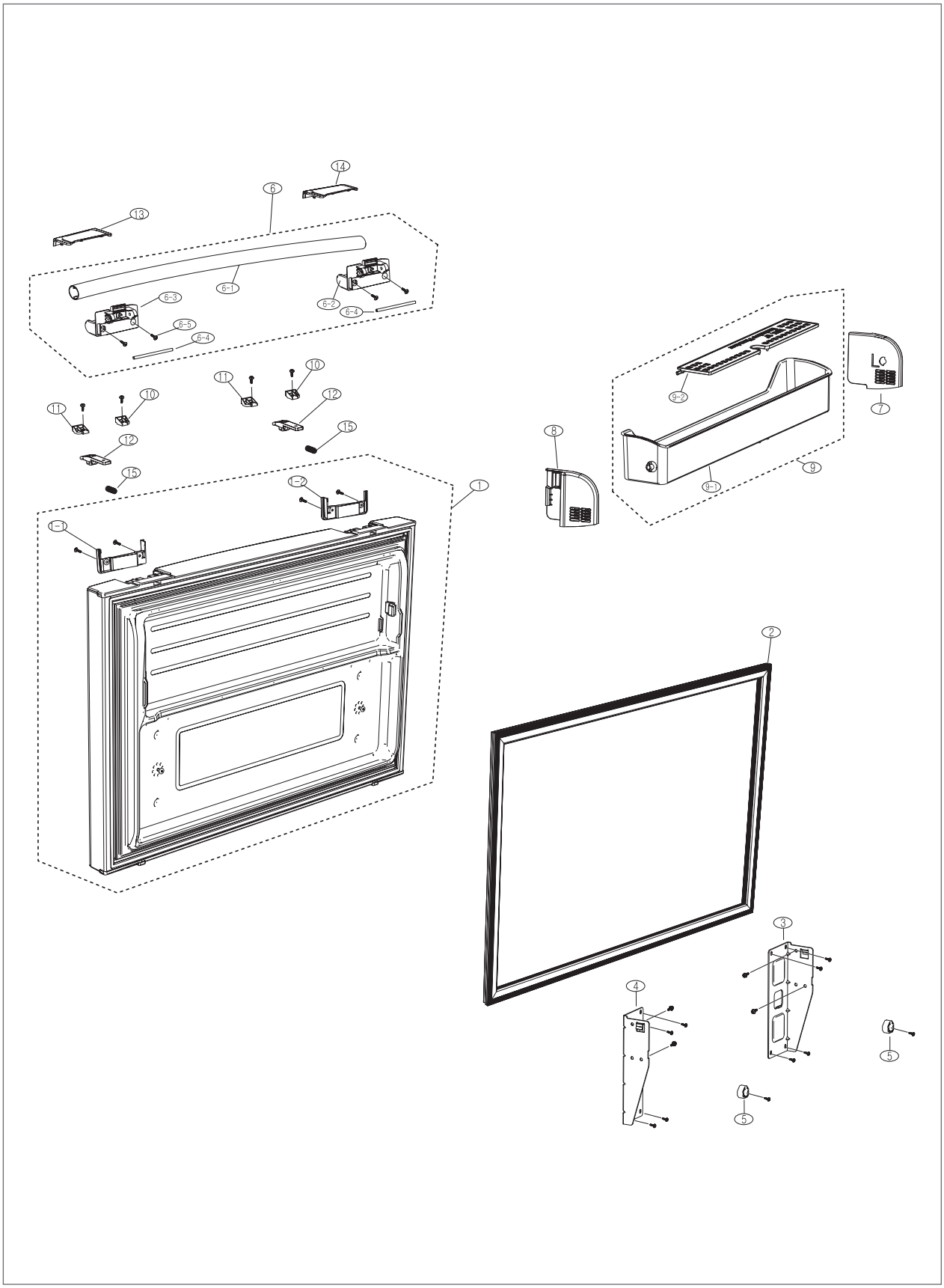
NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
4-4	DA97-04903C	ASSY LEVER-AUTO CLOSE	AW-PJT,POM,Snow-White	1	
4-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	
5	DA97-04875A	ASSY HINGE UPP-R	AW-PJT,T2.9,i-BLACK	1	
5-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK,	1	
5-2	DA61-03240A	HINGE-UPP R	AW-PJT,SHP1,T2.9,	1	
5-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,24,	1	
5-4	DA97-04903A	ASSY LEVER-AUTO CLOSE	AW-PJT,POM,i-BLACK	1	
5-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	
5	DA97-04875B	ASSY HINGE UPP-R	AW-PJT,T2.9,Creamy-STS	1	
5-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK,	1	
5-2	DA61-03240A	HINGE-UPP R	AW-PJT,SHP1,T2.9,	1	
5-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,24,	1	
5-4	DA97-04903B	ASSY LEVER-AUTO CLOSE	AW-PJT,POM,Creamy-STS	1	
5-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	
5	DA97-04875C	ASSY HINGE UPP-R	AW-PJT,T2.9,Snow-White	1	
5-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK,	1	
5-2	DA61-03240A	HINGE-UPP R	AW-PJT,SHP1,T2.9,	1	
5-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,24,	1	
5-4	DA97-04903C	ASSY LEVER-AUTO CLOSE	AW-PJT,POM,Snow-White	1	
5-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	
6	DA63-02905A	GROMMET HINGE-MID,R	NEXT,POM,T2.0,WHITE,	2	
7	DA97-04876B	ASSY HINGE MID-L	AW-PJT,T4.5	1	
8	DA97-04877B	ASSY HINGE MID-R	AW-PJT,T4.5	1	
9	DA61-40115B	CASTER-FRONT	SR-50,PP	1	
10	DA61-01920A	CASTER-RIVET	(ZPC2),MSWR10,OD8.0,L54	1	
11	DA97-05016A	ASSY-SUPPORT FOOT FRONT	AW-PJT	2	
11-1	DA61-00805C	FOOT-FRONT	AW-PJT,PP	1	
11-2	DA61-03217A	SUPPORT-FOOT FRONT	AW-PJT,SHP1,T4.0,BLACK	1	
12	DA63-03434A	COVER-LEG FRONT	AW-PJT,PP,i-BLACK	1	
12	DA63-03434B	COVER-LEG FRONT	AW-PJT,PP,Creamy-STS	1	
12	DA63-03434C	COVER-LEG FRONT	AW-PJT,PP,Snow-White	1	
13	DA97-02064B	ASSY CHASSIS-COMP	AD,NEXT,SBHG1,T1.4,	1	
13-1	DA60-90146A	PIN-CASTER	MSWR10,OD6.0,L40,ZPC2,SR2894	2	
13-2	DA61-40126B	CASTER-REAR	REFALL,PP,PI 44,NTR,W22,	2	
13-3	DA64-01170A	CHASSIS COMP	AD,SBHG1,T1.4,	1	
14	DA97-05043B	ASSY TRAY-DRAIN WATER	AW-PJT	1	
14-1	6009-001252	SCREW-SPECIAL	PH,+,M4.0,L20(12),ZPC(WHT),SWRCH18A	2	
14-2	DA63-03450A	TRAY-DRAIN WATER	AW-PJT,PP,NTR,	1	
14-3	DA63-40128A	GROMMET-SUB COND	NBR,DARKGRAY	2	
14-4	DA63-40171B	GROMMET-SUCT PIPE A	NBR,OD20,ID4,L20,BLK	2	
14-5	DA97-03145K	ASSY SUPPORT-CIRCUIT MOTOR	AW-PJT	1	
14-5-1	6003-000003	SCREW-TAPTITE	BH,+,B,M4,L10,ZPC(BLK),SWRCH18A,	2	
14-5-2	DA31-00146D	MOTOR BLDC	1500,DC12V,250mA,2.5W,MOTORBLDC,	1	
14-5-3	DA61-02349B	SUPPORT-CIRCUIT MOTOR	NEXT,ABS,NTR,	1	
14-5-4	DA61-02355B	BRACKET-CIRCUIT MOTOR	ABS,NEXT,,NTR	1	
14-5-5	DA63-01146A	GROMMET-MOTOR,REAR	ATOP,NBR,ID6.5,OD42,BLK,BLDC	1	
14-5-6	DA63-40167A	GROMMET-COVER CHIL	T3.0,SILICON,NTR	1	
14-5-7	DA96-00042A	ASSY-HARNESS MOTOR	ATOP UL(MOTOR),CFAN,350MM	1	
14-5-8	DA97-05093A	ASSY PIPE-SPIRAL COND	AW-PJT,	1	
15	DA31-00010D	FAN-ASS'Y	ET,ZIPEL,ASSY,UNIT,?150	1	
15-1	DA31-00015C	FAN-TURBO	ET-PJT,ABS+GLASS FIBE,GR4010	1	
15-2	DA61-20128A	SPRING ETC-FAN	STS304,PI7.8,OD1.0,FD	1	

EXPLODED VIEW & PARTS LIST

■ Parts List of Cabinet

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
16	DA63-02017A	GROMMET-COMP	QUEEN,EPDM,	4	
17	MK172DR2U/E08	COMPRESSOR	115127V~60HZ,RSCR,FAN	1	
18	DA97-02895K	ASSY-COMP SUB	AW-PJT		
18-1	DA96-00174E	ASSY-HARNESS COMP	AW-PJT(GE-OEM),AWG #18	1	
18-2	DA35-00008X	RELAY PROTECTOR O/L	2000S501,4TM435RFBYY,S/T:16.5A,U//T:4.28A,135,61	1	
18-3	DA35-00103B	RELAY-PTC THERMISOR	PTHTM100MD3	1	
19	DA63-40171B	GROMMET-SUCT PIPE A	NBR,OD20,ID4,L20,BLK	1	
20	DA63-40171D	GROMMET-SUCT PIPE B	RAIL L19.5,NR,OD20,ID6,BLK	2	
21	DA62-01514A	DRYER	REF-ALL,C1220T,OD18.70,L114	1	
22	DA61-02657A	CLIP-DRYER	AD,SECC1,T0.4,	1	
23	DA97-06085A	ASSY PIPE CONNECT-SUCTION	aw,c1220 t	1	
24	DA61-02434A	FIXER-HOSE(VALVE)	ET'05-PJT,PP,T2	1	
25	DA97-04049A	ASSY CAP-DRAIN	EPEL,ASSY,L224.5,SOFTPVC	1	
26	DA62-01477A	VALVE WATER-ONE WAY FITTING	RIV-11A-31,1.0~8.0Kgf,110~127V,60Hz	1	
27	DA39-20389R	WIRE HARNESS-EARTH	AW-PJT,YEL/GRN,AWG#18,700mm	1	
28	DA97-05147A	ASSY-COVER NOISE FILTER	AW-PJT	1	
28-1	DA63-02907A	COVER-NOISE FILTER	NEXT,PP,NFPP	1	
28-2	DA27-00009B	COIL CHOKE-EMI FILTER	FA2107LB,QUEEN GE,5mH,+50%,30%,10A,38*50	1	
28-3	DA39-10165E	CBF-POWER CORD	ET-PJT,SVT-3,125V,15A,L=2300,BLACK,UL	1	
29	DA97-00209H	ASSY PIPE-WATER	ET-PJT,115V	1	
29-1	DA63-02469A	GROMMET-PIPE WATER FILL IN	ET-PJT,SILICON	1	
29-2	DA73-00134B	PIPE-WATER FRE ASSY	W205,ASSY,L295,	1	
30	DA97-05029B	ASSY-COVER PIPE WATER	AW-PJT	1	
31	DA97-06321A	ASSY COVER-COMP	AW-PJT	1	
32	DA97-05031B	ASSY-COVER PCB PANEL	AW-PJT	1	
33	DA41-00413G	PBA MAIN-BETTER	115V	1	
33	DA41-00413H	PBA MAIN-GOOD	115V	1	
34	DA41-00320A	PBA SMPS-NEXT	NEXT,TOP,CEM1,148*100,POWER SUPPLY,85~170V,50~60Hz	3	
35	DA61-01181A	FIXER-HOSE	INSERT-FILTER,ABS,BLK	1	
36	DA63-00586B	COVER-TUBE FILTER	A-TOP,PP,W76,L83,NTR	1	
37	DA62-00914B	VALVE-WATER FITTING	12A-41,110~127V	1	
38	2301-001837	C-FILM LEAD	250V	1	

5-4) Disassembly of Freeze Door



EXPLODED VIEW & PARTS LIST

■ Parts List of Freezer Door

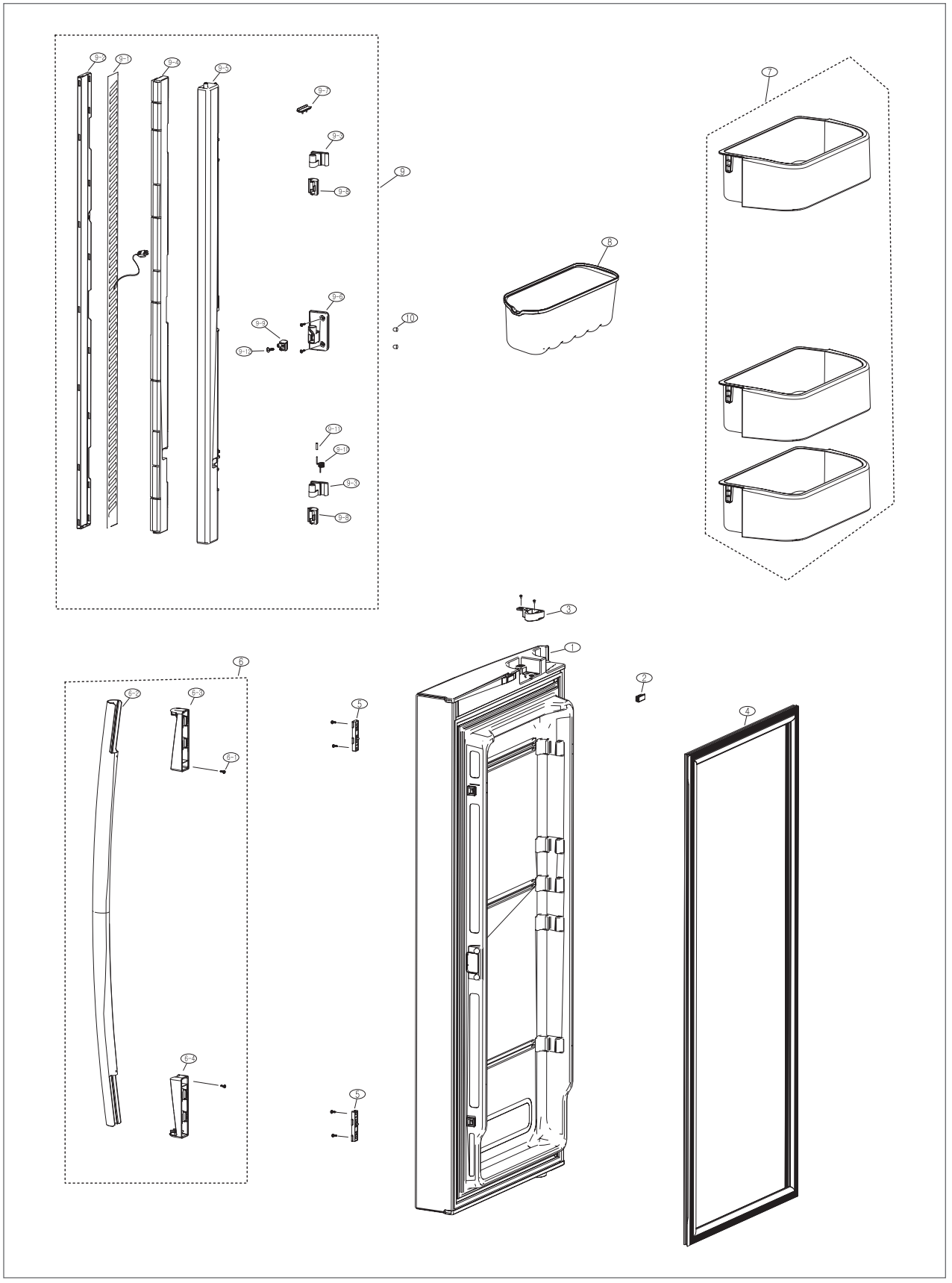
NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA90-04554A	ASSY DOOR FOAM FRE	AW-PJT,EMPIRE-BLACK	1	
1	DA90-04554B	ASSY DOOR FOAM FRE	AW-PJT,VERSAILLES-STS,	1	
1	DA90-04554C	ASSY DOOR FOAM FRE	AW-PJT,SNOW-WHITE	1	
1	DA90-04554D	ASSY DOOR FOAM FRE	AW-PJT,PLATINUM-INOX	1	
1-1	DA67-01992A	CAP DOOR-FRE SUB L	AW-PJT,ABS,I-BLACK,EASY-HANDLE	1	
1-1	DA67-01992B	CAP DOOR-FRE SUB L	AW-PJT,ABS,CREAMY-STS,EASY-HANDLE	1	
1-1	DA67-01992C	CAP DOOR-FRE SUB L	AW-PJT,ABS,Snow-White,EASY-HANDLE	1	
1-2	DA67-01993A	CAP DOOR-FRE SUB R	AW-PJT,ABS,I-BLACK,EASY-HANDLE	1	
1-2	DA67-01993B	CAP DOOR-FRE SUB R	AW-PJT,ABS,CREAMY-STS,EASY-HANDLE	1	
1-2	DA67-01993C	CAP DOOR-FRE SUB R	AW-PJT,ABS,Snow-White,EASY-HANDLE	1	
2	DA97-05557B	ASSY-GASKET DOOR FRE	AW-PJT,GRAY,TD-SECT	1	
3	DA61-03153B	HANGER-RAIL FRONT L	AW,SECC1,T2.0,COOL-WHITE	1	
4	DA61-03155B	HANGER-RAIL FRONT R	AW-PJT,SECC1,T2.0,COOL-WHITE	1	
5	DA61-02904B	SUPPORT DOOR POSITION IN	AW-PJT,HIPS,NTR	2	
6	DA97-06429A	ASSY HANDLE-BAR FRE(EASY)	AW-PJT,MATURE BLACK	1	
6-1	DA64-02527A	HANDLE-BAR FRE	AW-PJT,AL,MATURE-BLACK,EASY-HANDLE	1	
6-2	DA67-01995A	CAP-HANDLE FRE L	AW-PJT,PC,i-BLACK,EASY-HANDLE	1	
6-3	DA67-01996A	CAP-HANDLE FRE R	AW-PJT,PC,i-BLACK,EASY-HANDLE	1	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	
6-5	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,	4	
6	DA97-06429B	ASSY HANDLE-BAR FRE(EASY)	AW-PJT,Versailles-STS,Versailles-Silver	1	
6-1	DA64-02527B	HANDLE-BAR FRE	AW-PJT,AL,Versailles-Silver,EASY-HANDLE	1	
6-2	DA67-01995B	CAP-HANDLE FRE L	AW-PJT,PC,Versailles-Stainless,EASY-HANDLE	1	
6-3	DA67-01996B	CAP-HANDLE FRE R	AW-PJT,PC,Versailles-Stainless,EASY-HANDLE	1	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	
6-5	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,	4	
6	DA97-06429C	ASSY HANDLE-BAR FRE(EASY)	AW-PJT,SNOW WHITE	1	
6-1	DA64-02527C	HANDLE-BAR FRE	AW-PJT,AL,Snow-White,EASY-HANDLE	1	
6-2	DA67-01995C	CAP-HANDLE FRE L	AW-PJT,PC,Snow-White,EASY-HANDLE	1	
6-3	DA67-01996C	CAP-HANDLE FRE R	AW-PJT,PC,Snow-White,EASY-HANDLE	1	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	
6-5	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,	4	
6	DA97-06429D	ASSY HANDLE-BAR FRE(EASY)	AW-PJT,NEW VERSAILLES SILVER,SANDING	1	
6-1	DA64-02527D	HANDLE-BAR FRE	AW-PJT,AL,Versailles-Silver(sanding),EASY-HANDLE	1	
6-2	DA67-01995B	CAP-HANDLE FRE L	AW-PJT,PC,Versailles-Stainless,EASY-HANDLE	1	
6-3	DA67-01996B	CAP-HANDLE FRE R	AW-PJT,PC,Versailles-Stainless,EASY-HANDLE	1	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	
6-5	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,	4	
7	DA61-03762A	SUPPORT-GUARD FRE L	AW-PJT(BEST),HIPS(HG-1760SF),COOL-WHITE	1	
8	DA61-03763A	SUPPORT-GUARD FRE R	AW-PJT(BEST),HIPS(HG-1760SF),COOL-WHITE	1	
9	DA97-04880A	ASSY GUARD FRE	AW-PJT,COOL-WHT	1	
9-1	DA63-03458A	GUARD-FRE	AW-PJT,HIPS(HR1360),COOL-WHITE	1	
9-2	DA63-03459A	GUARD-FRE FLIP	AW-PJT,HIPS(HR1360),COOL-WHITE	1	
10	DA61-04254A	FIXER-SHAFT HANDLE L	AW-PJT,POM,-,NTR,EASY-HANDLE	2	
11	DA61-04255A	FIXER-SHAFT HANDLE R	AW-PJT,POM,-,NTR,EASY-HANDLE	2	
12	DA61-04258A	SLIDER-HANDLE FRE	AW-PJT,POM,EASY-HANDLE	2	
13	DA63-04247A	COVER-HANDLE FRE L	AW-PJT,ABS,I-BLACK,EASY-HANDLE	1	
13	DA63-04247B	COVER-HANDLE FRE L	AW-PJT,ABS,CREAMY-STS,EASY-HANDLE	1	
13	DA63-04247C	COVER-HANDLE FRE L	AW-PJT,ABS,Snow-White,EASY-HANDLE	1	
14	DA63-04248A	COVER-HANDLE FRE R	AW-PJT,ABS,I-BLACK,EASY-HANDLE	1	
14	DA63-04248B	COVER-HANDLE FRE R	AW-PJT,ABS,CREAMY-STS,EASY-HANDLE	1	
14	DA63-04248C	COVER-HANDLE FRE R	AW-PJT,ABS,Snow-White,EASY-HANDLE	1	

EXPLODED VIEW & PARTS LIST

■ Parts List of Freezer Door

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
15	DA61-04335A	SPRING ETC-EASY HANDLE	08 AW1,2-PJT,HSWR	2	

5-5) Disassembly of Refrigerator DoorLeft



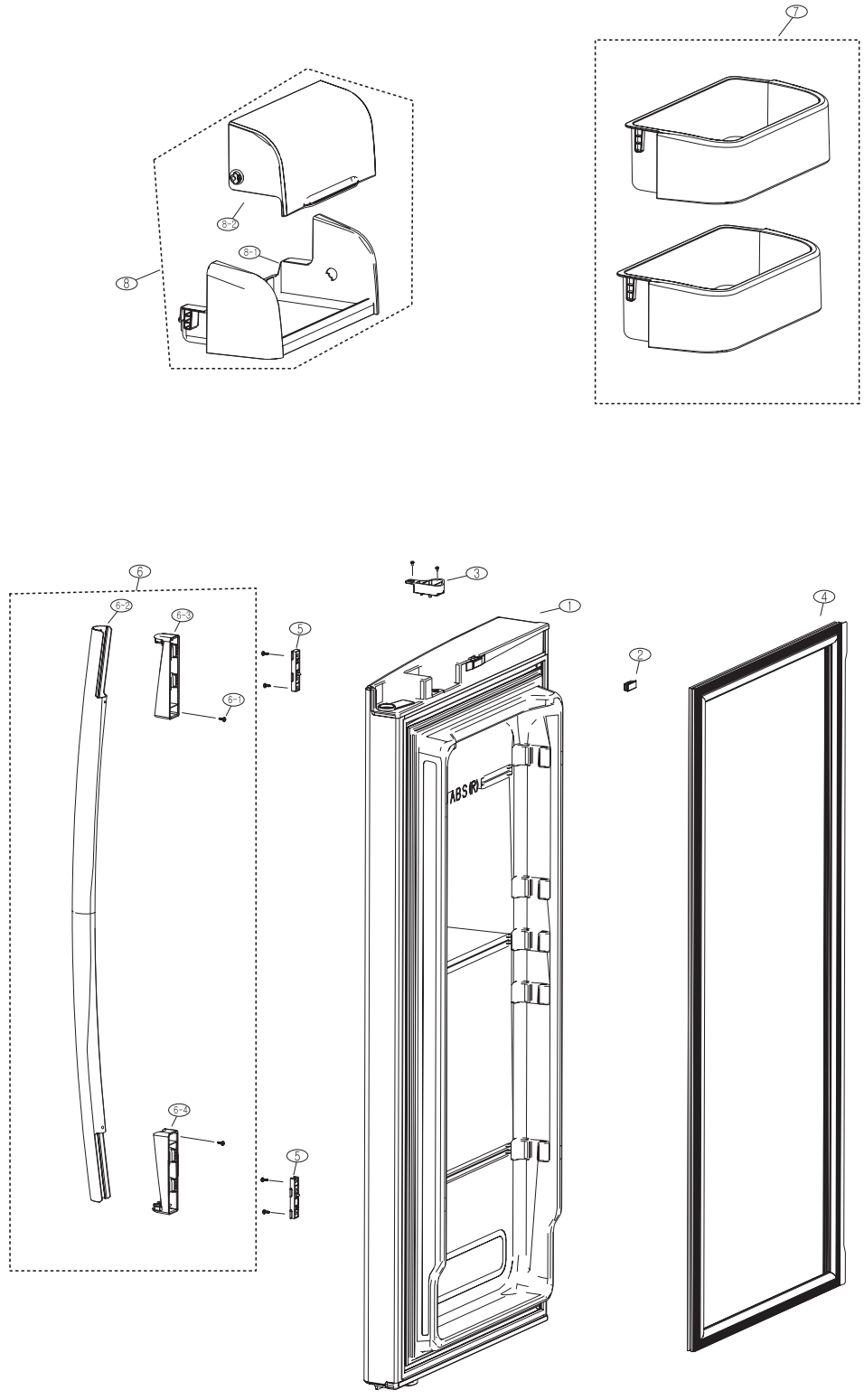
■ Parts List of Refrigerator Door-Left

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA91-02460A	ASSY DOOR FOAM REF L	AW-PJT,Empire-Black,i-BLACK	1	
1	DA91-02460B	ASSY DOOR FOAM REF L	AW-PJT,Versailles STS,Noble-STS	1	
1	DA91-02460C	ASSY DOOR FOAM REF L	AW-PJT, Snow-White	1	
1	DA91-02460D	ASSY DOOR FOAM REF L	AW-PJT, Platinum-STS,Noble-STS	1	
2	DA61-02738E	MAGNET-ASS'Y	CORE-PJT, T5,W7,L18,i-BLACK	1	
2	DA61-02738F	MAGNET-ASS'Y	CORE-PJT,T5,W7,L18 ,Creamy-gray	1	
2	DA61-02738A	MAGNET-ASS'Y	CORE-PJT,T5,W7,L18 ,Snow-White	1	
3	DA66-00442A	CAM AUTO CLOSE L	AW-PJT, Nylon6,i-BLACK	1	
3	DA66-00442B	CAM AUTO CLOSE L	AW-PJT, Nylon6,Creamy-STS	1	
3	DA66-00442C	CAM AUTO CLOSE L	AW-PJT, Nylon6,Snow-White	1	
4	DA97-04954A	ASSY-GASKET DOOR REF	AW-PJT,W404,L978 ,BLACK	1	
4	DA97-04954B	ASSY-GASKET DOOR REF	AW-PJT,W404,L978 ,GRAY	1	
4	DA97-05253B	ASSY-GASKET DOOR REF	AW-PJT,W404,L978,WHITE	1	
5	DA61-02984A	FIXER-HANDLE	ATOP 06,POM,NTR,	2	
6	DA97-04417N	ASSY HANDLE-BAR	ATOP 06,MATURE-BLACK,i-BLACK	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979A	HANDLE BAR	ATOP 06,AL(A6063),MATURE-BLACK	1	
6-3	DA67-01527E	CAP-HANDLE UPP	ATOP06,ABS(HG0760),i-BLACK	1	
6-4	DA67-01528E	CAP-HANDLE LOW	ATOP06,ABS(HG0760),i-BLACK	1	
6	DA97-04417J	ASSY HANDLE-BAR	ATOP06,,Versailles-STS,Versailles-Silver	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979E	HANDLE BAR	ATOP 06,AL(A6063),Versailles-STS(STRIPE HAIRLINE)	1	
6-3	DA67-01527F	CAP-HANDLE UPP	ATOP06,ABS(HG0760),Versailles-Silver	1	
6-4	DA67-01528F	CAP-HANDLE LOW	ATOP06,ABS(HG0760),Versailles-Silver	1	
6	DA97-04417D	ASSY HANDLE-BAR	ATOP 06,Snow-White	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979D	HANDLE BAR	ATOP 06,AL(A6063),Snow-White	1	
6-3	DA67-01527D	CAP-HANDLE UPP	ATOP06,ABS(HG0760),Snow-White	1	
6-4	DA67-01528D	CAP-HANDLE LOW	ATOP06,ABS(HG0760),Snow-White	1	
6	DA97-04417K	ASSY HANDLE-BAR	ATOP-06,Versailles-STS,Platinum-STS(SANDING)	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979B	HANDLE BAR	ATOP-06,AL(A6063),Versailles-STS	1	
6-3	DA67-01527F	CAP-HANDLE UPP	ATOP06,ABS(HG0760),Versailles-STS(SANDING)	1	
6-4	DA67-01528F	CAP-HANDLE LOW	ATOP06,ABS(HG0760),Versailles-STS(SANDING)	1	
7	DA63-03467A	GUARD-REF	AW-PJT,PP(BJ730),COOL -WHITE(SC02740R)	3	
8	DA63-04396A	TRAY-UTILITY	AW2,GPPS	1	
9	DA97-05021N	ASSY-FRENCH	AW-PJT,8W,Black,AW08_BEST	1	
9-1	DA47-00245C	HEATER CORD-FRENCH	AW-PJT,P-CORD,8W,115V,1653 Ω,FRENCH	1	
9-2	DA61-03207A	PLATE-FRENCH	AW-PJT,SECC1,T0.8,ALL-BLACK	1	
9-3	DA61-03230B	HINGE-FRENCH	AW-PJT,PC(HF-1023IM),COOL-WHITE	2	
9-4	DA61-03234A	CASE-FRENCH	AW-PJT,ABS,SNOW-WHITE	1	
9-5	DA62-01387A	INSULATION-FRENCH	AW-PJT,FOAMPS	1	
9-6	DA63-03454B	COVER-HEATER FRENCH	AW-PJT,PC(HF-1023IM),COOL-WHITE	1	
9-7	DA63-03508A	GASKET-FRENCH	AW-PJT,SILICON,BLACK	2	
9-8	DA67-01650A	CAP-CASE FRENCH	AW-PJT,ABS,SNOW-WHITE	2	
9-9	DA67-01701A	CAP-CASE FRENCH MID	AW-PJT,ABS,SNOW-WHITE	1	
9-10	DA81-01345A	SPRING-ETC FRENCH	STS304,PI1.4	1	
9-11	DA81-01346A	PIN-FRENCH SPRING	RDPVC,WHITE	1	
9-12	6002-000213	SCREW TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A	1	
9	DA97-05021P	ASSY-FRENCH	AW-PJT,8W,Thai Silver,AW08_BEST		
9-1	DA47-00245C	HEATER CORD-FRENCH	AW-PJT,P-CORD,8W,115V,1653 ßÝ,FRENCH	1	
9-2	DA61-03207B	PLATE-FRENCH	AW-PJT,SECC1,T0.8	1	

■ Parts List of Refrigerator Door-Left

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
9-3	DA61-03230B	HINGE-FRENCH	AW-PJT,PC(HF-1023IM),COOL-WHITE	2	
9-4	DA61-03234A	CASE-FRENCH	AW-PJT,ABS,SNOW-WHITE	1	
9-5	DA62-01387A	INSULATION-FRENCH	AW-PJT,FOAMPS	1	
9-6	DA63-03454B	COVER-HEATER FRENCH	AW-PJT,PC(HF-1023IM),COOL-WHITE	1	
9-7	DA63-03508B	GASKET-FRENCH	AW-PJT,SILICON,GRAY	2	
9-8	DA67-01650A	CAP-CASE FRENCH	AW-PJT,ABS,SNOW-WHITE	2	
9-9	DA67-01701A	CAP-CASE FRENCH MID	AW-PJT,ABS,SNOW-WHITE	1	
9-10	DA81-01345A	SPRING-ETC FRENCH	STS304,PI1.4	1	
9-11	DA81-01346A	PIN-FRENCH SPRING	RDPVC,WHITE	1	
9-12	6002-000213	SCREW TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A	1	
9	DA97-05021Q	ASSY-FRENCH	AW-PJT,8W,White,AW08_BEST		
9-1	DA47-00245C	HEATER CORD-FRENCH	AW-PJT,P-CORD,8W,115V,1653 Ω,FRENCH	1	
9-2	DA61-03207C	PLATE-FRENCH	AW-PJT,SECC1,T0.8,SNOW-WHITE	1	
9-3	DA61-03230B	HINGE-FRENCH	AW-PJT,PC(HF-1023IM),COOL-WHITE	2	
9-4	DA61-03234A	CASE-FRENCH	AW-PJT,ABS,SNOW-WHITE	1	
9-5	DA62-01387A	INSULATION-FRENCH	AW-PJT,FOAMPS	1	
9-6	DA63-03454B	COVER-HEATER FRENCH	AW-PJT,PC(HF-1023IM),COOL-WHITE	1	
9-7	DA63-03508C	GASKET-FRENCH	AW-PJT,SILICON,WHITE	2	
9-8	DA67-01650A	CAP-CASE FRENCH	AW-PJT,ABS,SNOW-WHITE	2	
9-9	DA67-01701A	CAP-CASE FRENCH MID	AW-PJT,ABS,SNOW-WHITE	1	
9-10	DA81-01345A	SPRING-ETC FRENCH	STS304,PI1.4	1	
9-11	DA81-01346A	PIN-FRENCH SPRING	RD-PVC,WHITE	1	
9-12	6002-000213	SCREW TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A	1	
10	DA67-30218R	CAP-SCREW	PP,SC97527R,SNOW WHITE	2	

5-6) Disassembly of Refrigerator Door Right



EXPLODED VIEW & PARTS LIST

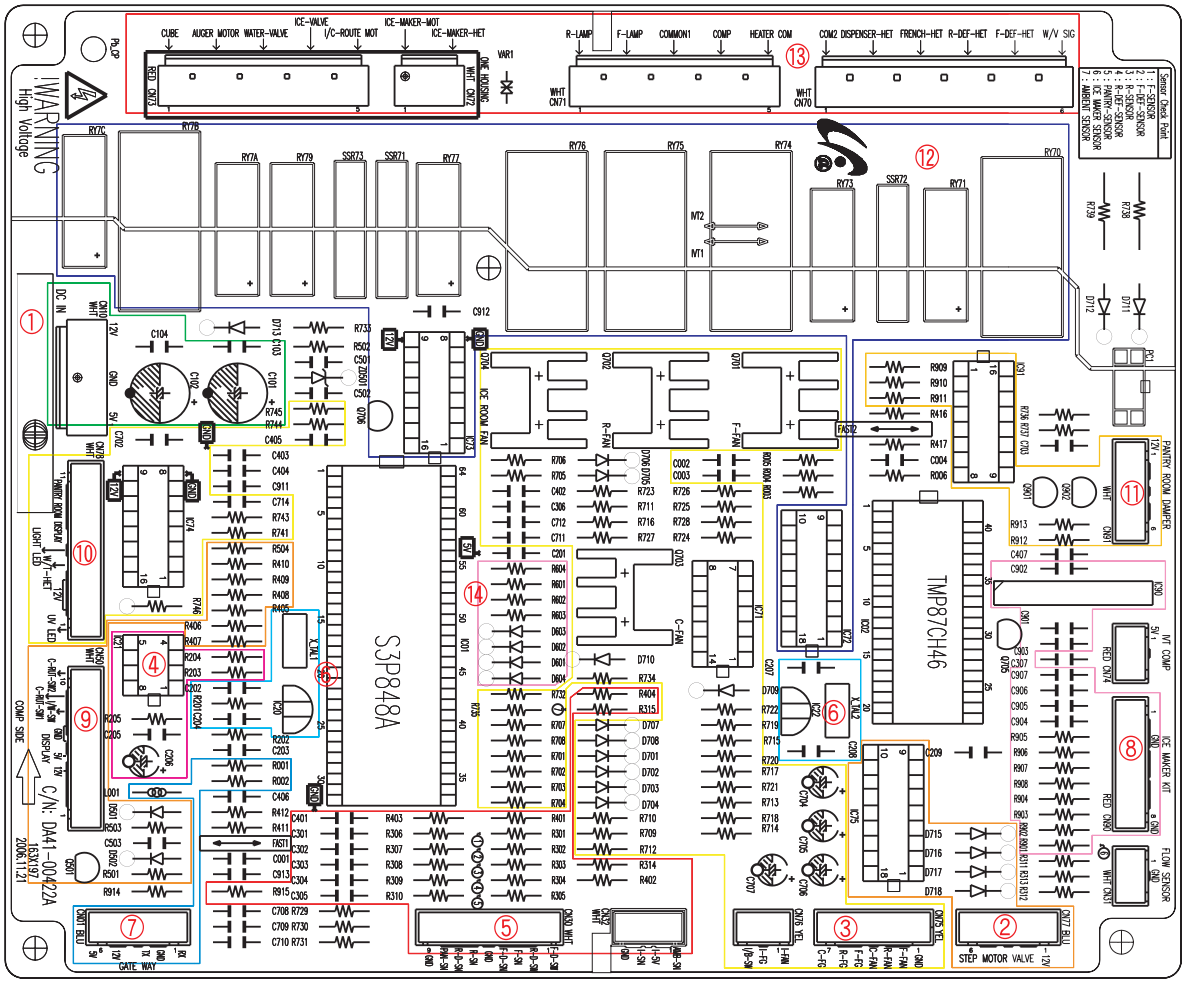
■ Parts List of Refrigerator Door-Right

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA91-02461A	ASSY DOOR FOAM REF R	AW-PJT,Empire-Black,i-BLACK	1	
1	DA91-02461B	ASSY DOOR FOAM REF R	AW-PJT,Versailles STS,Noble-STS	1	
1	DA91-02461C	ASSY DOOR FOAM REF R	AW-PJT,Snow-White	1	
1	DA91-02461C	ASSY DOOR FOAM REF R	AW-PJT,Platinum-STS,Noble-STS	1	
2	DA61-02738E	MAGNET-ASS'Y	CORE-PJT,T5,W7,L18,i-BLACK	1	
2	DA61-02738F	MAGNET-ASS'Y	CORE-PJT,T5,W7,L18,Creamy-gray	1	
2	DA61-02738A	MAGNET-ASS'Y	CORE-PJT,T5,W7,L18,Snow-White	1	
3	DA66-00441A	CAM AUTO CLOSE R	AW-PJT,Nylon6,i-BLACK	1	
3	DA66-00441B	CAM AUTO CLOSE R	AW-PJT,Nylon6,Creamy-STS	1	
3	DA66-00441C	CAM AUTO CLOSE R	AW-PJT,Nylon6,Snow-White	1	
4	DA97-04954A	ASSY-GASKET DOOR REF	AW-PJT,W404,L978,BLACK	1	
4	DA97-04954B	ASSY-GASKET DOOR REF	AW-PJT,W404,L978,GRAY	1	
4	DA97-05253B	ASSY-GASKET DOOR REF	AW-PJT,WHITE	1	
5	DA61-02984A	FIXER-HANDLE	ATOP 06,POM,NTR	2	
6	DA97-04417N	ASSY HANDLE-BAR	ATOP 06,MATURE-BLACK,i-BLACK	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979A	HANDLE BAR	ATOP 06,AL(A6063),MATURE-BLACK	1	
6-3	DA67-01527E	CAP-HANDLE UPP	ATOP06,ABS(HG0760),i-BLACK	1	
6-4	DA67-01528E	CAP-HANDLE LOW	ATOP06,ABS(HG0760),i-BLACK	1	
6	DA97-04417J	ASSY HANDLE-BAR	ATOP06,,Versailles-STS,Versailles-Silver	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979E	HANDLE BAR	ATOP 06,AL(A6063),Versailles-STS(STRIPE HAIRLINE)	1	
6-3	DA67-01527F	CAP-HANDLE UPP	ATOP06,ABS(HG0760),Versailles-Silver	1	
6-4	DA67-01528F	CAP-HANDLE LOW	ATOP06,ABS(HG0760),Versailles-Silver	1	
6	DA97-04417D	ASSY HANDLE-BAR	ATOP 06,Snow-White	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979D	HANDLE BAR	ATOP 06,AL(A6063),Snow-White	1	
6-3	DA67-01527D	CAP-HANDLE UPP	ATOP06,ABS(HG0760),Snow-White	1	
6-4	DA67-01528D	CAP-HANDLE LOW	ATOP06,ABS(HG0760),Snow-White	1	
6	DA97-04417K	ASSY HANDLE-BAR	ATOP-06,Versailles-STS,Platinum-STS(SANDING)	1	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	
6-2	DA64-01979B	HANDLE BAR	ATOP-06,AL(A6063),Versailles-STS	1	
6-3	DA67-01527F	CAP-HANDLE UPP	ATOP06,ABS(HG0760),Versailles-STS(SANDING)	1	
6-4	DA67-01528F	CAP-HANDLE LOW	ATOP06,ABS(HG0760),Versailles-STS(SANDING)	1	
7	DA63-03467A	GUARD-REF	AW-PJT,PP(BJ730),COOLWHITE(SC02740R)	2	
8	DA97-04881B	ASSY GUARD-DAIRY	AW-PJT	1	
8-1	DA63-03455A	GUARD-DAIRY	AW-PJT,HIPS(HR1360),COOL-WHITE	1	
8-2	DA63-03462A	COVER-GUARD DAIRY	AW-PJT,GPPS(HF2660)	1	

6. PCB Layout with part position

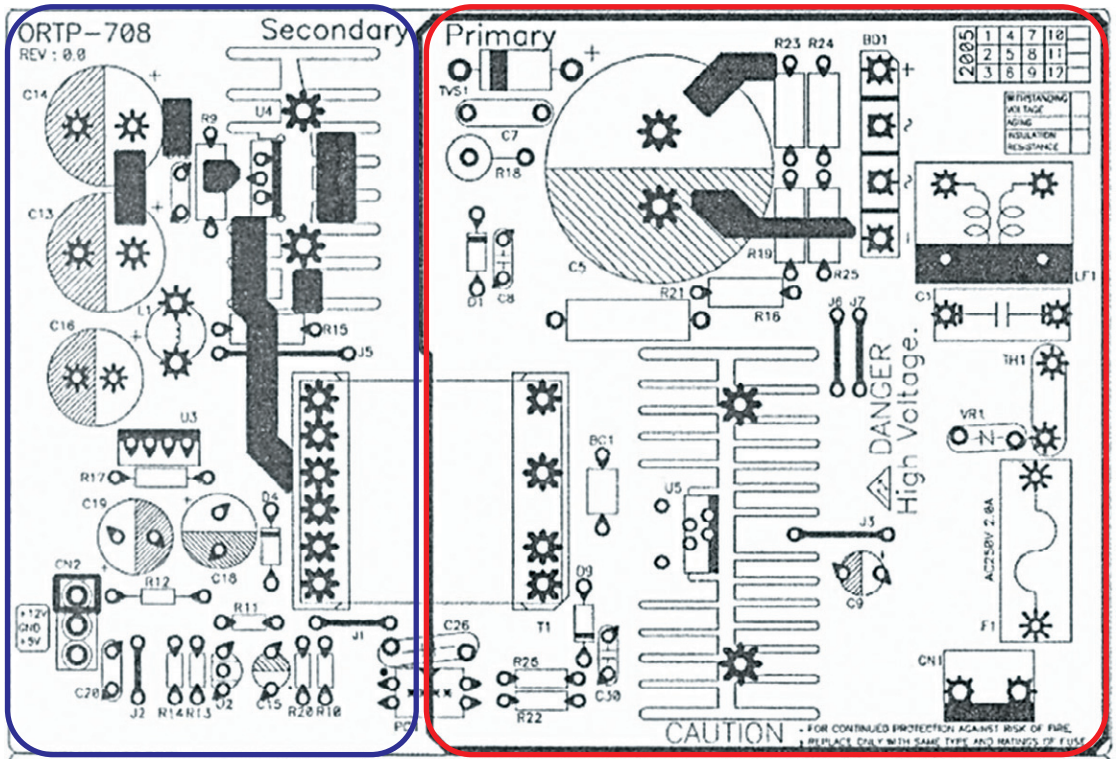
PCB Layout with part position

6-1) PCB Layout with part position



1. DC12V,5V,GND supplied from SMPS PCB
2. Circuit for controlling Step-Valve (3-Way Valve) * Option
3. FAN MOTOR control part : To supply the power from 8.3V ~ 12V according to the motor types. (F,R,C,ICE)
4. EEPROM : Save and record every kinds of data.
5. Transmit inputted signals from every sensor into MICOM after eliminate the noise .
6. Micom : control the refrigerator Ceramic resonator : generate the basic frequency of Micom operation.
   Reset IC : make Micom reset if input voltage of Micom is detected less than the specified voltage
7. PLC input/output
   - PLC (Power Line communication) * Option(PLC module is not inserted unlessspecified occasion)
8. Operate ICE-MAKER, supply power to MOTOR, and sense the variation of switch.
9. Main Micom↔ Panel Micom serial communication circuit
   - Dispenser option input part (Water & Cover Ice route switch)
10. Pantry room display control part : display LED, detect KEY state.
11. Control Pantry room damper & Damper heater
12. Relay part for controlling the AC load : Relay control IC makes the relay ON/OFF by Micom signal.
13. Connector part : connect AC load
14. Diode option setting part

6-2) PCB Layout with part position (SMPS Board)



Switching mode power supply

Circuit : change the AC voltage to DC voltage that needs for controlling the appliance.

1. BLOCK : Rectify the inputted AC voltage to DC voltage
2. BLOCK : Change the rectified DC voltage to DC12V & DC5V that needs for controlling the appliance with PWM IC and switching trans.

PCB Layout with part position

6-3) Connector Layout with part position (Main Board)

6-3-1. RF266**

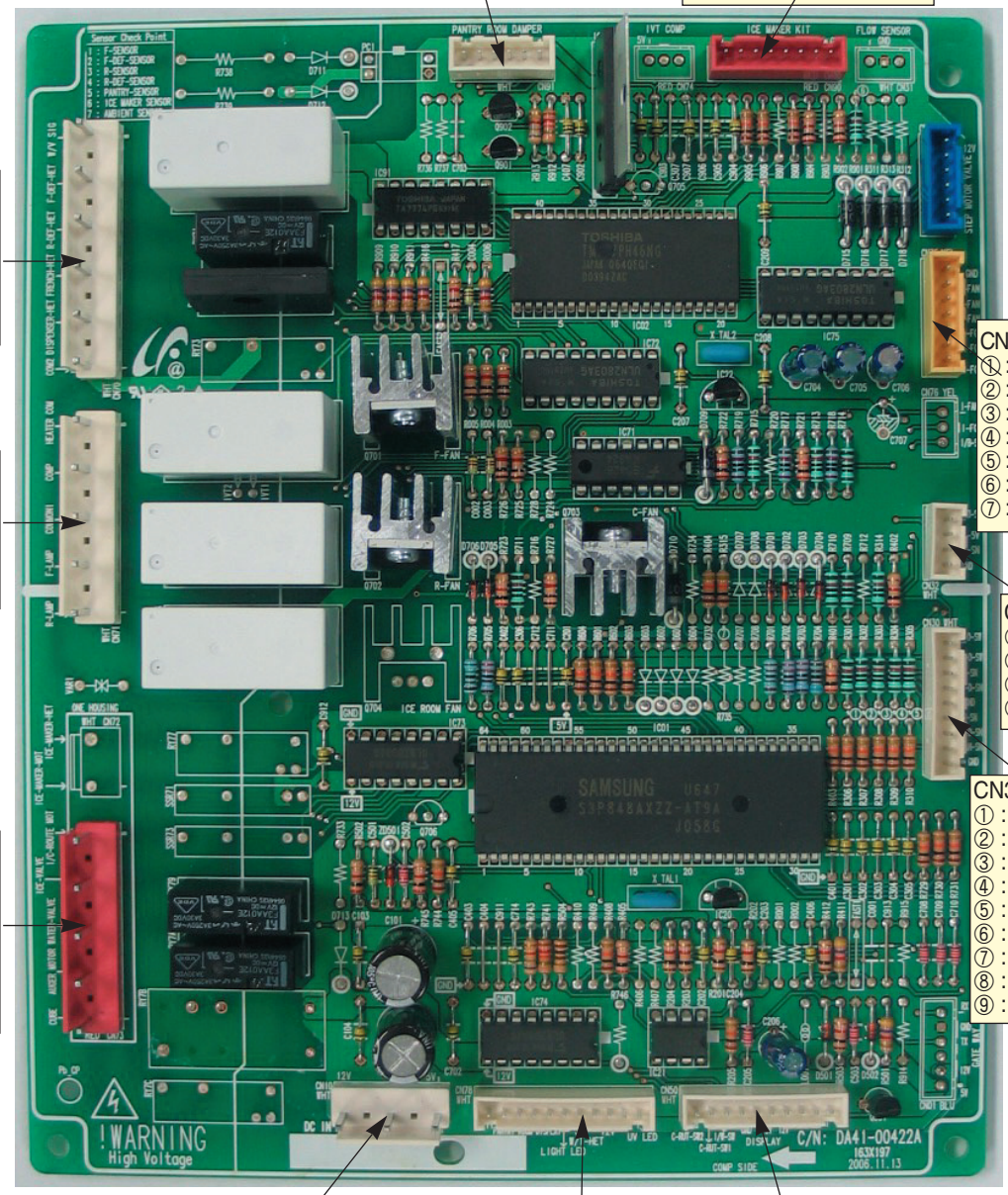
CN90 - Ice Maker
①~ ② : Motor
③ : GND
④ : Sensor
⑤ : Test Switch
⑥ : +5V
⑦ : Horizontal Switch
⑧ : GND

CN91 - Pantry Room
①~② : Damper Heater
③~⑥ : Damper Motor

CN70 - AC LOAD
① : COMMON LINE(L)
③ : OPEN
⑤ : FRENCH HEATER
⑦ : R-DEF-HEATER
⑨ : F-DEF-HEATER
⑪ : OPEN

CN71 - AC LOAD
① : R-LAMP
③ : F-LAMP
⑤ : COMMON LINE(N)
⑦ : COMP.
⑨ : HEATER COMMON

CN73 - AC LOAD
① : OPEN
③ : OPEN
⑤ : WATER SOLENOIDE VALVE
⑦ : ICE WATER SOLENOIDE VALVE
⑨ : OPEN



CN75 - BLDC Motor
① : GND
② : F-FAN operation signal
③ : R-FAN operation signal
④ : C-FAN operation signal
⑤ : F-FAN signal input volt
⑥ : R-FAN signal input volt
⑦ : C-FAN signal input volt

CN32 - Sensor
① : Ambient
② : OPEN
③ : OPEN
④ : GND

CN30 - Sensor & Switch
① : F-Door Switch
② : R-Door Switch
③ : F-Sensor
④ : F-DEF-Sensor
⑤ : GND
⑥ : R-Sensor
⑦ : R-DEF-Sensor
⑧ : Pantry-Sensor
⑨ : GND

① : +5V
③ : GND
⑤ : +12V

CN78
①~⑥ : OPEN
⑦~⑧ : Pantry room LED Driver
⑨ : +12V
⑩ : Display Switch input
⑪ : GND

CN50
① : LCD Panel SO
② : LCD Panel SI
③ : LCD Panel /SCK
④ : +12V
⑤ : +5V
⑥ : GND
⑦ : GND
⑧ : Water Switch
⑨~⑩ : OPEN

PCB Layout with part position

6-3-2. RF265**

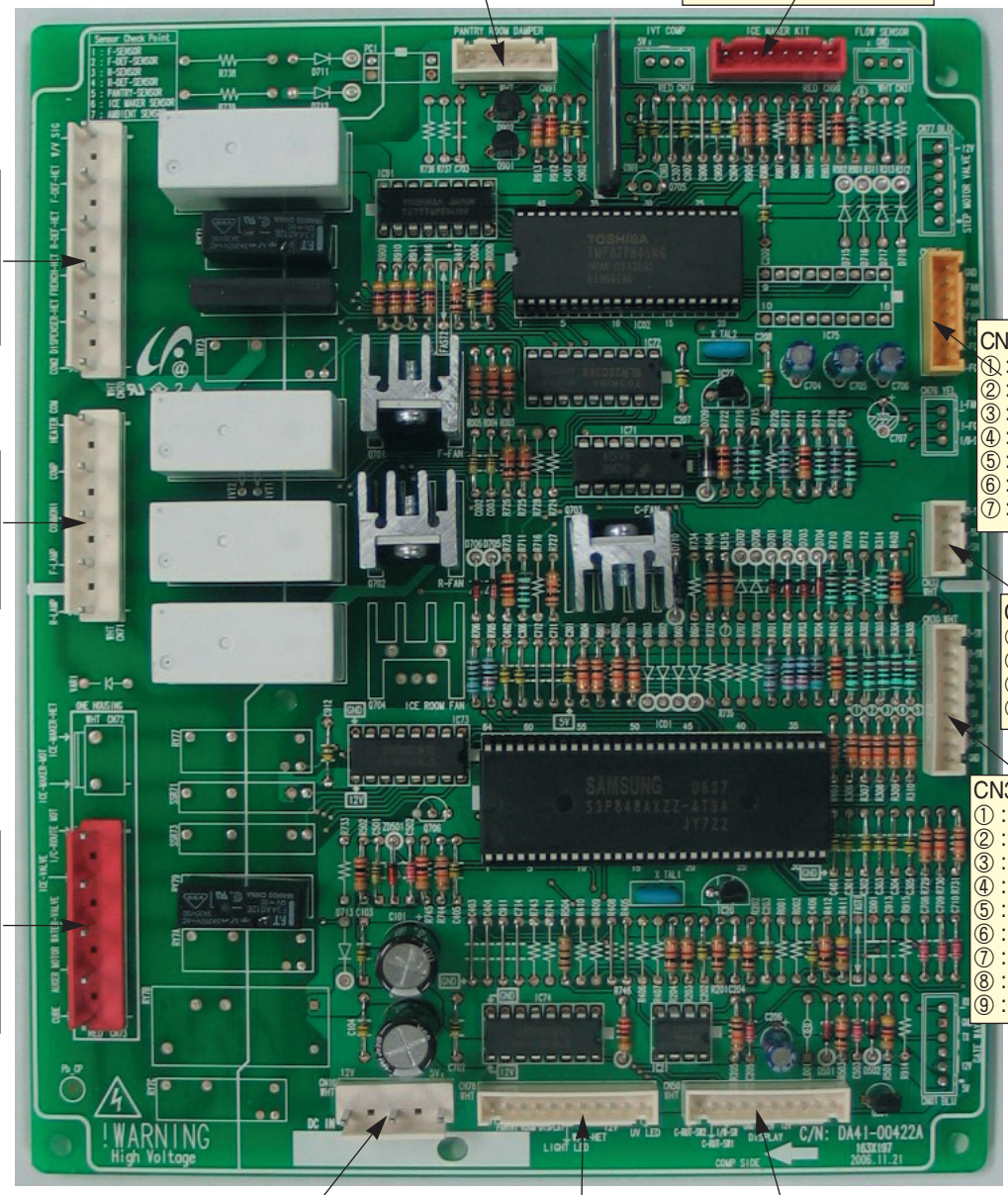
CN90 - Ice Maker
①~ ② : Motor
③ : GND
④ : Sensor
⑤ : Test Switch
⑥ : +5V
⑦ : Horizontal Switch
⑧ : GND

CN91 - Pantry Room
①~② : Damper Heater
③~⑥ : Damper Motor

CN70 - AC LOAD
① : COMMON LINE(L)
③ : OPEN
⑤ : FRENCH HEATER
⑦ : R-DEF-HEATER
⑨ : F-DEF-HEATER
⑪ : OPEN

CN71 - AC LOAD
① : R-LAMP
③ : F-LAMP
⑤ : COMMON LINE(N)
⑦ : COMP.
⑨ : HEATER COMMON

CN73 - AC LOAD
① : OPEN
③ : OPEN
⑤ : OPEN
⑦ : ICE WATER SOLENOIDE VALVE
⑨ : OPEN



CN75 - BLDC Motor
① : GND
② : F-FAN operation signal
③ : R-FAN operation signal
④ : C-FAN operation signal
⑤ : F-FAN signal input volt
⑥ : R-FAN signal input volt
⑦ : C-FAN signal input volt

CN32 - Sensor
① : Ambient
② : OPEN
③ : OPEN
④ : GND

CN30 - Sensor & Switch
① : F-Door Switch
② : R-Door Switch
③ : F-Sensor
④ : F-DEF-Sensor
⑤ : GND
⑥ : R-Sensor
⑦ : R-DEF-Sensor
⑧ : Pantry-Sensor
⑨ : GND

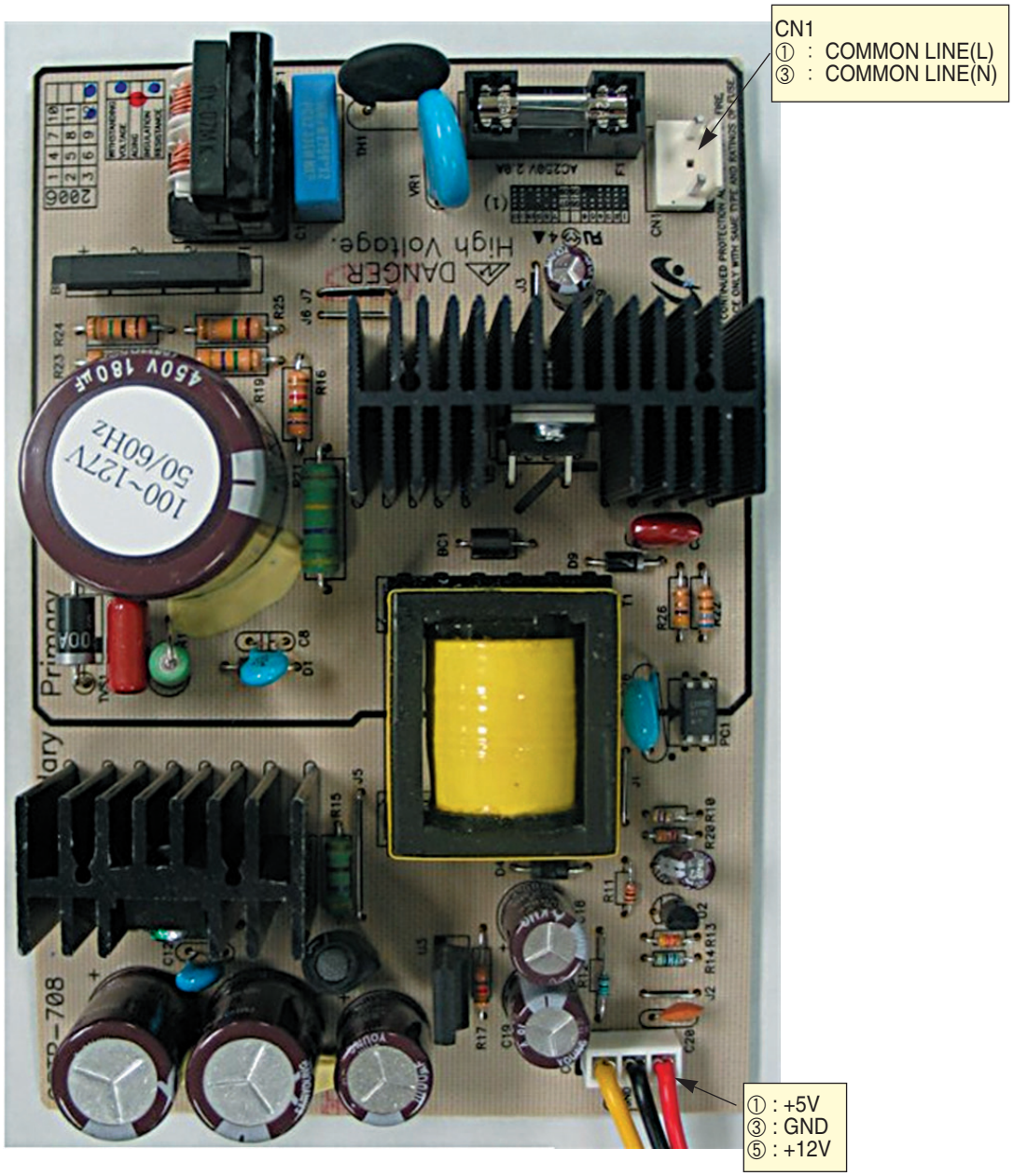
① : +5V
③ : GND
⑤ : +12V

CN78
①~⑥ : OPEN
⑦~⑧ : Pantry room LED Driver
⑨ : +12V
⑩ : Display Switch input
⑪ : GND

CN50
① : LCD Panel SO
② : LCD Panel SI
③ : LCD Panel /SCK
④ : +12V
⑤ : +5V
⑥ : GND
⑦ : GND
⑧~⑩ : OPEN

PCB Layout with part position

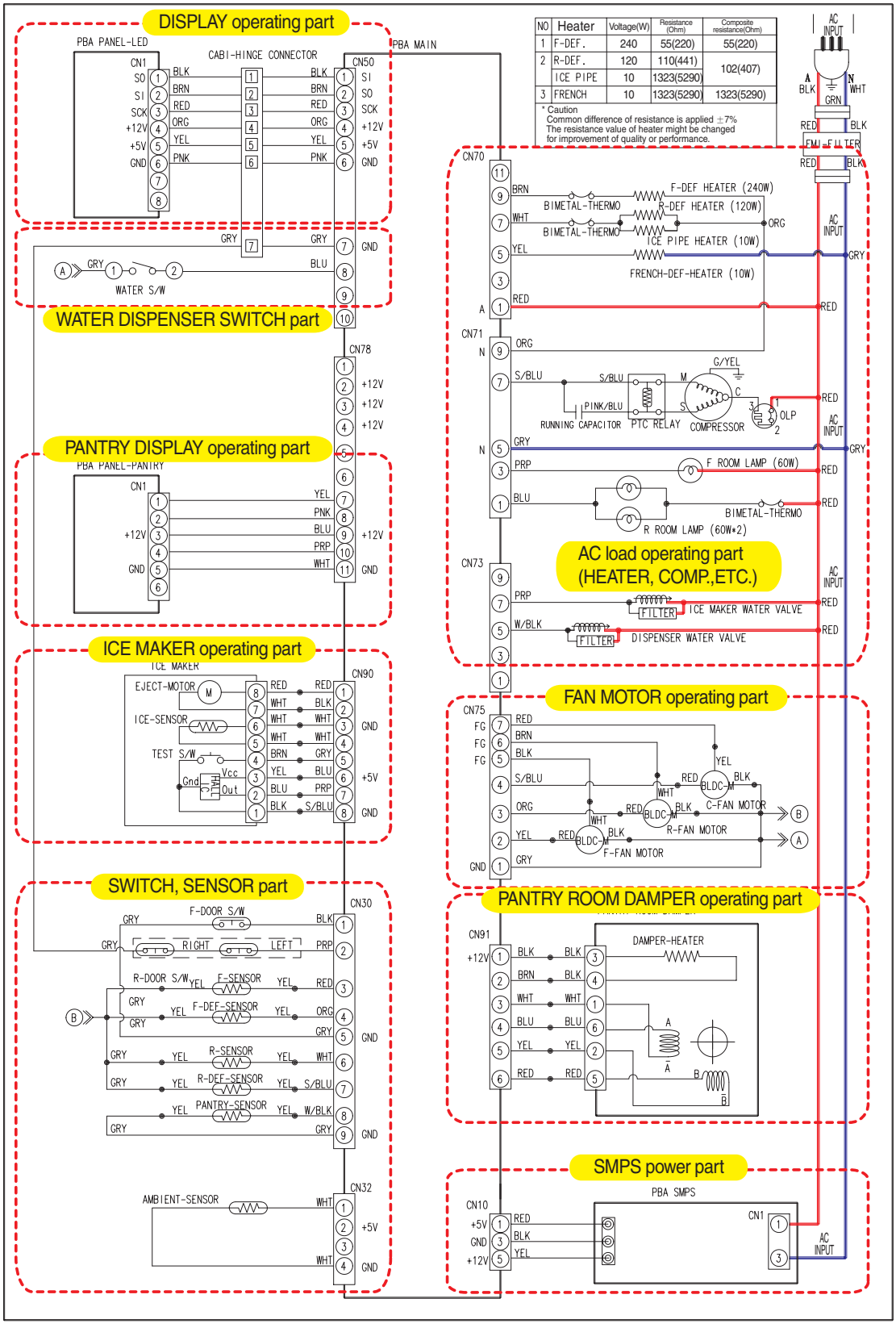
6-4) Connector Layout with part position (SMPS Board)



7. WIRING DIAGRAM SCHEMATIC

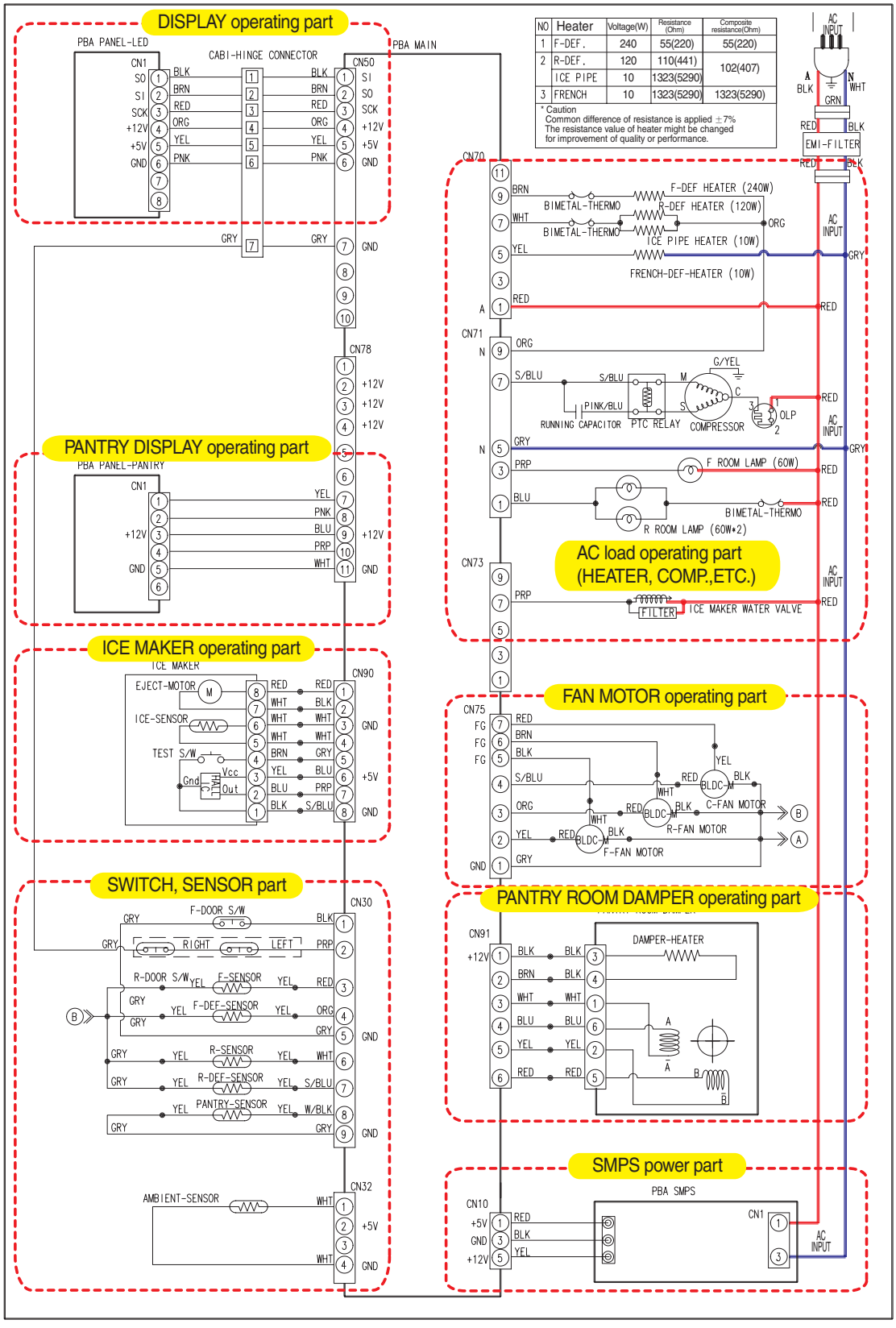
7. Wiring diagram

7-1) Model : RF266*



Wiring diagram

7-2) Model : RF265*

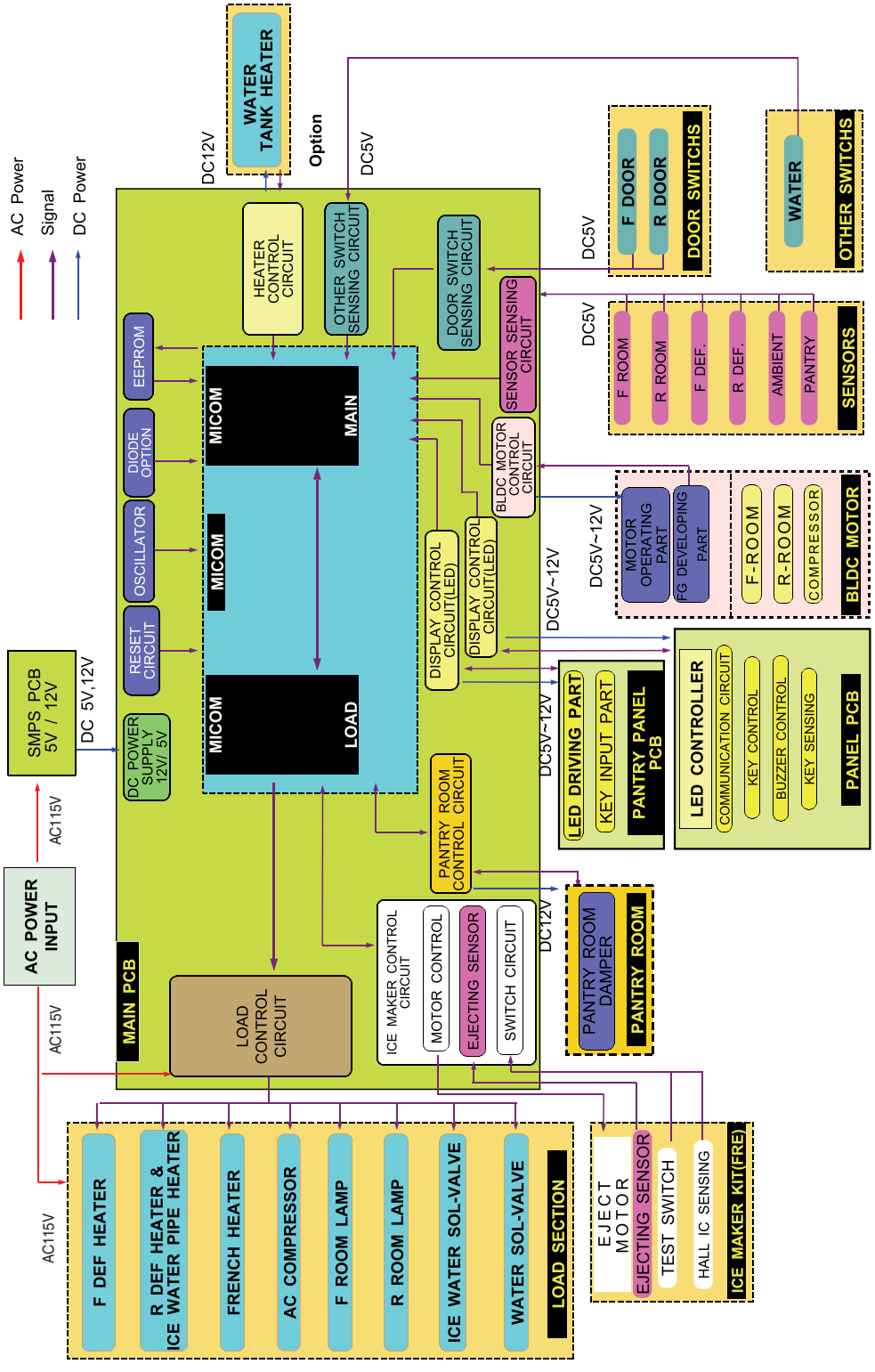


8. CIRCUIT PLAN

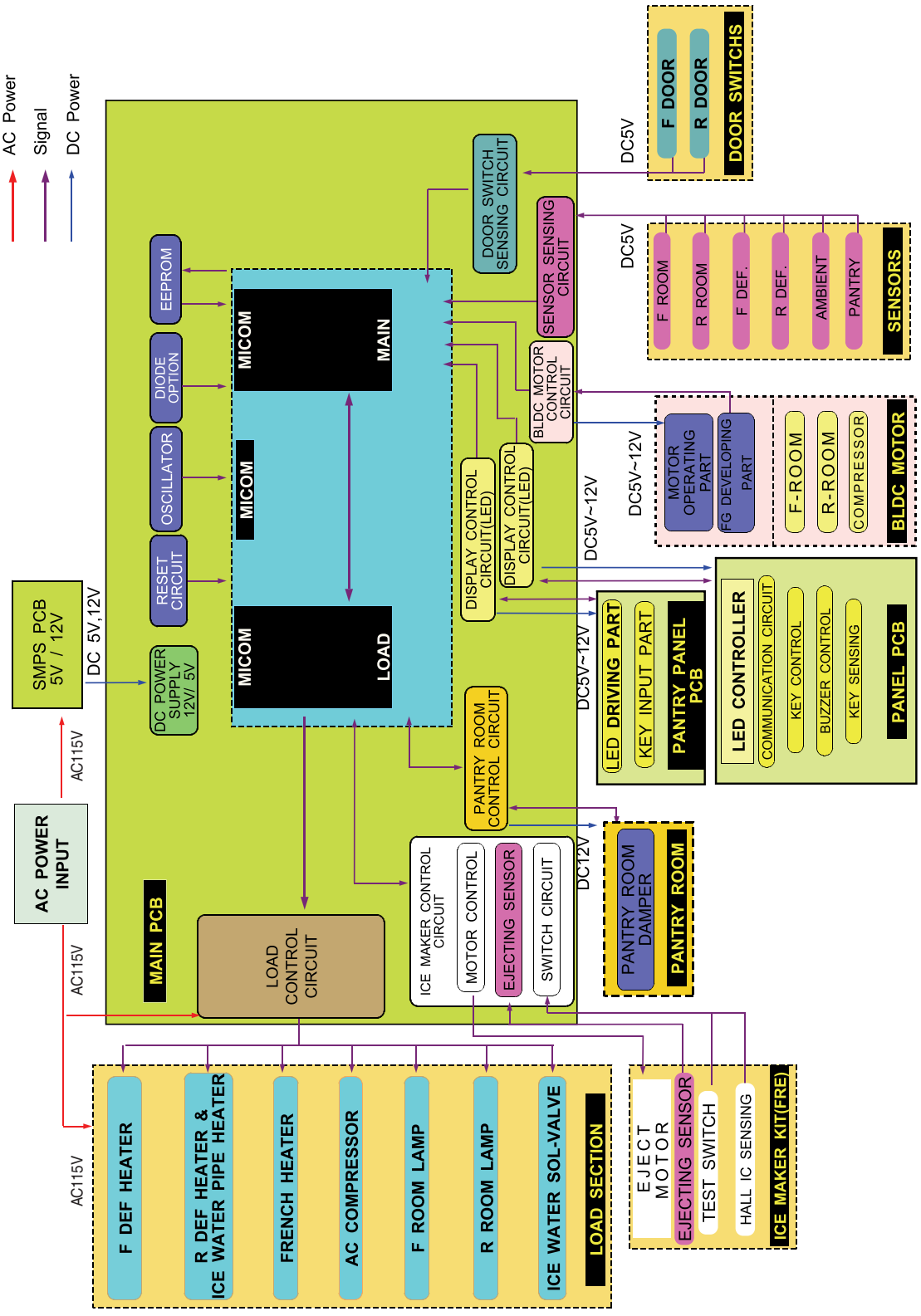
8. Shematic Diagram

8-1) Whole block diagram

8-1-1. MODEL : RF266**(BETTER)

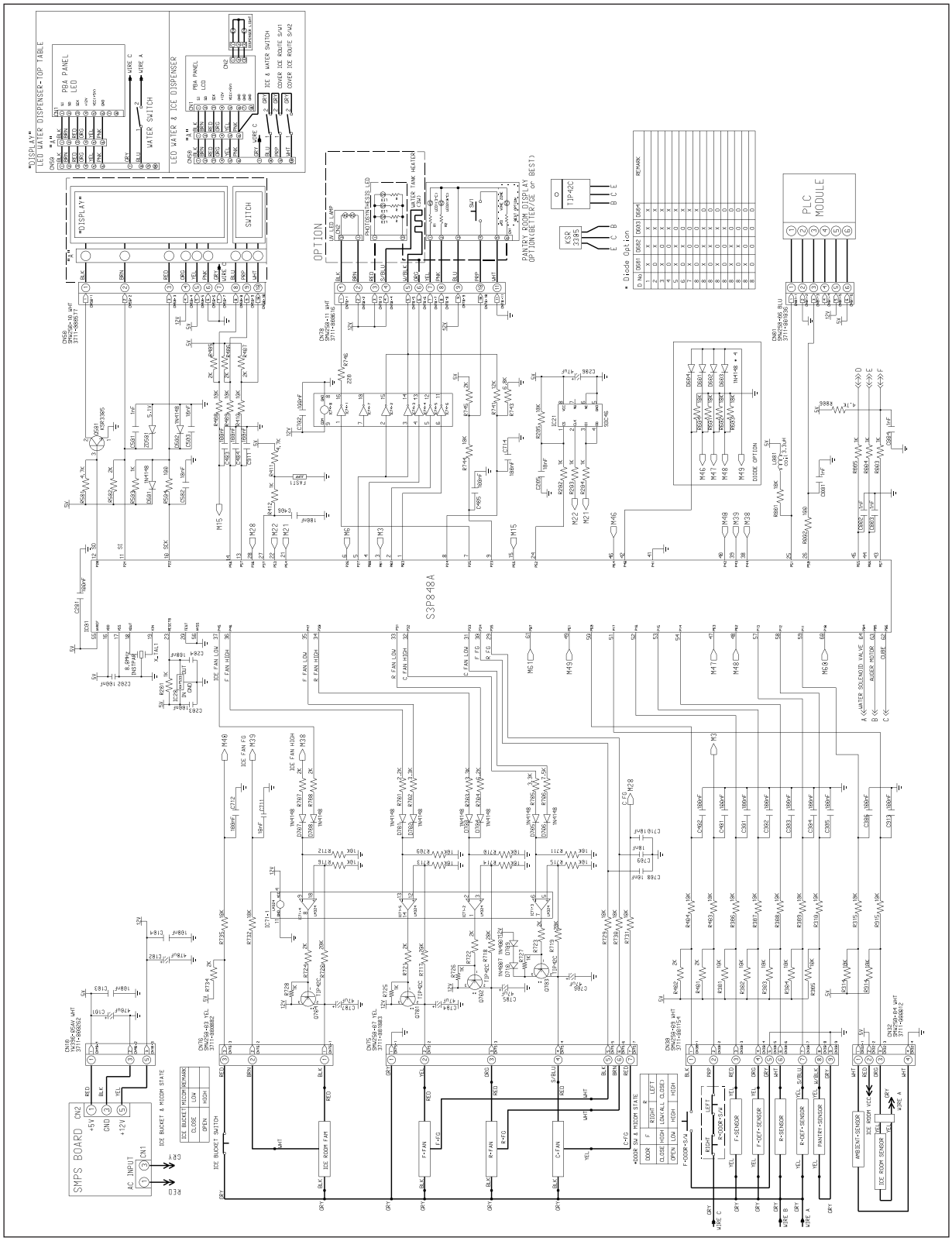


8-1-2. MODEL : RF265**(GOOD)



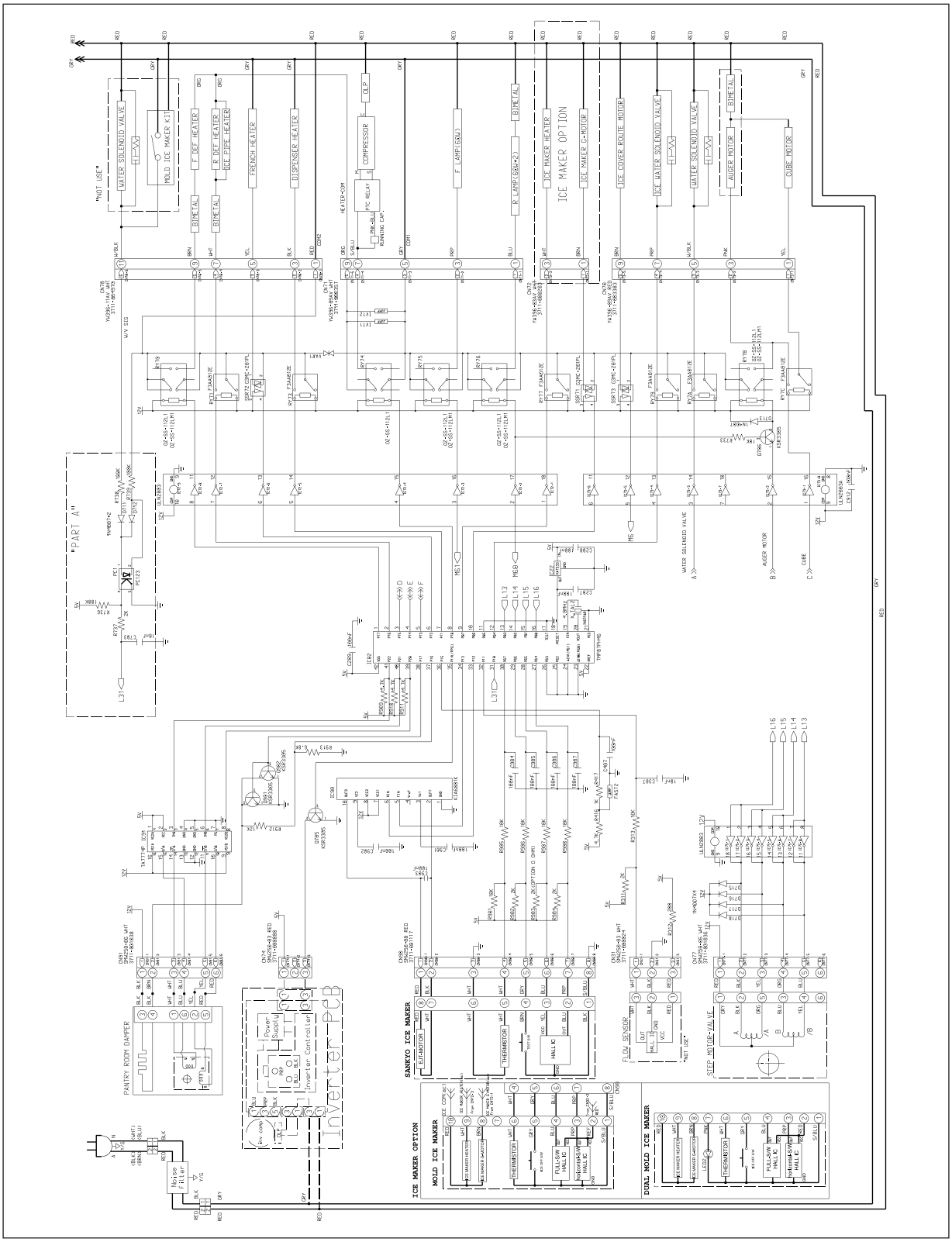
8-2) CIRCUIT DIAGRAM

8-2-1. Sheet 1 of 2

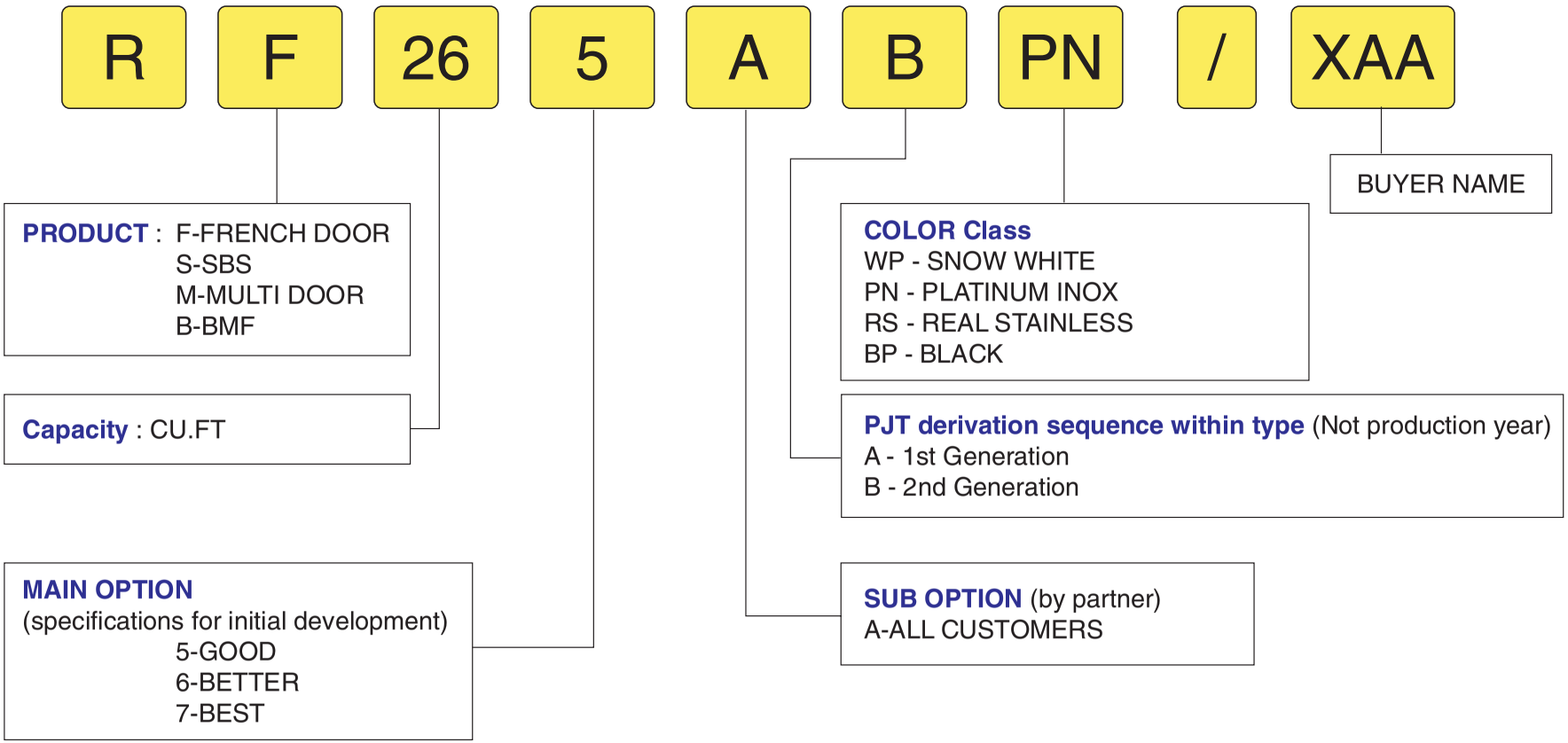


8-2) CIRCUIT DIAGRAM

8-2-2. Sheet 2 of 2



Model name (nomenclature)



WARNING

IMPORTANT SAFETY NOTICE

The service guide is for service men with adequate backgrounds of electrical, electronic, and technician experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or dealer cannot be responsible for the interpretation of this information.

SAMSUNG ELECTRONICS AMERICA, INC.

Technical Service Guide