



**SAMSUNG**

# REFRIGERATOR

**BOTTOM MOUNT FREEZER**

**BASIC : RF195AB/RF197AB/  
RF217AB**

**MODEL NAME :** RF195ABRS    RF195ABBP  
RF195ABWP    RF195ABPN  
RF197ABRS    RF197ABBP  
RF197ABWP    RF197ABPN  
RF217ABRS    RF217ABBP  
RF217ABWP    RF217ABPN

# ***SERVICE*** Manual

## REFRIGERATOR



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1. PRECAUTIONS(SAFETY WARNINGS)
2. PRODUCT SPECIFICATIONS
3. DISASSEMBLY AND REASSEMBLY
4. TROUBLESHOOTING
5. EXPLODED VIEW & PARTS LIST
6. PCB DIAGRAM
7. WIRING DIAGRAM
8. SCHEMATIC DIAGRAM

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



## **WARNING**

### **IMPORTANT SAFETY NOTICE**

The service guide is for service men with adequate backgrounds of electrical, electronic, and mechanical 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.

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*Technical Service Guide*

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## 1. PRECAUTIONS(SAFETY WARNINGS)

- Due to the risk of electric shock, be sure to unplug the unit before servicing.
- Use the right electronic equipment for your new Refrigerator.
  - ⇒ Make sure to check out the right model name, rated voltage and current, operating temperature, etc.
- Upon repair, make sure that harnesses are not to be water-penetrated and are bundled tight.
  - ⇒ Should not be detached by a certain amount of external force.
- Upon repair, completely remove dust or other foreign substances from housing, harness, connector, etc.
  - ⇒ To prevent fire by tracking, short, etc.
- After repair, check out the assembled state of parts.
  - ⇒ It should be the same as the previous state.
- Check out the surrounding conditions.
  - ⇒ Change the location, if the fridge is located at humid, wet places or the installed state is unstable.
- If needed, ground the fridge.
  - ⇒ Especially, if there is a possibility of electric leakage, ground is indispensable.
- Do not allow consumers to overload a certain outlet.
- Check out whether the power cord or the outlet is broken, squeezed, chopped off or heat-deformed.
  - ⇒ Repair or replace the defective power cord/outlet immediately.
  - ⇒ Make sure the power cord is not punctuated or stomped down.
- Do not allow consumers to keep food unstable or place bottles in the Freezer Room.
- Do not allow consumers to repair the fridge for themselves.
- Do not allow consumers to keep things except for food.
  - ⇒ Pharmaceutical, Chemical substances : These are not possible to be fine-Controlled with a consumer fridge.
  - ⇒ Flammable material (alcohol, benzene, ether, LPG, etc) : possibility of explosion.

# PRECAUTIONS(SAFETY WARNINGS)

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

## CAUTION/WARNING SYMBOLS DISPLAYED SYMBOLS

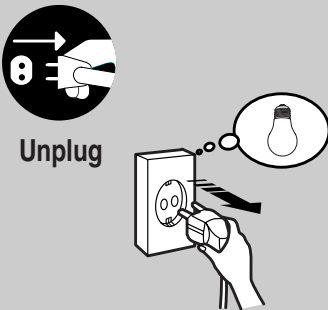
 <p><b>Warning</b> <i>Indicates that a danger of death or serious injury exists.</i></p>	 <p><i>means Prohibition".</i></p>
 <p><b>Caution</b> <i>Indicates that a risk of personal injury or material damage exists.</i></p>	 <p><i>means Do not disassemble".</i></p>
	 <p><i>means No contact".</i></p>
	 <p><i>means The things to be followed".</i></p>
	 <p><i>means Power cord should be unplugged from the consent".</i></p>
	 <p><i>means Earth to prevent Electric shock".</i></p>



## Warning & Caution

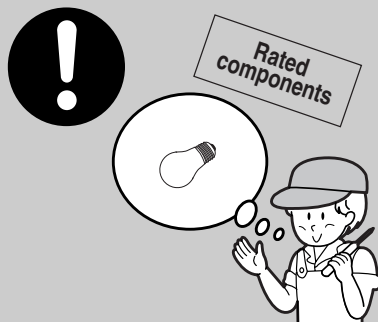
Due to risk of electric shock, be sure to unplug the unit before servicing.

- 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.



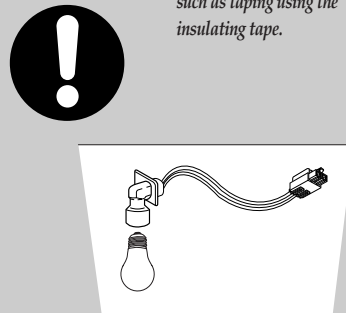
After repair, check the assembled state of components.

- 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.



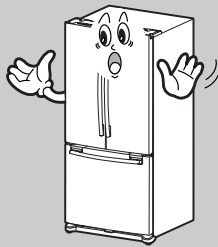
## Warning & Caution

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

- Freezing of the contents may inflict a wound.



Prohibition



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.



Prohibition



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.



Prohibition

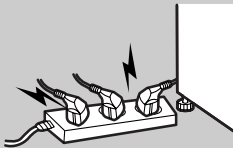


Do not allow users to insert the power plugs for many products at the same time.

- May cause abnormal generation of heat or fire.



Prohibition

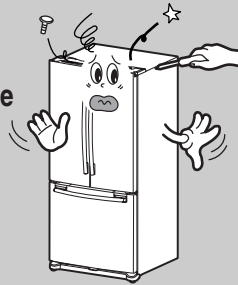


Do not allow users to disassemble, repair or alter.

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

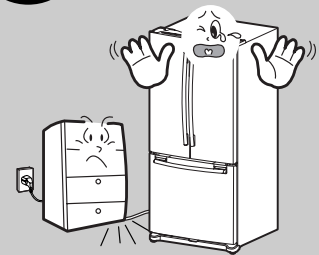


Do not disassemble



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.

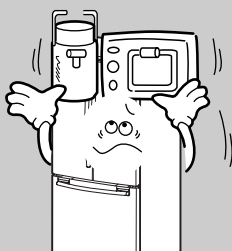


Do not allow users to store articles on the product.

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

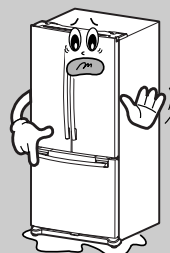


Prohibition



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

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

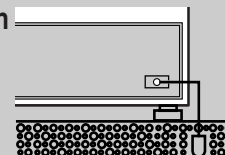


The Appliance must be properly grounded.

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




Earth



## 2. PRODUCT SPECIFICATIONS

### 2-1) Introduction of Main Function

- The SAMSUNG bottom mount freezer in 2009 has the following characteristics.

	<p><b>Surround Multi Flow</b></p> <ul style="list-style-type: none"><li>• Uniform cooling for each shelf by a center positioned fan and duct with multiple flow effluences.</li></ul>
	<p><b>Twin Cooling System</b></p> <ul style="list-style-type: none"><li>• 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.</li></ul>
	<p><b>Easy Handle System(RF197AB,RF217AB)</b></p> <ul style="list-style-type: none"><li>• The freezer door is more user-friendly and convenient.</li></ul>
	<p><b>Moving Tray</b></p> <ul style="list-style-type: none"><li>• The Deli Drawer can be moved side to side for customer improved customer satisfaction.</li></ul>
	<p><b>Digital Display &amp; Temperature Control</b></p> <ul style="list-style-type: none"><li>• Digital Display &amp; Temperature Control look and feel neat &amp; clear design.</li></ul>

# PRODUCT SPECIFICATIONS

## 2-2) Specifications

### ELECTRICAL SPECIFICATIONS

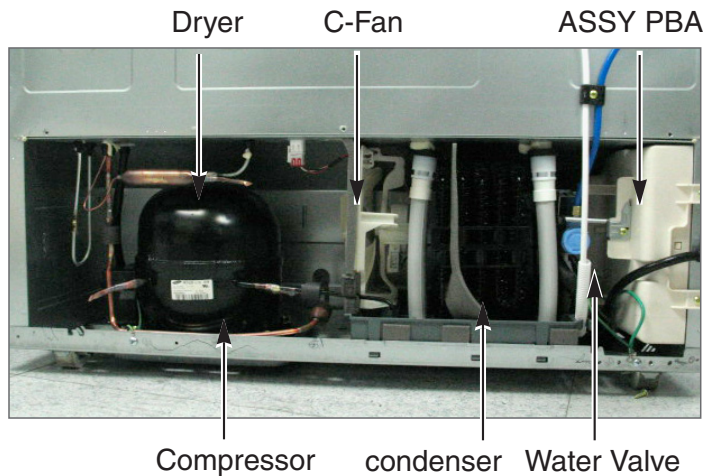
Defrost Control	From 12 to 64 hrs
Thermo Bimetal Protector	140°F(60°C)(off) 104°F(40°C)(on)
Defrost Thermistor(502AT)	R : 62.6°F(12°C) F : 57.2°F(14°C)
Electrical Rating	AC115V 60Hz 11.6 Amps
Maximum Current Leakage	0.5 mA
Maximum Ground Path Resistance	0.1 Ohm
Energy Consumption	453kWh/year(RF21) 445kWh/year(RF19)

### NO LOAD PERFORMANCE

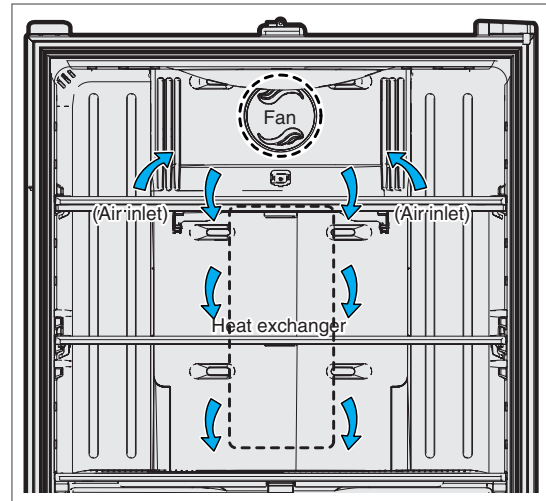
Ambient Temperature	70°F(21°C)	90°F(32°C)
Refrigerator, °F	34°F(1°C)~46°F(8°C)	34°F(1°C)~46°F(8°C)
Freezer, °F	-8°F(-22°C)~8°F(-13°C)	-8°F(-22°C)~8°F(-13°C)
Run Time, %	< 40	< 65

### REFRIGERATION SYSTEM

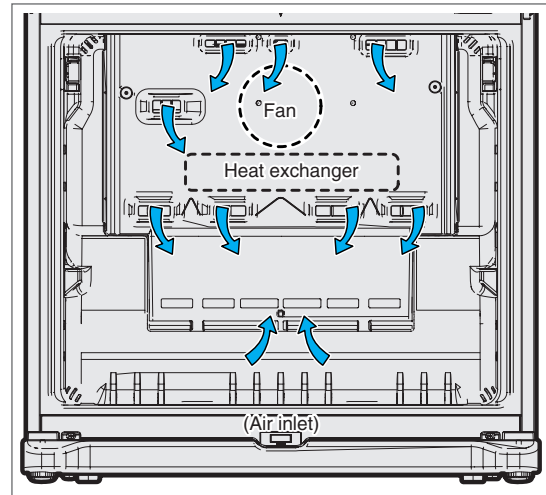
Refrigerant Charge	(R134a)5.64 oz(160g)
Compressor(MK162D-L1U)	730 Btu/hr(0.124kw)
Compressor oil	Freol α 10c
Capillary tube(Dia, Length)	0.032 " ,157 " (0.82mm,4000mm)



### Refrigerator



### Freezer



### INSTALLATION

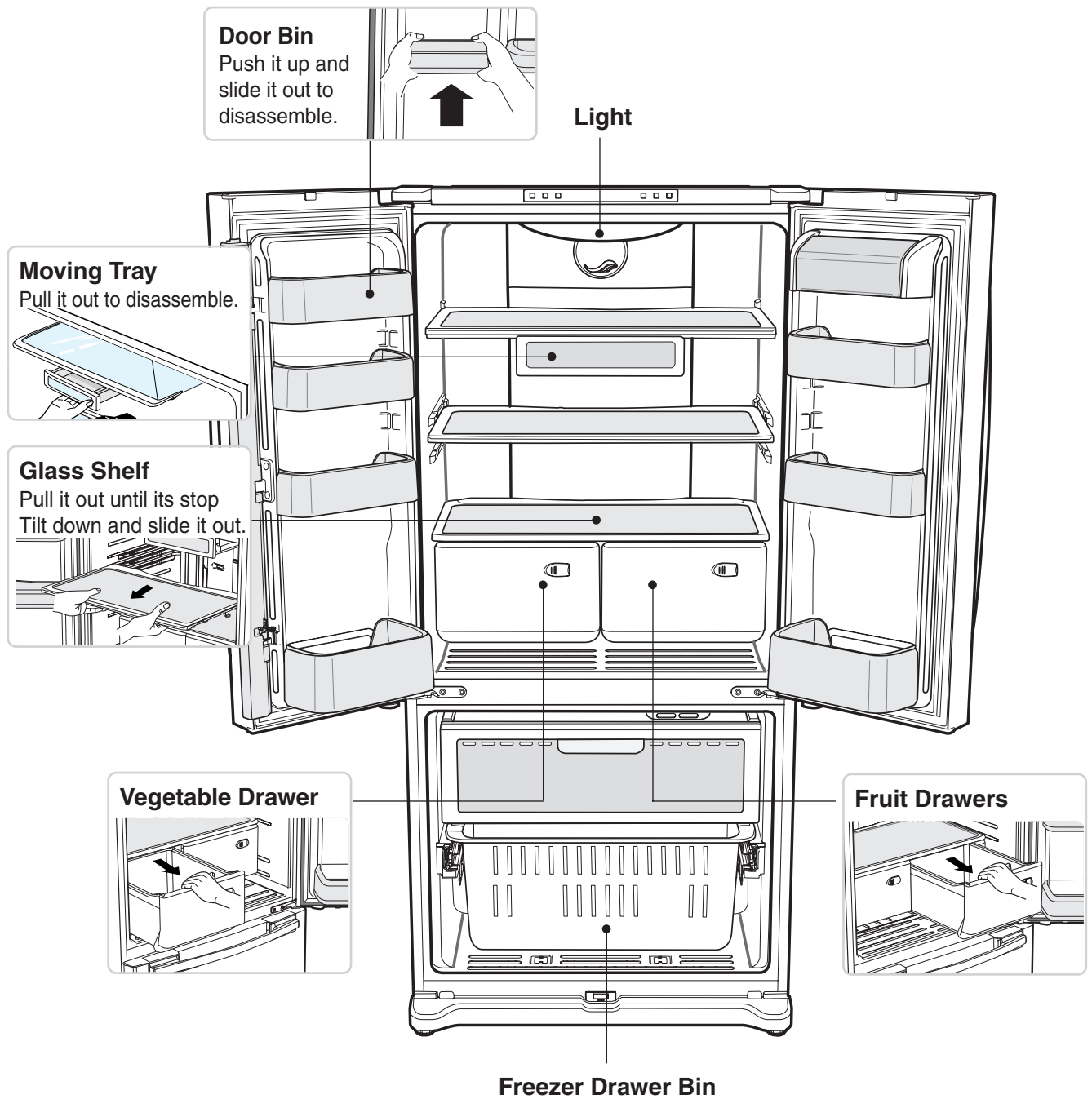
Clearance must be provided for air circulation

AT TOP	2 " (50mm)
AT SIDES	1 " (25mm)
AT REAR	2 " (50mm)




# PRODUCT SPECIFICATIONS

## 2-3) Interior Views



# PRODUCT SPECIFICATIONS

## 2-4) Model Specification

ITEM		SPEC		SAMSUNG	
				RF195, RF197, RF217	
Appearance					
Product Zone		Cooling Tech		Twin Cooling	
		Door Shape		Contour	
		Special Room		Cool Select Pantry	
Performance (RF217)	Cooling Speed(Min)	F-Room	220 ↓	177.3	
		R-Room	220 ↓	179.1	
	89.6°F(32°C)	F-Room	-26.0 ↓	-29.9	
		R-Room	2.0 ↓	-1.6	
	109.4°F(43°C)	F-Room	-18.0 ↓	-21.3	
		R-Room	5.0 ↓	-4.3	
	Temperature Distribution (Fridge)	F-Room	2.0 ↓	0.6	
		R-Room	2.0 ↓	0.8	
Run Time	N-N	65% ↓	51.6		
Noise	Sound power level		46dB ↓	41.8	
	Sound Pressure level		45dB ↓	39.7	

# PRODUCT SPECIFICATIONS

## 2-5) Model Specification & Specification Chart

Free Standing Model		Swing/Auto Ice Maker	Drawer/Auto Ice Maker	Drawer/Auto Ice Maker	
Model Number/ BOM code		3 Door			
		RF195	RF197	RF217	
Dimension (WxDxH)Inch/mm		32 ¼ x28 ¼ x70(817x715x1778)	32 ¼ x28 ¼ x70(817x715x1778)	32 ¼ x230 ¼ x70(817x765x1778)	
Capacity (net) (cu.ft/l)	Total	(17.8 / 504.0)	(17.8 / 504.0)	(19.7 / 557.8)	
	Refrigerator	(12.1 / 342.6)	(12.1 / 342.6)	(13.3 / 376.6)	
	Freezer	(5.7 / 161.4)	(5.7 / 161.4)	(6.4 / 181.2)	
Dimension (Net : Inch/mm)	Width	32 ¼ / 817	32 ¼ / 817	32 ¼ / 817	
	Height	w/o Hinge	68 ⅝ / 1743	68 ⅝ / 1743	68 ⅝ / 1743
		With Hinge	69 ¾ / 1772	69 ¾ / 1772	69 ¾ / 1772
	Depth	with Handle	30 ½ / 774	30 ½ / 774	32 ½ / 824
		w/o Handle	28 ½ / 725	28 ½ / 725	30 ½ / 775
		w/o Door	24 ⅜ / 617	24 ⅜ / 617	26 ¼ / 667
Dimension (packing : Inch)	Width	34 ⅝ / 879	34 ⅝ / 879	34 ⅜ / 879	
	Height	75 / 1906	75 / 1906	75 / 1906	
	Depth	30 ¼ / 766	30 ¼ / 766	33 ⅛ / 840	
Weight (lb)	Net	238lb (108kg)	238lb (108kg)	251lb (114kg)	
	Packing	269lb (122kg)	269lb (122kg)	282lb (128kg)	
Compressor		Reciprocate			
Rated Frequency and Frequency		AC 115V/60Hz			
Refrigerant		R 134a			
Foaming Agent		C-Pentane			
Refrigerant Input Amount		5.64 oz (160g)			
Type Refrigerator		Indirect Cooling Method Refrigerator			
Motor Rated Consumption Power		130W			
Electric Heater Rated Consumption Power		350W			

COLOR			
	Cabinet (Both Side)	Door	Molding
Black	All Black	Empire Black	I Black
Real STS	Noble STS	Real Stainless	Creamy STS
White	Snow White	Snow White	Snow White
Platinum Inox	Noble STS	Platinum Inox	Creamy STS

# PRODUCT SPECIFICATIONS

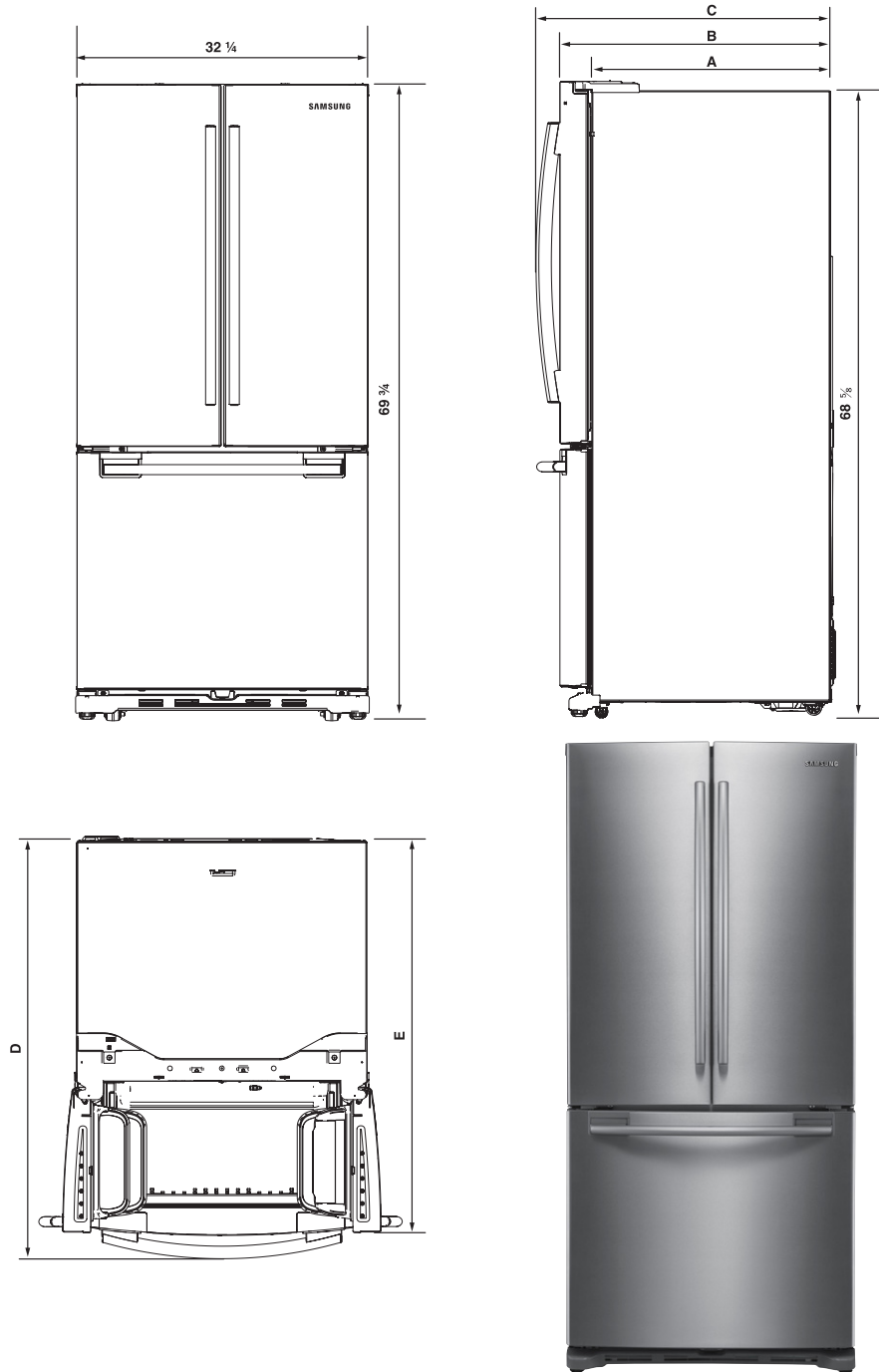
Items			Specification			
Model			RF19*,RF21*			
Components for Freezer	Compressor	Model	MK162DL1U-E09			
		Starting type	AC			
		Oil Charge	FREOL $\alpha$ -10			
	Evaporator	Freezer	SPLIT FIN TYPE			
		Refrigerator	SPLIT FIN TYPE			
	Condenser		Forced and Natural Convection Type			
	Dryer		Molecular shieve XH-9			
	Capillary tube(Dia x Length)		R: 0.032' x 157' (0.82mm x 4000mm) / F: 0.032' x 157' (0.82mm x 4000mm)			
Refrigerant		R134a				
Room Temperature Sensor Components	Freezer	Model	Temperature Selection	ON(°F)	OFF(°F)	
		THERMISTOR (F-SENSOR) 502AT	-8°F(-22°C)	0°F(-18°C)	-15°F(-26°C)	
			-2°F(-19°C)	5°F(-15°C)	9°F(-23°C)	
	8°F(-13°C)	16°F(-9°C)	1°F(-17°C)			
	Refrigerator	Model	Temperature Selection	ON(°F)	OFF(°F)	
		THERMISTOR (R-SENSOR) 502AT	34°F(1°C)	41°F(5°C)	27°F(-3°C)	
			38°F(3°C)	45°F(7°C)	30°F(-1°C)	
	46°F(8°C)	54°F(12°C)	39°F(4°C)			
	Defrost Related Components	Defrost Cycle	First Defrost Cycle (Concurrent defrost of F and R)		6hr $\pm$ 10min	
Defrost Cycle(FRE)			12~34hr(varies according to the conditions used)			
Defrost Cycle(REF)			6~17hr(varies according to the conditions used)			
Pause time			12 $\pm$ 1min			
Defrost Sensor		F Defrost-Sensor	Model	THERMISTOR (502AT)		
			SPEC	5.0 k $\Omega$ at 77°F(25°C)		
		R Defrost-Sensor	Model	THERMISTOR (502AT)		
			SPEC	5.0 k $\Omega$ at 77°F(25°C)		
Bimetal		F Bimetal-thermo Protector	Rated	AC 125V 6A		
			Operating temperature	Off : 140°F(60°C) / On : 104°F(40°C)		
	R Bimetal-thermo Protector	Rated	AC 125V 10A			
		Operating temperature	Off : 140°F(60°C) / On : 104°F(40°C)			

## PRODUCT SPECIFICATIONS

Items		Specification	
Model		RF19*,RF21*	
Electric Components	Defrost Heater(FRE)	Heated at F Defrost AC 120V, 240W	
	Defrost Heater(REF)	Heated at R Defrost AC115V, 120W	
	Over Load Relay	Model	4TM412SFBYY-53
		Temp.ON	275 ± 9°F(135±5°C)
		Temp.OFF	141.8 ± 9°F(61±5°C)
	Rated Voltage		AC 115V/ 60Hz
	Motor-BLDC(FRE)		DC12V / DREP5020LC
	Motor-BLDC(REF)		DC12V / DREP5020LC
	Motor-BLDC(CIRCUIT)		DC12V / DRCP5030LA
	Lamp(FRE)		AC 120V / 40W(1EA)
	Lamp(REF)		AC 125/720mA
	Door Switch	FRE	DC200V 0.5A / MS-406-SS-01(1EA)
		REF	DC200V 0.5A / MS-406-SS-01(2EA)
	Power Cord		AC125V 15A
Ground Screw		BSBN (BRASS SCREW)	

# PRODUCT SPECIFICATIONS

## 2-6)Dimensions of Refrigerator (Inches)

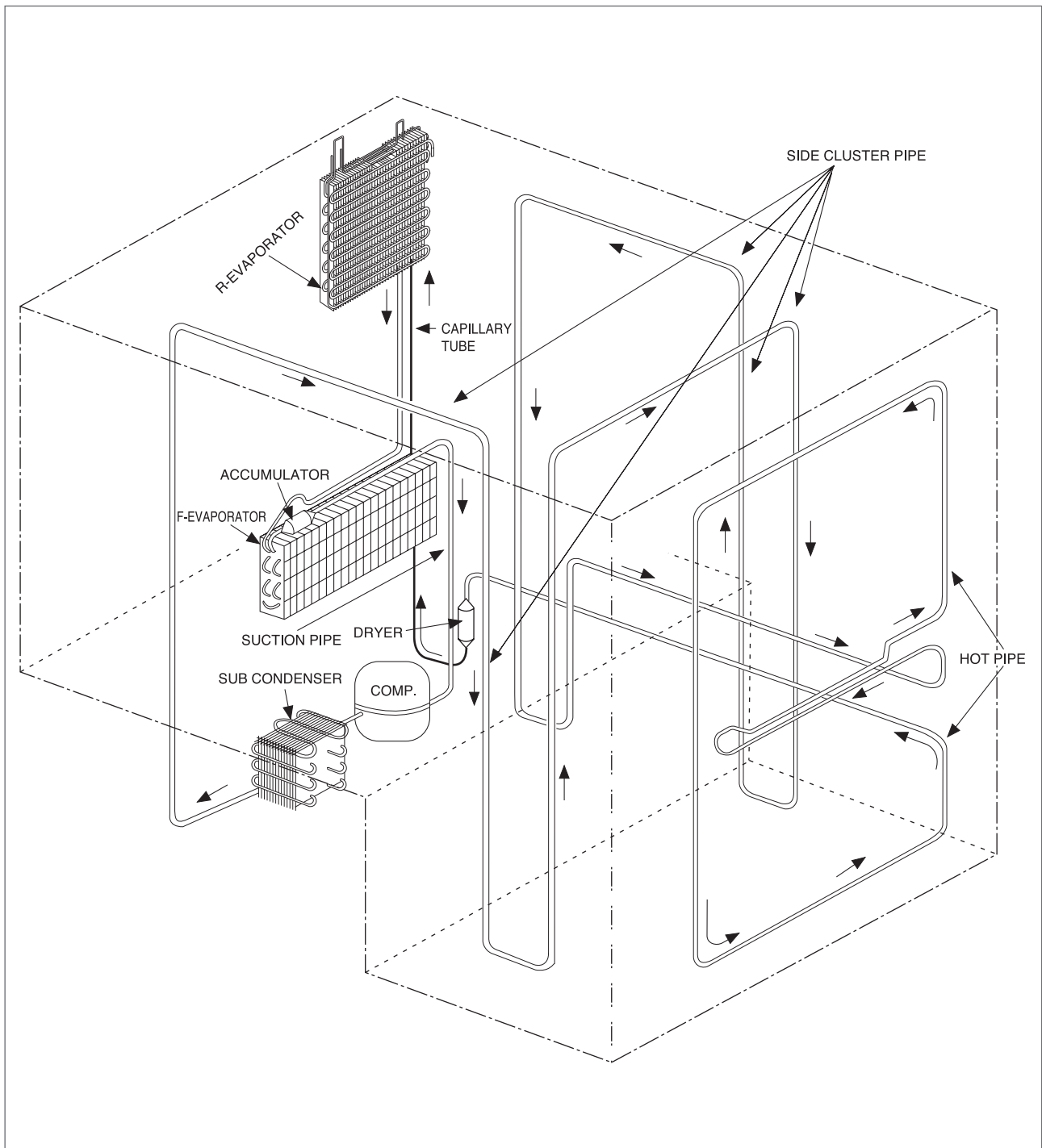


MODEL	A	B	C	D	E
RF19*	24 <sup>3</sup> / <sub>8</sub>	28 <sup>1</sup> / <sub>2</sub>	30 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>2</sub>	41
RF21*	26 <sup>1</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>2</sub>	32 <sup>1</sup> / <sub>2</sub>	48 <sup>1</sup> / <sub>2</sub>	43

# PRODUCT SPECIFICATIONS

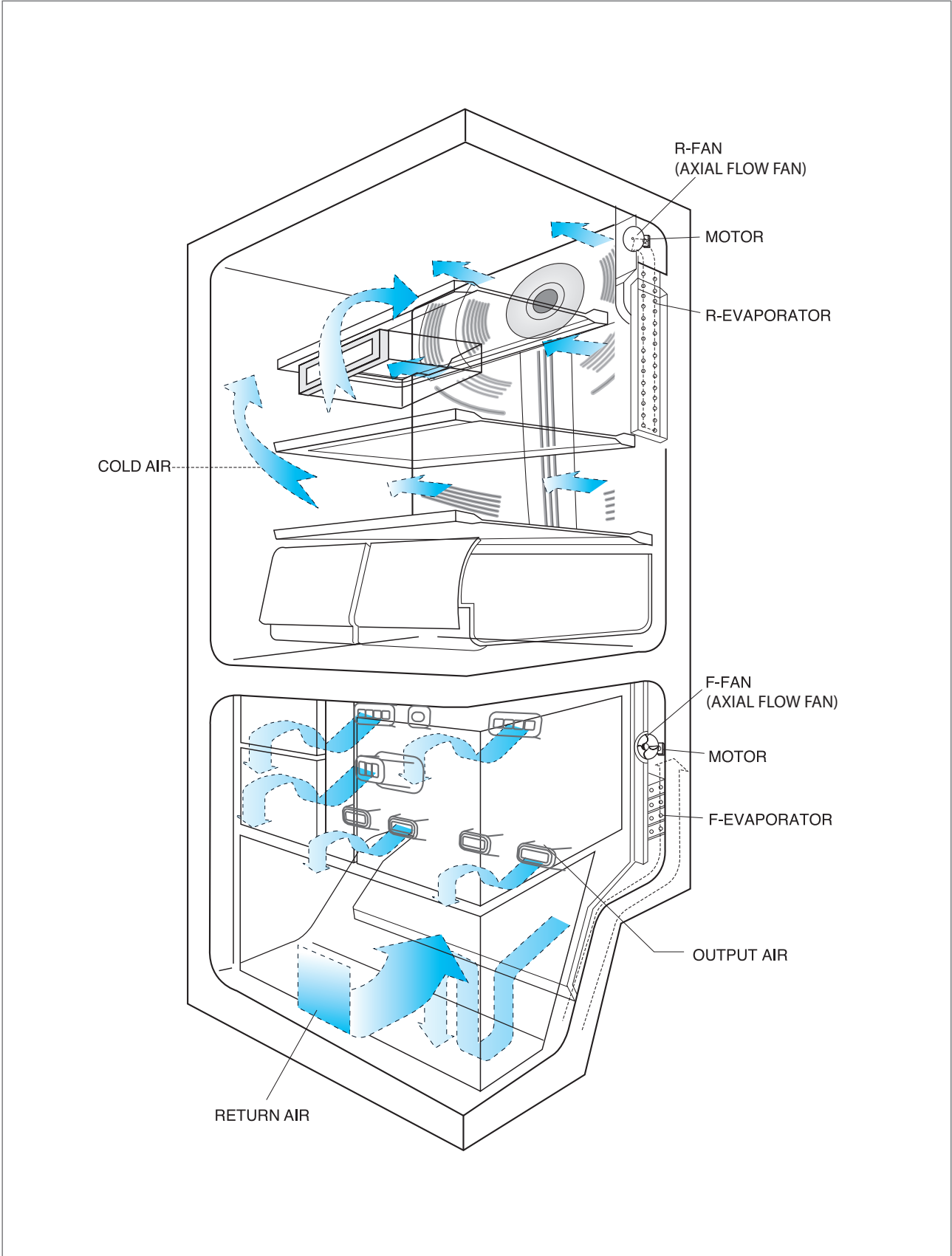
## 2-7) Refrigerant Route in Refrigeration cycle

Compressor → Sub-condenser → Side Cluster → Hot Pipe → Dryer → R Capillary → R Evaporator → F Evaporator → Suction Pipe → Compressor



# PRODUCT SPECIFICATIONS

## 2-8) Cooling Air Circulation









### 3. DISASSEMBLY AND REASSEMBLY

#### 3-1) PRECAUTION



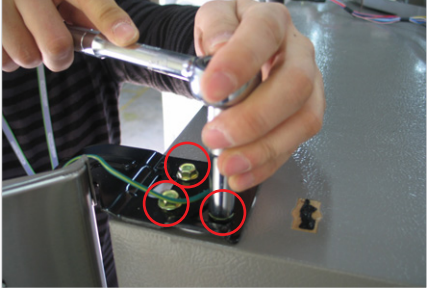


- Unplug the refrigerator before cleaning and making repairs.
- Do not disassemble or repair the refrigerator by yourself.
  - It may cause risk of causing a fire, malfunction and/or personal injury.
- Remove any foreign matter or dust from the power plug pins.
  - Otherwise there is a risk of fire.
- Do not use a cord that shows cracks or abrasion damage along its length or at either end.
- Do not plug several appliances into the same multiple power board. The refrigerator should always be plugged into its own individual electrical which has a voltage rating that matched the rating plate.
  - This provides the best performance and also prevents overloading house wiring circuits, which could cause a fire hazard from overheated wires.
- Do not install the refrigerator in a damp place or place where it may come in contact with water.
  - Deteriorated insulation of electrical parts may cause an electric shock or fire.
- The refrigerator must be grounded.
  - You must ground the refrigerator to prevent any power leakages or electric shocks caused by current leakage from the refrigerator.
- Do not put bottles or glass containers in the freezer.
  - When the contents freeze, the glass may break and cause personal injury.
- Do not store volatile or flammable substances in the refrigerator.
  - The storage of benzene, thinner, alcohol, ether, LP gas and other such products may cause explosions.

#### - Required Tools



IMAGE	ITEM	USE
	Phillips Head Driver	Use for inserting and removing screws
	Flat Head Driver	Use for assembling and disassembling of HomeBar, Dispenser, Deli Box, Main PBA etc..
	Hex Wrench $\varnothing$ 2mm	Use for Hinge assembly/disassembly
	Socket Wrench $\varnothing$ 10mm	Use for Door Hinge assembly/disassembly

# DISASSEMBLY AND REASSEMBLY



## 3-2) Refrigerator Door

Part Name	How To Do	Descriptive Picture
<b>Refrigerator Door</b>	1. Remove the 3 screws holding down the top table and remove it.	
	2. Disconnect electric wire on the top of the refrigerator.	
	3. Remove the 3 hex bolts that hold the hinge on the top of the refrigerator with the 7/16" socket wrench.	
	4. Remove the screw that holds the ground wire with a philips screwdriver(+).	
	5. Separate the Hinge from the electric wire and ground wire.	

## DISASSEMBLY AND REASSEMBLY




Part Name	How To Do	Descriptive Picture
Refrigerator Door	<p>6. Lift the door straight up to remove. Be careful not to drop and scratch the doors while removing the doors.</p>	
	<p>7. Separate the cap on the middle hinge.</p>	

### 3-3 ) Freezer Door(RF195)


Part Name	How To Do	Descriptive Picture
Freezer Door	<p>1. Remove the screw attached to the left and right middle hinges with a philops screwdriver(+). Remove the 2 hex head bolts attached to the left and right middle hinges with an allen wrench(3/16”).</p>	 <p>Middle Hinge</p> 

## DISASSEMBLY AND REASSEMBLY

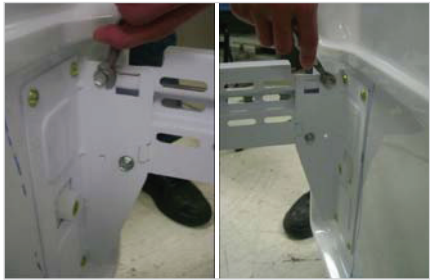

### 3-3 ) Freezer Door(RF195)

Part Name	How To Do	Descriptive Picture
Freezer Door	2. Remove the Middle Hinge connected to the Freezer.	
	3. Disassemble the Freezer door by lifting it upward. Be careful not to drop and scratch the Freezer door	
	4. Disassemble the Cap on the Low Hinge.	




### 3-3 ) Freezer Door(RF217,RF197)

Part Name	How To Do	Descriptive Picture
Freezer Door	1. After opening the Freezer door, lift the drawer box.	

## DISASSEMBLY AND REASSEMBLY



Part Name	How To Do	Descriptive Picture
<b>Freezer Door</b>	2. Remove 4 hex head bolts from both sides with a socket wrench(7/16”).	
	3. Lift up the freezer door from the rails. Be careful not to drop and scratch the freezer door.	

### 3-4) Freezer Door Switch


Part Name	How To Do	Descriptive Picture
<b>Freezer Door Switch</b>	1. Remove 1 screw at the lower part of the Freezer.	
	2. Separate the Cap.	
	3. Separate the Housing.	

## DISASSEMBLY AND REASSEMBLY

### 3-5) Refrigerator Light


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

### 3-6) Glass shelves




Part Name	How To Do	Descriptive Picture
Glass shelves	1. When pulling out the shelf, if it is not slid out well, lift it up slightly and pull out again.	

## DISASSEMBLY AND REASSEMBLY

### 3-7) Moving tray


Part Name	How To Do	Descriptive Picture
<p><b>Moving tray</b></p>	<p>1. When pulling out the Moving tray, if it is not slid out well, lift it up slightly and pull out again.</p>	

### 3-8) Vegetable & Fruit Drawers Shelf

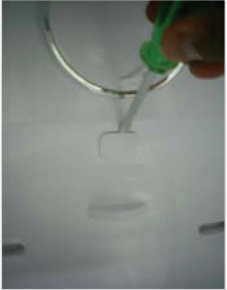


Part Name	How To Do	Descriptive Picture
<p><b>Vegetable &amp; Fruit Drawers Shelf</b></p>	<p>1. Remove the vegetable &amp; fruit drawer by pulling the roller part and lifting it up.</p>	
	<p>2. Remove the vegetable &amp; fruit drawer shelf by pulling it out.</p> <p>(Refer to the picture)</p>	
	<p>3. Remove the vegetable &amp; fruit drawer partition by pulling it out.</p> <p>(Refer to the picture)</p>	

## DISASSEMBLY AND REASSEMBLY

### 3-9) Gallon Door Bin

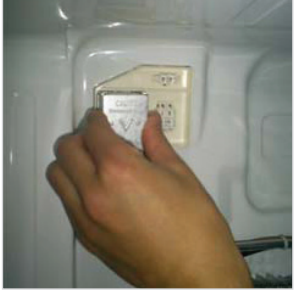


Part Name	How To Do	Descriptive Picture
<p><b>Door Bin</b></p>	<p>1. Simply lift the bin up and pull straight out. (Refer to the picture)</p>	

### 3-10) Evaporator In Refrigerator

Part Name	How To Do	Descriptive Picture
<p><b>Evaporator In Refrigerator</b></p>	<p>1. Remove the screw cap with a flat-blade screwdriver.</p>	
	<p>2. Unscrew a screw.</p>	
	<p>3. Unscrew two screws. And remove the hook by pulling it from the lower part and pushing the cover down. (Refer to the picture)</p>	




## DISASSEMBLY AND REASSEMBLY

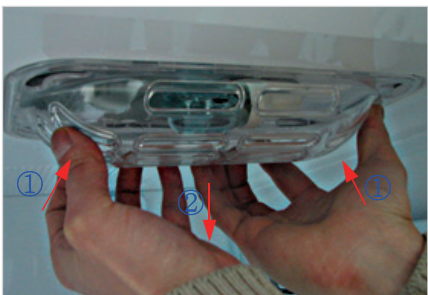
Part Name	How To Do	Descriptive Picture
<b>Evaporator In Refrigerator</b>	4. Remove the housing cover by pushing both lateral sides of the housing cover and pulling it out. (Refer to the picture)	
	5. Disconnect the housing connector part. (Refer to the picture)	
	6. Remove the evaporator by lifting the bottom side of it up and pulling it out. (Refer to the picture)	

## DISASSEMBLY AND REASSEMBLY

### 3-11) Door Handle Freezer

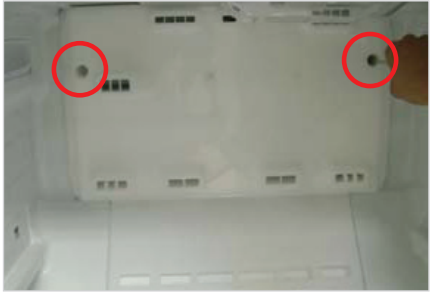

Part Name	How To Do	Descriptive Picture
<p><b>Door Handle Freezer</b></p>	<p>Insert the small flat-head driver to the hole at the bottom of Cap Handle and pull the handle assembly out to the front side with turning driver to one side.</p> <p><b>CAUTION :</b> Turn the handle assembly though 90 degrees to allow access to the bottom fixing position.</p> <p>- Required Tools : Flat Head Driver   <math>\varnothing</math> 0.12~0.13" ( <math>\varnothing</math> 3.0~3.3mm)</p>	

### 3-12) Freezer Light



Part Name	How To Do	Descriptive Picture
<p><b>Freezer Light</b></p>	<p>1. Remove the light by pulling the light cover down while pushing the rear plane of light cover.</p>	

## DISASSEMBLY AND REASSEMBLY

### 3-13) Evaporator Cover In Freezer

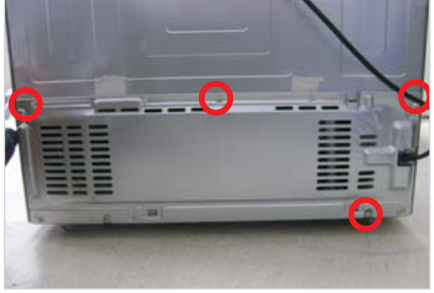



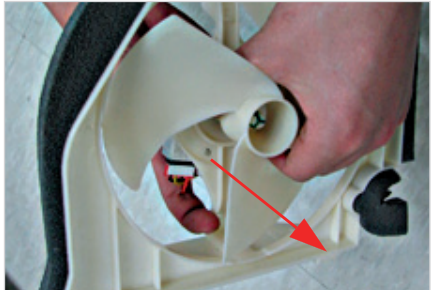
Part Name	How To Do	Descriptive Picture
<b>Evaporator Cover In Freezer</b>	1. Remove the freezer door and freezer drawer by pulling out the drawer and then unscrewing 2 screws. Lift up the evaporator cover.	
	2. Disengage the housing connector and remove the evaporator cover.	

### 3-14) Evaporator InFreezer

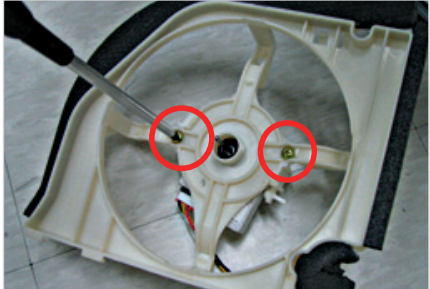
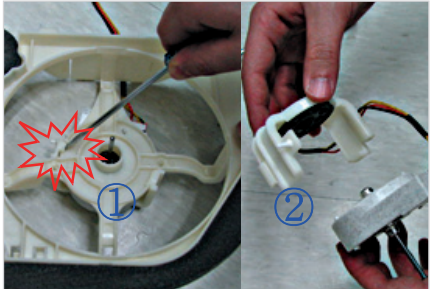
Part Name	How To Do	Descriptive Picture
<b>Evaporator In Freezer</b>	1. Remove the housing cover by pushing both lateral sides of housing cover part and pulling it out. Remove the housing connector part.	
	2. Remove the evaporator by pulling the lower part of the evaporator while lifting it up.	

# DISASSEMBLY AND REASSEMBLY

## 3-15) Motor Fan

Part Name	How To Do	Descriptive Picture
<b>Motor Fan</b>	1. Unscrew 4 screws of cover compressor.	
	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 screw with a flat-blade screwdriver. (Refer to the picture)	
	5. Remove the motor fan by pulling the fan out while grasping the motor part. (Refer to the picture)	

## DISASSEMBLY AND REASSEMBLY

Part Name	How To Do	Descriptive Picture
<b>Motor Fan</b>	6. Unscrew 2 screws fixed in the motor.	 A photograph showing the internal motor fan assembly. Two screws are circled in red, indicating they are the ones to be unscrewed.
	7. Remove the hook of the motor cover with a flat-blade (-) screwdriver and then remove the motor.	 Two photographs showing the removal of the motor cover hook. The left photo shows a flat-blade screwdriver being used to pry the hook, with a red starburst indicating the point of contact and a blue circle labeled '1'. The right photo shows the hook being removed, with a blue circle labeled '2'.

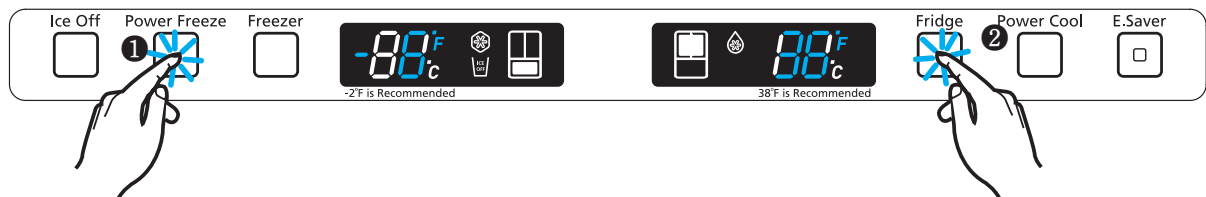
## 4. TROUBLESHOOTING

### 4-1) Check items before failure diagnosis

#### 4-1-1. TEST mode (Manual operation / Manual defrost function)

- If Energy Saver Key + Fridge Key on the front of panel are pressed simultaneously for 8 seconds, the test mode will be activated and all displays on the front of panel will be off.
- If any key on the front panel is pressed within 15 seconds after changing to Test Mode, it will be operate as in the sequence below ; Manual operation (FF) → Manual defrost of R (rd) → Manual defrost of F/R (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.  
If the test mode is canceled, power off and reactivate the refrigerator.

##### 1) Manual operation function



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

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



- 1-2) If manual function is selected, compressor 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 stopped and manual operation will begin. (Be careful if manual operation starts at the same time the compressor turns off, as an overload could occur.)
- 1-3) If manual operation works, compressor & 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 -8°F (-22°C), Fresh food compartment 34°F (1°C).
- 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 one 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 following step 4) test cancel mode.
- 1-7) When the manual operation runs, alarm (0.25 seconds ON/0.75 seconds OFF) will beep continuously until manual operation is completed and there is no function to make the sound stop.

## TROUBLESHOOTING

### 2) Manual defrost (R : 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 from the beginning, and then beeps 0.1 sec ON/ 1 sec OFF during manual defrost (Fresh food compartment) function.

### 3) Manual defrost (R & F : Fresh food & Freezer compartment) 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. Simultaneous manual defrost of Fresh food and Freezer compartment is on the extension of fresh food compartment, and when it begins, it operates by comparing the temperature of Freezer Heater ON, not compare the temperature of fresh food Heater ON separately, That is, in case of manual defrost of fresh food, it is the Heater On condition and if the simultaneous manual defrost of fresh food and freezer compartment key before completing deforest, it does not make fresh food compartment heater OFF by re-comparing the temperature of fresh food compartment EVA.
- 3-2) At this time, alarm beeps for 3 seconds from the beginning, and then beeps 0.5 sec. ON/ 0.5sec. OFF during the manual defrost of the fresh food and freezer compartment.

### 4) Test cancel mode

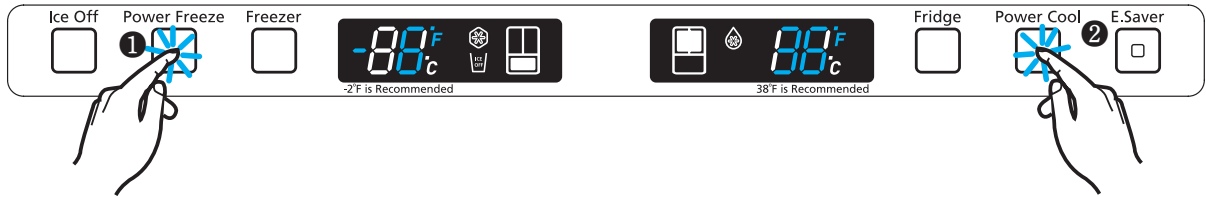
- 4-1) During the simultaneous defrosting of fresh food and freezer compartments, if the display panel changes to the test mode and test button is pressed one more time, defrosting of the fresh food and freezer compartments will be canceled at the same time and will return to normal operation. The test functions will also be canceled by turning the main power OFF and ON.

#### 4-1-2. Self-diagnostic function

##### 1) Self-diagnostic function in the initial power ON.

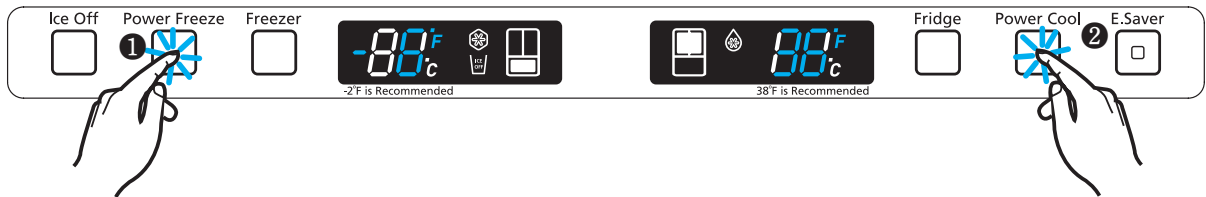
- 1-1) Micom operates a self-diagnostic function to check the temperature sensor condition within 1 second when the refrigerator is initially turned On.
- 1-2) If a bad sensor is detected by the self-diagnostic function, the all applicable display LED will blink for 0.5-second interval. At this moment, 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. The 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)

## TROUBLESHOOTING



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

### 2) Self-diagnostic function during normal operation



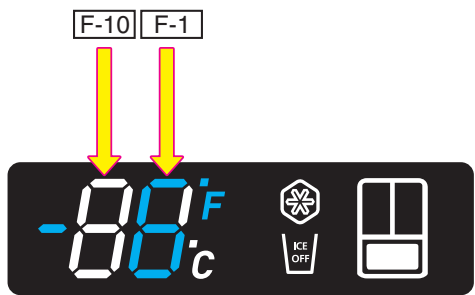
- 2-1) If Power Freeze Key + Power Cool Key are pressed simultaneously for 6 seconds during normal operation, the temperature setting display will operate for 2 seconds (ALL ON/OFF 0.5 sec each). If Power Freeze Key + Power Cool Key are pressed simultaneously for 8 seconds (including above 2 seconds), the self-diagnostic function will be selected.
- 2-2) At this moment, self-diagnostic function will start with a 'ding-dong' sound. If there is an error, the error display will operate for 30 seconds and then return to normal condition whether problem is corrected or not.  
(Buzzer sounds 'ding-dong') (Refer to self-diagnosis CHECK LIST).
- 2-3) Input by button is not acceptable during self-diagnostic function.



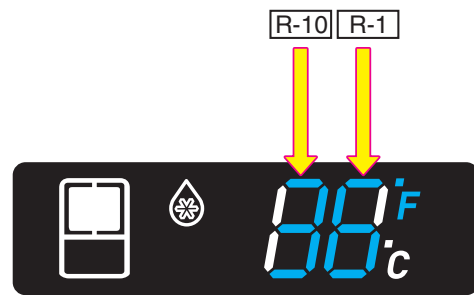
# TROUBLESHOOTING

## \* Self-diagnosis CHECK LIST

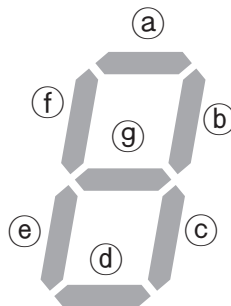
NO	Trouble item	Display LED	Trouble contents
1	Ice Maker Sensor Error	R-1-(a)	ICE MAKER SENSOR part error.
2	R-Sensor Error	R-1-(b)	R SENSOR part error.
3	R-DEF-Sensor Error	R-1-(c)	R defrost SENSOR part error.
4	R-FAN Error	R-1-(d)	R inner fan motor part error.
5	Ice Maker function Error	R-1-(e)	ICE MAKER operation error.
6	R-DEF. - Heater Error	R-1-(g)	R defrost part error.
7	Ambient-Sensor Error	F-1-(a)	External SENSOR part error.
8	F-Sensor Error	F-1-(b)	F SENSOR part error.
9	F-DEF-Sensor Error	F-1-(c)	F defrost SENSOR part error.
10	F-FAN Error	F-1-(d)	F inner fan motor part error.
11	C-FAN Error	F-1-(e)	Machine room fan motor part error.
12	F-DEF. - Heater Error	F-1-(g)	F defrost part error.



-2°F is Recommended



38°F is Recommended



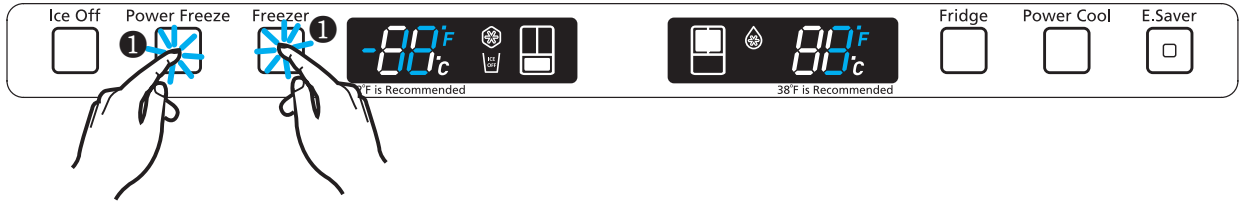
## TROUBLESHOOTING

### \* Self-diagnostics check list

LED	Item	Trouble contents	Diagnostic method
R-1- <sup>(a)</sup>	Ice Maker Sensor Error	Display error : In case of Separation of sensor housing part, contact error, disconnection, short circuit. Display error by temperature : when the sensing temperature is more than 149°F (+65°C) or less than -58°F (-50°C).	When checking the voltage of MAIN PCB CN90 #3 ↔ #4 : Shall be between 4.5V~1.0V.
R-1- <sup>(b)</sup>	R-Sensor Error		When checking the voltage of MAIN PCB CN30 #3 ↔ #8 : Shall be between 4.5V~1.0V.
R-1- <sup>(c)</sup>	R-DEF-Sensor Error		When checking the voltage of MAIN PCB CN30 #4 ↔ #8 : Shall be between 4.5V~1.0V.
R-1- <sup>(d)</sup>	R-FAN Error	Display error : In case of Feed Back signal line contact error, separation of motor wire, motor itself error during operation of applicable fan motor.	Voltage of MAIN PCB CN76 Yellow ↔ Gray : Shall be between 7V~12V.
R-1- <sup>(e)</sup>	Ice Maker Error	Display error : When ice making kit is harvested more than 3times and level error. ** Only for the Ice Maker applied model.	After replacing ice maker, check the operation by turning the appliance ON again.
R-1- <sup>(g)</sup>	R-DEF. Error	<b>Fresh food Compartment</b> Display error : In case of separation of defrost heater housing, contact error, disconnection, short circuit, or temperature fuse error. Display error : If defrost does not finish though the defrost of fresh food compartment is heating continuously for more than 80 minutes.	After separating MAIN PCB CN72 wire from PCB, the checked resistance value of CN70 White ↔ Orange shall be 103/397ohm ± 10% (Resistance value is varied by input power) ↔ Model without Ice maker (120ohm ± 10%) Check 0 Ohm for heater short, & ∞ Ohm for wire / bimetal Open.
F-1- <sup>(a)</sup>	Ambient-Sensor Error	Display error : In case of separation of sensor housing parts, contact error, disconnection, short circuit. Display error by temperature : When the sensing temperature is more than 149°F (+65°C) or less than -58°F (-50°C).	When checking the voltage of MAIN PCB CN31 #1 ↔ #3 : Shall be between 4.5V~1.0V.
F-1- <sup>(b)</sup>	F-Sensor Error		When checking the voltage of MAIN PCB CN30 #5 ↔ #8 : Shall be between 4.5V~1.0V.
F-1- <sup>(c)</sup>	F-DEF-Sensor Error		When checking the voltage of MAIN PCB CN30 #6 ↔ #8 : Shall be between 4.5V~1.0V.
F-1- <sup>(d)</sup>	F-FAN Error	Display error : In case of Feed Back signal line contact error, separation of motor wire, motor itself error during operation of applicable fan motor.	Voltage of MAIN PCB CN76 Pink ↔ Gray : Shall be between 7V~12V.
F-1- <sup>(e)</sup>	C-FAN Error	Display error : In case of Feed Back signal line contact error, separation of motor wire, motor itself error during operation of applicable fan motor.	Voltage of MAIN PCB CN76 Blue ↔ Gray : Shall be between 7V~12V.
F-1- <sup>(g)</sup>	F-DEF. Error	<b>Freeze Compartment</b> Display error : In case of separation of defrost heater housing, contact error, disconnection, short circuit or temperature fuse error. Display error : If defrost does not finish though the defrost of freeze compartment is heating continuously for more than 70 minutes.	After separating MAIN PCB CN72 wire from PCB, the checked resistance value of CN70 Brown ↔ Orange shall be 66/240 ohm ± 10%. (Resistance value is varied by input power) Check 0 Ohm for heater short, & ∞ Ohm for wire / bimetal Open.

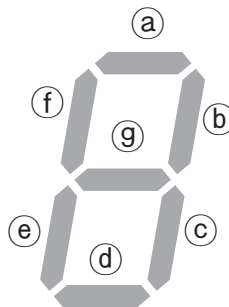
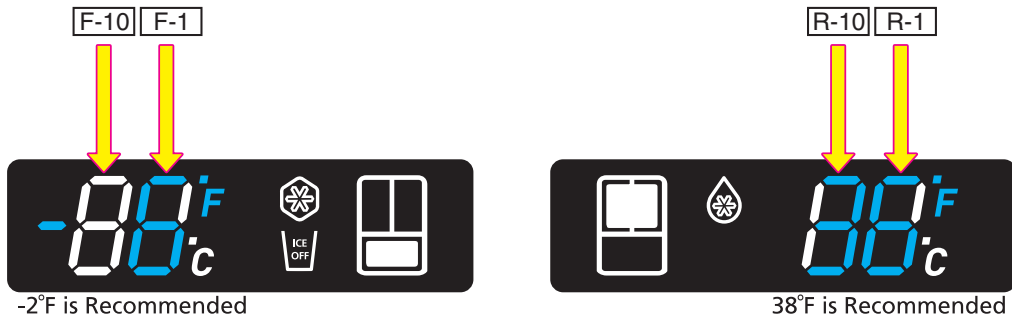
# TROUBLESHOOTING

## 4-1-3. Load condition display function



- ① If **Power Freeze Key + Power Cool Key** are pressed simultaneously for 6 seconds, **All ON/OFF will blink in 0.5 intervals for 2 seconds.**
- ② If you press Fridge key after pressing the above keys, the load condition mode will start.

- 1) If Power Freeze Key + Power Cool Key are pressed simultaneously for 6 seconds during normal operation, the temperature setting display of the fresh food and freezer compartments will blink ALL ON/OFF in 0.5 intervals for 2 seconds.
- 2) At this moment, if the Fridge Key is pressed after pressing the Power Freeze Key + Power Cool Key and pressing Fridge Key, load condition display mode will be returned with alarm ("Ding-dong").
- 3) Load condition display mode shows the load that the micom signal is outputting. However, even though it shows that micom signal is outputting, it does not show whether the load is operating or not. Though the load operation is displayed, the load could not operated due to an actual load error or PCB relay error etc. (This function would be applied at A/S.)
- 4) Load condition display function will run for 30 seconds and then return to normal conditions.
- 5) Load condition display is as below.



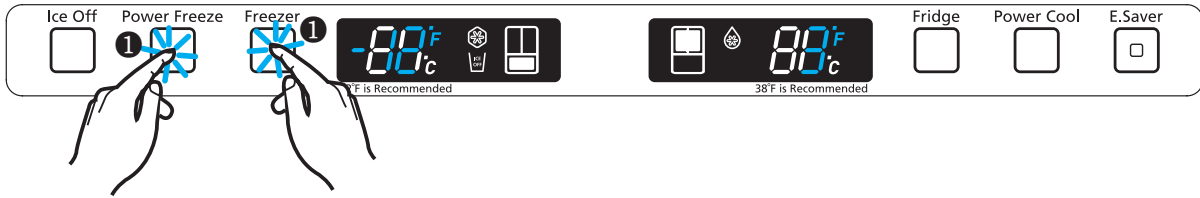
## TROUBLESHOOTING

### \* Load mode Check list

Display LED	Display contents	Operation contents
R-1- <b>㉑</b>	R-FAN High	When fresh food compartment FAN High operates, applicable LED ON.
R-1- <b>㉒</b>	R-FAN Low	When fresh food compartment FAN Low operates, applicable LED ON.
R-1- <b>㉓</b>	R-DEF Heater	When fresh food compartment defrost heater operates, LED ON.
R-1- <b>㉔</b>	Start Mode	When initial power applied to refrigerator, LED ON.
R-1- <b>㉕</b>	Overload condition	When ambient temperature is more than 93°F(34℃), LED ON.
R-1- <b>㉖</b>	Low temperature condition	When ambient temperature is less than 72°F(22℃), LED ON.
F-1- <b>㉗, ㉘</b> ALL LED Off	Normal Condition	When the ambient temperature is between 73°F(23℃) ~ 91°F(33℃).
R1- <b>㉙</b>	Exhibition Mode	At the display mode, LED ON.
F-1- <b>㉑</b>	COMP.	When compressor operates, applicable LED ON.
F-1- <b>㉒</b>	F-FAN High	When freezer FAN High operates, applicable LED ON.
F-1- <b>㉓</b>	F-FAN Low	When freezer FAN Low operates, applicable LED ON.
F-1- <b>㉔</b>	F-DEF Heater	When freezer defrost heater operates, LED ON.
R-10- <b>㉕</b>	C-FAN High	When compressor FAN High operates, applicable LED ON.
R-10- <b>㉖</b>	C-FAN Low	When compressor FAN Low operates, applicable LED ON.
R-10- <b>㉗</b>	French Heater	When french heater operates, applicable LED ON.

# TROUBLESHOOTING

## 4-1-4. Display / Exhibition mode setting function

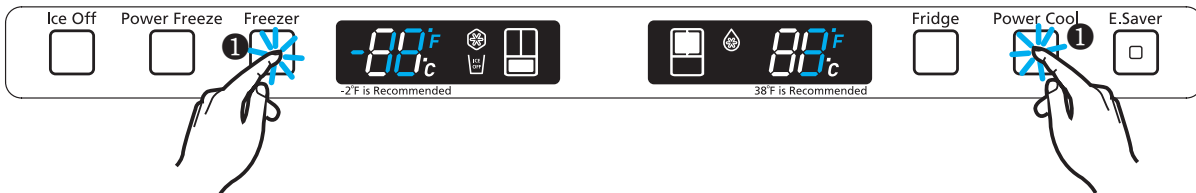


① If **Power Freeze Key + Freezer Key** are pressed for 3 seconds, exhibition / display mode will be started.

- 1) If **Power Freeze Key + Freezer Key** are pressed simultaneously for 3 seconds during normal operation, exhibition / display mode will be started with buzzer sound ("Ding-dong").
- 2) If above Power Freeze Key + Freezer Key are pressed repeatedly, exhibition / display mode will be canceled.
- 3) If exhibition / display mode is selected, "OF-OF" blinks on the temperature setting display of the panel and it indicates the refrigerator has entered the exhibition / display mood.
- 4) If fresh food and freezer compartments sensors are higher than 149°F (65°C) during exhibition / display mode, exhibition / display mode will be canceled automatically and cooling operation will be returned. (There is no buzzer sound when the exhibition/display mode is canceled by the temperature.)
- 5) Operation contents of exhibition/display mode
  - All function like display, fan motor, etc operate normally, but only compressor does not operates.
  - Defrost is not operated. (including french heater)
  - Display function of initial actual temperature is finished.
  - Exhibition/Display mode will be operated though Power ON after Power OFF under the exhibition/Display mode condition.

## 4-1-5. Option setting function

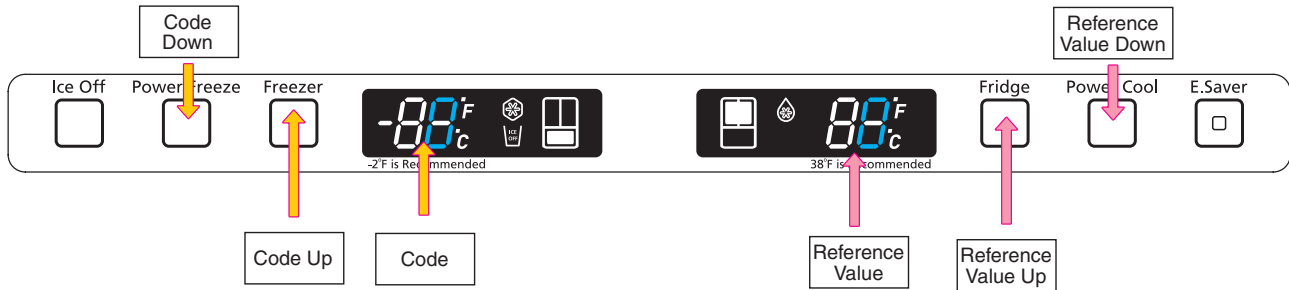
- If Freezer Key + Power Cool Key are pressed simultaneously for 12 seconds during normal operation, fresh food and freezer compartments temperature display will be changed to option setting mode.



# TROUBLESHOOTING

- ① If **Freezer Key + Power Cool Key** are pressed simultaneously for **12 seconds**, option setting mode will be started.

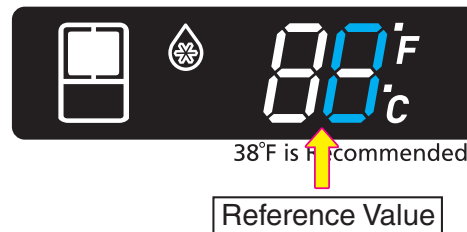
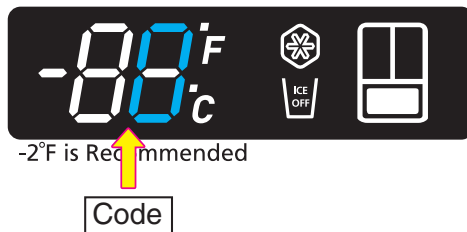
Key control method after changing to option mode.



## \* 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 fresh food compartments temperature display as below. (Fresh food and freezer compartments is 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  $-6^{\circ}\text{F}$  ( $-3^{\circ}\text{C}$ ) by operating option, do as following. This function is for changing the standard temperature. In  $-2^{\circ}\text{F}$  ( $-19^{\circ}\text{C}$ ) of current temperature of freezer compartment, if you make the temperature lower to  $-6^{\circ}\text{F}$  ( $-3^{\circ}\text{C}$ ) by the option, the standard temperature would be controlled  $-8^{\circ}\text{F}$  ( $-22^{\circ}\text{C}$ ). Therefore, if you changed the setting of temperature option to  $-2^{\circ}\text{F}$  ( $-19^{\circ}\text{C}$ ) on the panel, the appliance will be operated with  $-8^{\circ}\text{F}$  ( $-22^{\circ}\text{C}$ ). It means that standard temperature is controlled  $-6^{\circ}\text{F}$  ( $-3^{\circ}\text{C}$ ) less than setting temperature in the display.



**NOTE**

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

## TROUBLESHOOTING

- 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 quality 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  $-6^{\circ}\text{F}(-3^{\circ}\text{C})$ . (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 LMF model.
- 5) It is possible to regulate the fresh food compartment temperature, water supplying quantity ejecting temperature / ejecting time of Ice maker, return temperature after defrost, hysteresis per temperature, notch gap per 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.



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.)

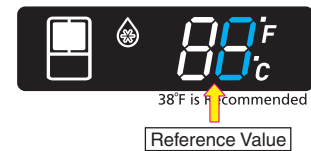
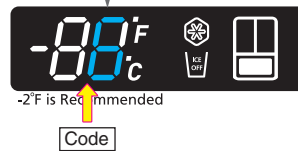
# TROUBLESHOOTING

## 4-1-5. Option TABLE

### 1) Temperature changing table of freezer compartment

Setting ITEM	Freezer Temp Shift
MODEL	NW2 FDR
Reference Value	Fridge Room 7-SEG
	0

Setting value	
Freezer Compartment Code	Temp. compensation
0	0
1	-1 °F(-0.5°C)
2	-2 °F(-1.0°C)
3	-3 °F(-1.5°C)
4	-4 °F(-2.0°C)
5	-5 °F(-2.5°C)
6	-6 °F(-3.0°C)
7	-7 °F(-3.5°C)
8	+1 °F(+0.5°C)
9	+2 °F(+1.0°C)
10	+3 °F(+1.5°C)
11	+4 °F(+2.0°C)
12	+5 °F(+2.5°C)
13	+6 °F(+3.0°C)
14	+7 °F(+3.5°C)
15	+8 °F(+4.0°C)

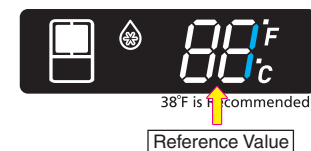
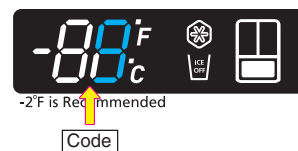


ex) If you want to change the freezer standard temperature to -4 °F(-2°C)

### 2) Temperature changing table of fresh food compartment

Setting ITEM	Fridge Temp Shift
MODEL	NW2 FDR
Reference Value	Fridge Room 7-SEG
	1

Setting value	
Freezer Compartment Code	Temp. compensation
0	0
1	-1 °F(-0.5°C)
2	-2 °F(-1.0°C)
3	-3 °F(-1.5°C)
4	-4 °F(-2.0°C)
5	-5 °F(-2.5°C)
6	-6 °F(-3.0°C)
7	-7 °F(-3.5°C)
8	+1 °F(+0.5°C)
9	+2 °F(+1.0°C)
10	+3 °F(+1.5°C)
11	+4 °F(+2.0°C)
12	+5 °F(+2.5°C)
13	+6 °F(+3.0°C)
14	+7 °F(+3.5°C)
15	+8 °F(+4.0°C)



ex) If you want to change the freezer compartment standard temperature to 4 °F(2°C).



# TROUBLESHOOTING

## 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

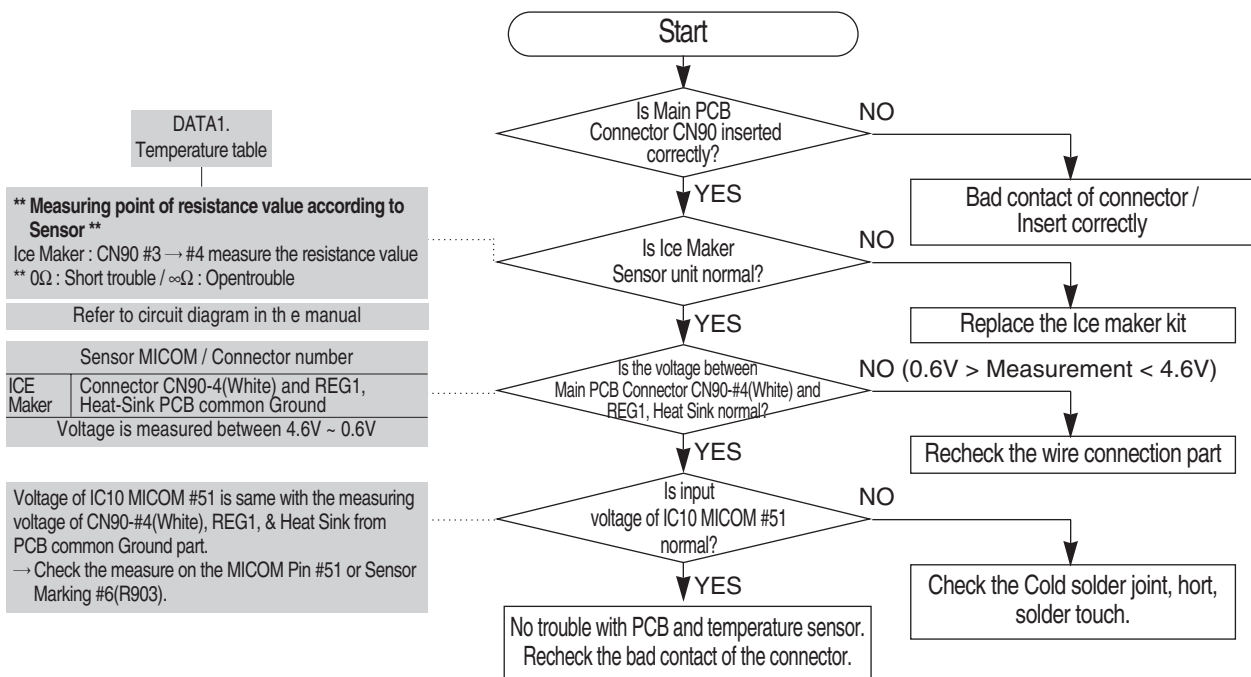
# TROUBLESHOOTING

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

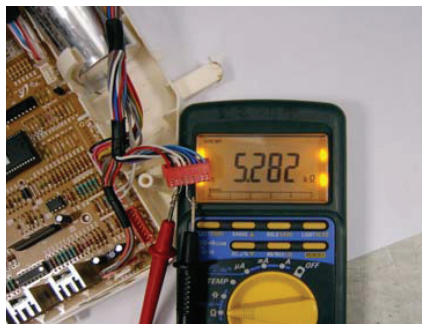
- The error of sensor will be displayed on the front of display.  
When the error of sensor is detected at initial power ON, display of abnormal sensor part will blink.
- The appliance will not stop operating when the error of sensor is detected during operation of the appliance. But normal cooling might 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



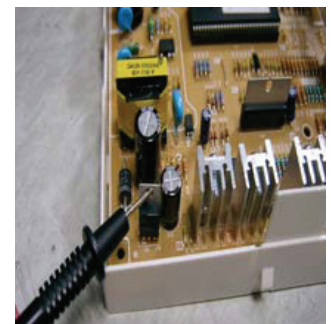
☞ Checking method of Ice Maker Sensor resistance CN90 #3(White) ↔ #4(White)  
- Compare with the temperature table after measuring.



☞ Checking method of Ice Maker Sensor voltage - Measure the voltage of Sensor Check Point #6(IC10 MICOM #51) on PCB or CN90-#4(White) ↔ REG1, Heat Sink.  
- Compare with the temperature table after measuring. Below is the Measuring voltage of CN90-#4(White) ↔ REG1, Heat Sink.



Common PCB Ground of REG1 Heat-Sink



# TROUBLESHOOTING

## 2) If R Sensor has trouble

ERROR Code



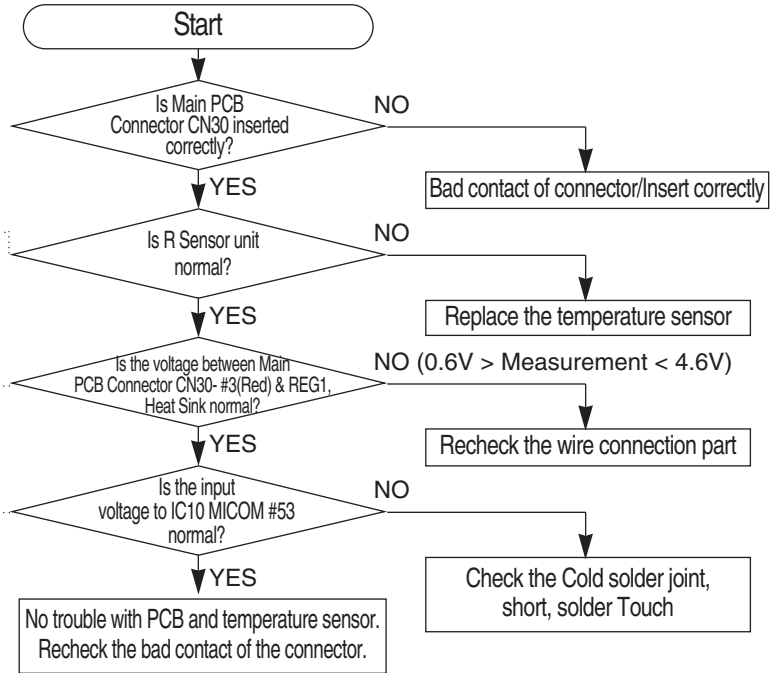
DATA1.  
Temperature Table

**\*\* Measuring point of resistance value according to Sensor \*\***  
R : CN30 #3 ↔ #8 Measure the resistance value  
\*\* ∞Ω : Short trouble / ∞Ω : Open trouble

Refer to circuit diagram in the manual

Sensor MICOM/Connector number
R Connector CN30#6(White) to REG1 HEAT-SINK PCB typical Ground
Voltage is measured between 4.6V ~ 0.6V

Voltage of IC10 MICOM #53 is same with the measuring voltage of CN30-#3(Red), REG1, & Heat Sink from PCB common Ground part.  
→ Check the measure on MICOM or Sensor Marking #1(R301).



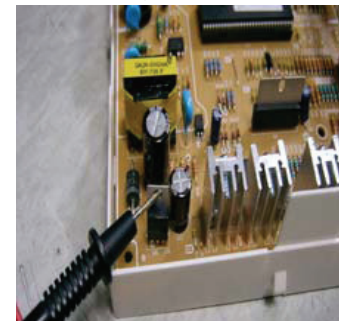
☞ Checking method of R Sensor resistance CN30-#3(White) ↔ #8(Grey)  
- Compare with the temperature table after measuring



☞ Checking method of R Sensor voltage.  
- Measure the voltage of Sensor Check Point #1(IC10 MICOM #53) on PCB or CN30-#3(Red) ↔ REG1, Heat Sink  
- Compare with the temperature table after measuring. Below is measuring voltage of CN30-#3(Red) ↔ REG1, Heat Sink.



Common PCB Ground of REG1, Heat Sink



# TROUBLESHOOTING

## 3) If R DEF Sensor has trouble

ERROR Code



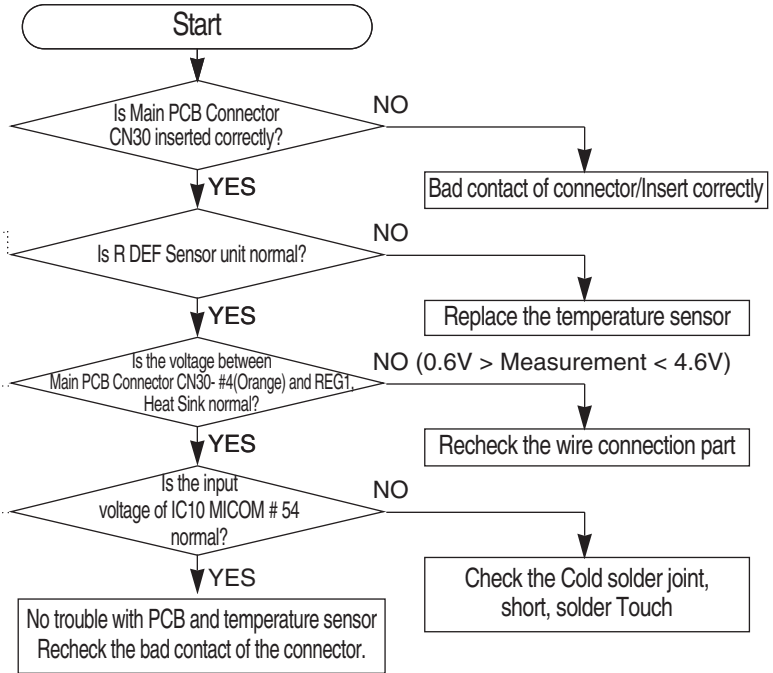
DATA1.  
Temperature Table

**\*\* Measuring point of resistance value according to Sensor \*\***  
 R-DEF : CN30 #4 ↔ #8 Measure the resistance value  
 \*\* ∞Ω : Short trouble / ∞Ω : Open trouble

Refer to circuit diagram in the manual

Sensor MICOM/Connector Number	
R DEF	Connector CN30-#4(Orange) and REG1 Heat-Sink PCB common Ground
Voltage is measured between 4.6V ~ 0.6V	

Voltage of IC10 MICOM #54 is same with the measuring voltage of CN30-#4(Orange), REG1, & Heat Sink from PCB common Ground part.  
 → Check the measure on MICOM or, Sensor Marking #2(R303).



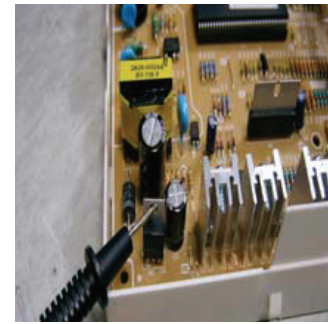
☞ Checking method of R DEF Sensor resistance  
 CN30-#4(Orange) ↔ #8(Gray)  
 - Compare with temperature table after measuring.



☞ Check method of R DEF Sensor voltage  
 - Measure the voltage of Sensor Check Point #2(IC10 MICOM #54) on PCB or CN30-#4(Orange) ↔ REG1, Heat Sink.  
 - Compare with temperature table after measuring.  
 Below is the measuring voltage of CN30-#4(Orange) ↔ REG1, Heat Sink



Common PCB Ground of REG1 Heat Sink



# TROUBLESHOOTING

## 4) If Ambient Sensor has trouble

### ERROR Code



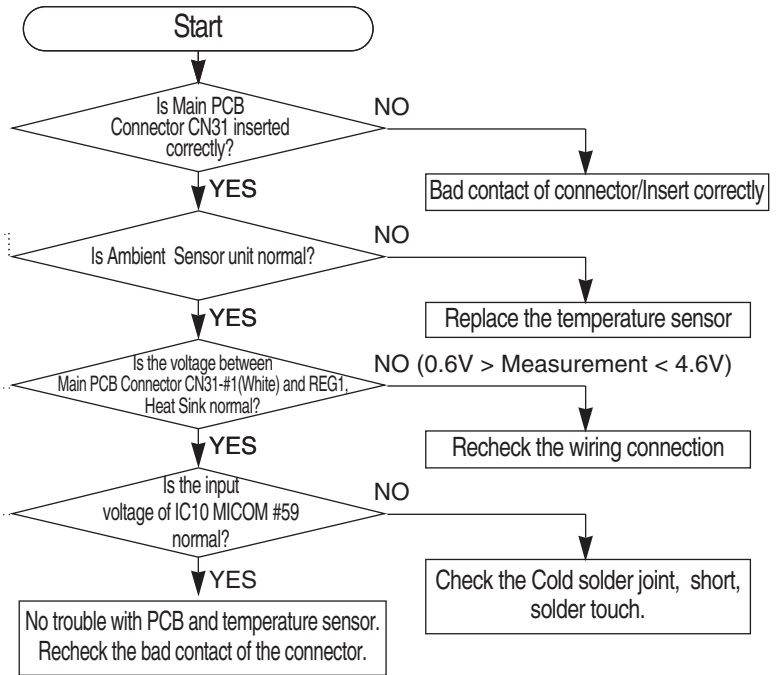
DATA1.  
Temperature table

**\*\* Measuring point of resistance value according to Sensor \*\***  
 Ambient : CN31#1 ↔ #3 Measure the resistance value  
 \*\* Placed in the right top table of upper hinge.  
 \*\* ∞Ω : Short trouble / ∞Ω : Open trouble

Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
Ambient	Connector CN31-#1 (White) and REG1 Heat-Sink PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	

Voltage of IC10 MICOM #59 is same with the measuring voltage of CN31-#1(White), REG1, & Heat Sink from PCB common Ground part.  
 → Check the measure on the MICOM or, Sensor Marking #5(R309).



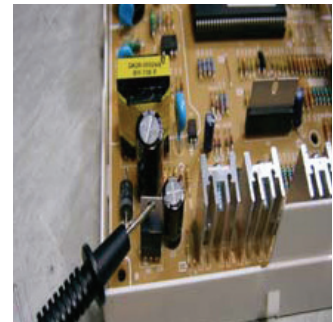
☞ Checking method of Ambient Sensor resistance  
 CN31-#1(White) ↔ #3(White)  
 - Compare with the temperature table after measuring.



☞ Checking method of Ambient Sensor voltage  
 - Measure the voltage of Sensor Check Point #5(IC10 MICOM #59) on PCB or CN31-#1(White) ↔ REG1, Heat Sink.  
 - Compare with the temperature table after measuring.  
 Below is the measuring voltage of CN31-#1(White) ↔ REG1, Heat Sink



Common PCB  
 Ground of REG1 Heater Sink



# TROUBLESHOOTING

## 5) If F Sensor has trouble

### ERROR Code



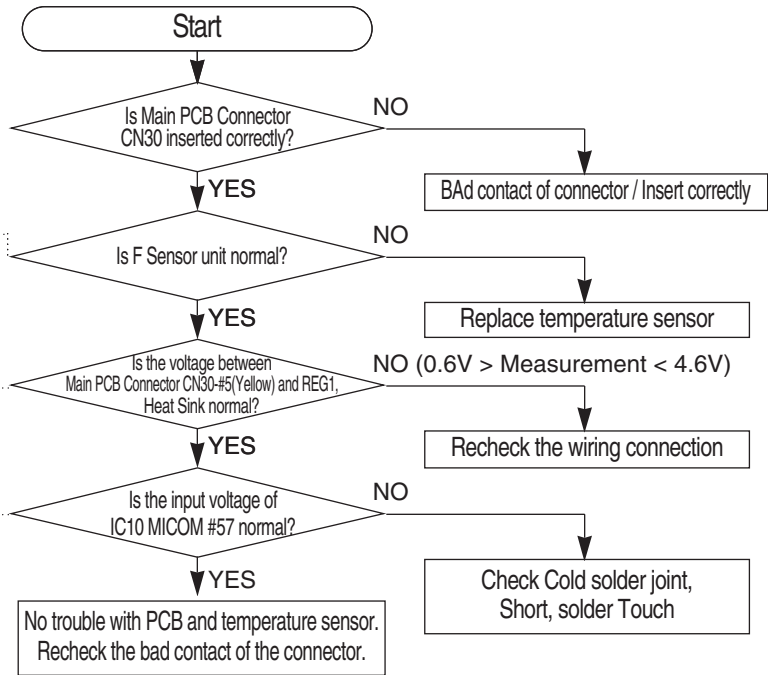
DATA1.  
Temperature table

**\*\* Measuring point of resistance value according to Sensor \*\***  
 F : CN30 #5 ↔ #8 Measure the resistance value  
 \*\* ∞Ω : Short trouble / ∞Ω : Open trouble

Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
F	Connector CN30-#5(Yellow) and REG1 Heat-Sink PCB common Ground
Voltage is measure between 4.6V ~ 0.6V	

Voltage of IC10 MICOM #57 is same with the measuring voltage of CN31-5"(Yellow), REG1, & Heat Sink from PCB common Ground part.  
 → Check the measure on MICOM or, Sensor Marking #3(R305).



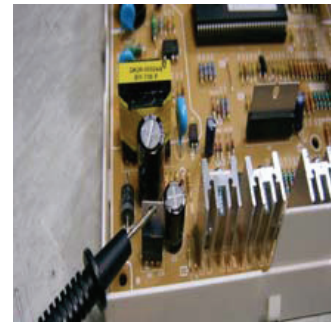
- ☞ Checking method of F Sensor resistance CN30-#5(Yellow) ↔ #8(Grey)
- Compare with the temperature table after measuring.



- ☞ Checking method of F Sensor voltage
  - Measure the voltage of Sensor Check Point #3(IC10 MICOM #57) on PCB or CN30-#5(Yellow) ↔ REG1, Heat Sink.
  - Compare with the temperature table after measuring.
- Below is the measuring voltage of CN30-5"(Yellow) ↔ REG1, Heat Sink.



common PCB Ground of REG1 Heater Sink



# TROUBLESHOOTING

## 6) If F DEF Sensor has trouble

ERROR Code



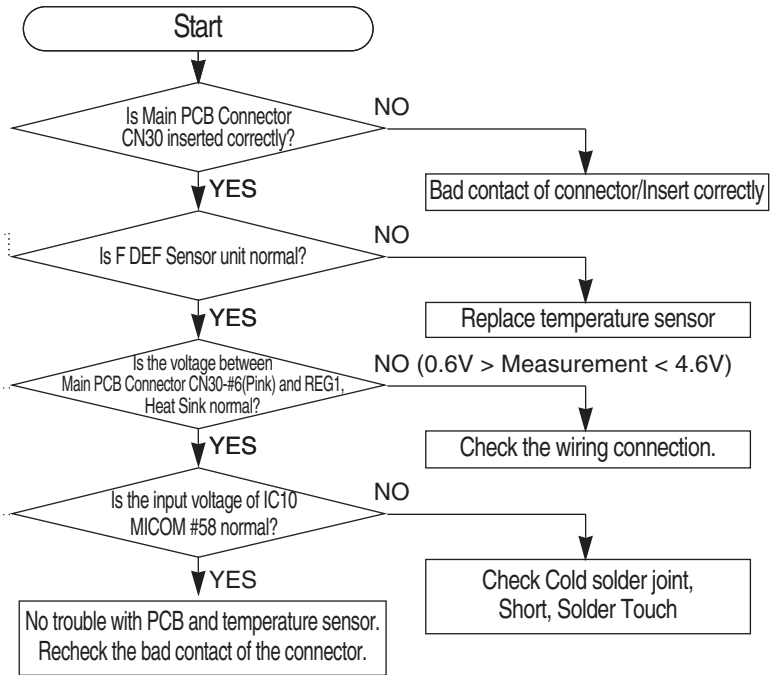
DATA1.  
Temperature table

**\*\* Measuring point of resistance value according to Sensor \*\***  
 F-DEF : CN30 #6 ↔ #8 Measure the resistance value  
**\*\* ∞Ω : Short trouble / ∞Ω : Open trouble**

Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
F DEF	Connector CN30-#6(Pink) and REG1 Heat-Sink PCB commonGround
Voltage is measured between 4.6V ~ 0.6V	

Voltage of IC10 MICOM #58 is same with the measuring voltage of CN30-6"(Pink) and REG1, & Heat Sink from PCB common Ground part.  
 → Check the measure on MICOM or, Sensor Marking #4(R307).



☞ Checking method of F DEF Sensor resistance  
 CN30-#6(Pink) ↔ #8(Grey)  
 - Compare with the temperature table after measuring.



☞ Checking method of F DEF Sensor voltage  
 - Measure the voltage of Sensor Check Point #4(IC10 MICOM #58) on PCB or CN30-6"(Pink) ↔ REG1, Heat Sink.  
 - Compare with the temperature table after measuring.  
 Below is the measuring voltage of CN30-6"(Pink) ↔ REG1, Heat Sink



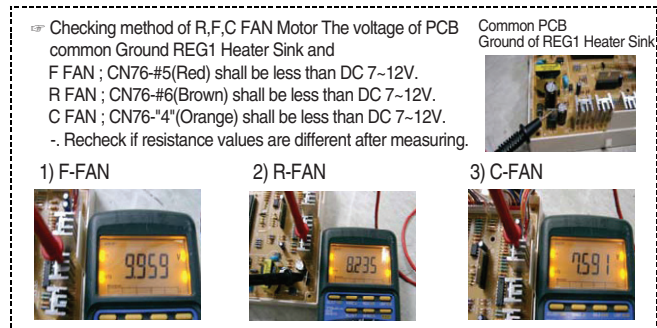
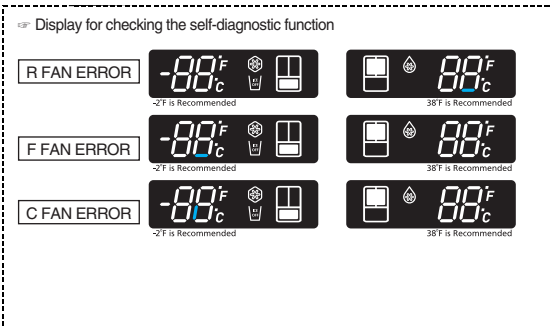
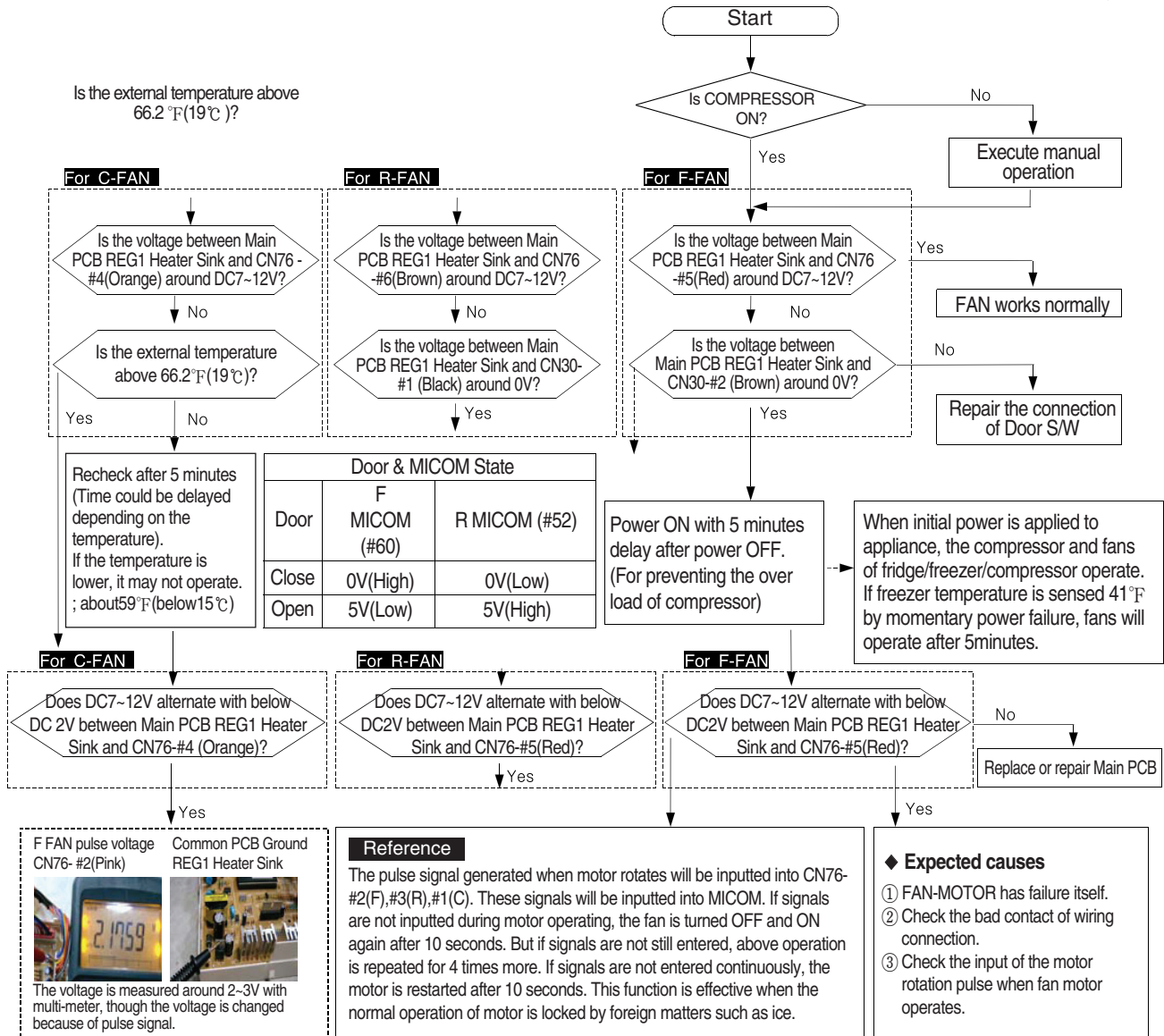
Common PCB  
 Ground of REG1 Heater Sink



# TROUBLESHOOTING

## 4-2-2. If FAN does not operate (F, R, C - FAN)

- 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.





# TROUBLESHOOTING

## 4-2-3. If Ice Maker does not operate

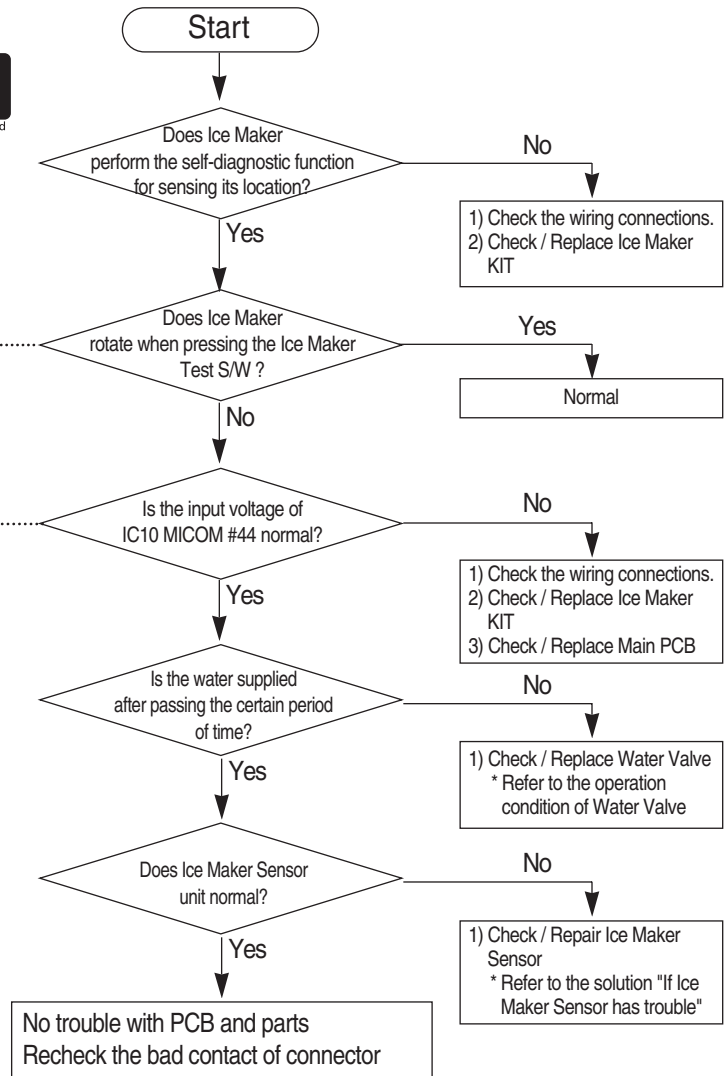
1. Water is automatically supplied to the Ice Maker by temperature & time and Ice Maker dispenses cubed or crushed ice.
2. Power is applied to the one end of wires all the time, so be careful when disassembling and shell refer to its exploded diagram in any case.
3. Ice Maker operation shall be checked after pressing the Ice Maker Test S/W.(Freezer Ice Maker) it is impossible to check when the power is disengaged.

### ERROR Code



MICOM(IC10) Operation Status		
#46 (Test Switch)	Ready	Operation
	5V	0V

MICOM(IC10) Operation Status					
	Ready	Rotation	Half Rotation	Return Rotation	Ready
#44	5V	0V	5V	0V	5V



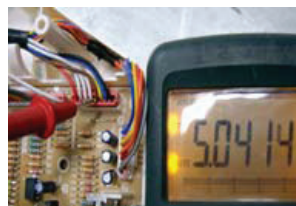
### ☞ Checking method of Ice Maker Voltage

The voltage between PCB common Ground REG1 Heater Sink and  
 1) Test Switch Operation (press selected) ; CN90-#5(Gray) shall be DC 0V.  
 Test Switch Ready ; CN90-#5(Gray) shall be less than DC 5V.

1)Test Switch Operation



1)Test Switch Ready



Common PCB  
Ground of REG1 Heater Sink



### ☞ Checking Method of Ice Maker Voltage

PCB common Ground REG1 Heater Sink and  
 2) IC10 MICOM #44 voltage ; Ready(5V) → Rotation(0V) → Half Rotation(5V) → Return(0V) → Ready(5V)  
 \* MICOM #44 voltage is same as Connector CN90-7(Purple).

# TROUBLESHOOTING

## 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 referring to the self-diagnostic function)



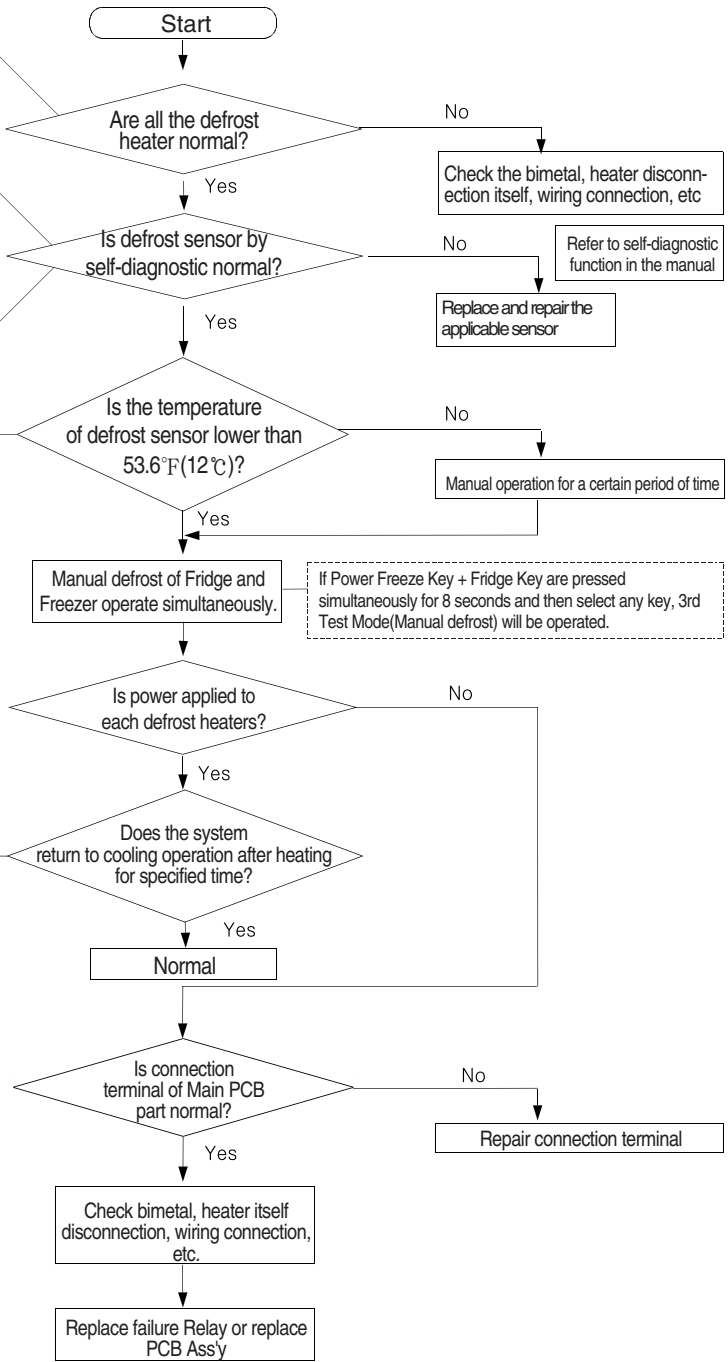
**\*\* Measuring point of defrost value according to Heater \*\***  
 F-DEF : CN72 #7(Brown) ↔ #3(Orange)  
 measure the resistance value(66/240 ohm ± 10%)  
 R-DEF : CN72 #5(White) ↔ #3(Orange)  
 measure the resistance value(103(120)/397ohm ± 10%)  
**\*\* 0 Ω : Short trouble / ∞ Ω : Open(Bimetal, heater) trouble**

**\*\* Measuring point of resistance value according to Sensor \*\***  
 F-DEF : CN30 #6 ↔ #8 measure the resistance value  
 R-DEF : CN30 #4 ↔ #8 measure the resistance value  
**\*\* 0 Ω : Short trouble / ∞ Ω : Open trouble**

Resistance value of sensor according to temperature	
86°F(30°C)	4.22 kΩ
68°F(20°C)	6.05 kΩ
50°F(10°C)	8.87 kΩ
32°F(0°C)	13.29 kΩ
14°F(-10°C)	20.42 kΩ
-4°F(-20°C)	32.23 kΩ
-22°F(-30°C)	52.41 kΩ

Refer to DATA1.  
Temperature Table for the detailed temperature.

**\*\* Measuring Point of resistance value according to Sensor \*\***  
 PCB common Ground REG1 Heater Sink and  
 F-DEF:CN30 #6 (or Sensor Marking #4(R307),  
 R-DEF:CN30 #4 (or Sensor Marking #2(R303),  
 measure the resistance value.  
**\*\* 0V : Short trouble / 5V : Open trouble**



Recheck the applicable sensor which is not returned.

**Reference**  
 If defrost sensor temperature of fridge & freezer are higher than 50°F(10°C) & 53.6°F(12°C) by the heating of heater, heating will be finished and returns to the cooling operation after making a pause.

Checking method of F,R DEF Heater resistance value.  
 F DEF : CN72-#7(Brown) ↔ #3(Orange)  
 R DEF : CN72-#5(White) ↔ #3(Orange)  
 -. Check additionally, if resistance values are different after the measuring.

1) F DEF Heater      2) R DEF Heater

# TROUBLESHOOTING

## 4-2-5. If Power is not supplied

### Caution

At the power of main PCB, AC input power and a high voltage over DC170V(325V) are occurred. Please take care of yourself on repair and measurement.

- Refer to function and 'reference' parts in the manual when checking Main PCB

Common PCB Ground  
REG1 Heater Sink



Input Voltage  
115V ± 15%

Check in SMPS part

☞ Checking method of voltage SMPS input ; VAR1 both terminals, or CN10 both terminal AC power.



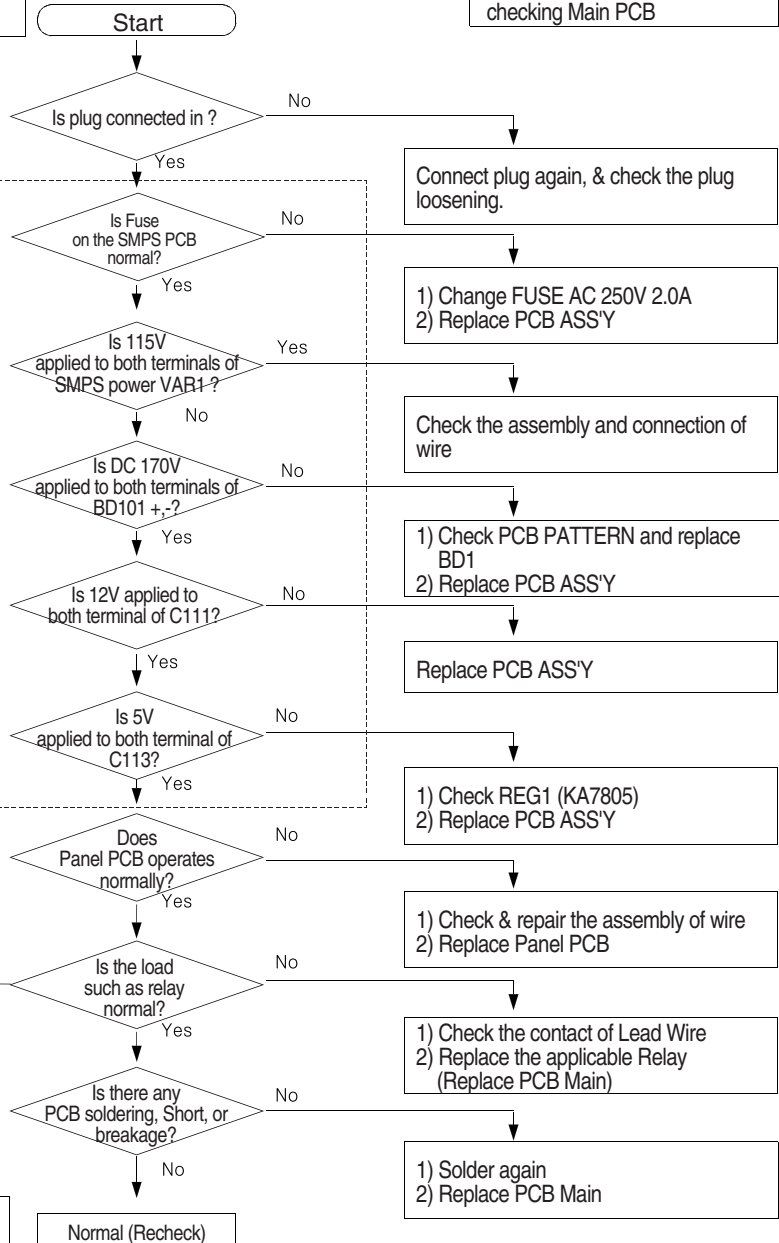
☞ Checking method of DC secondary output voltage REG1 input ; Regulator 7805 input → Same with C111 both terminals.  
DC 12.0V ± 0.8V



☞ Checking method of DC secondary output voltage REG1 input ; Regulator 7805 input → Same with C113 both terminals.  
DC 5V ± 0.5V



- Check Main PCB connection
- Check the connections between upper hinge Cabi-Door
- Check Door Panel PCB connection



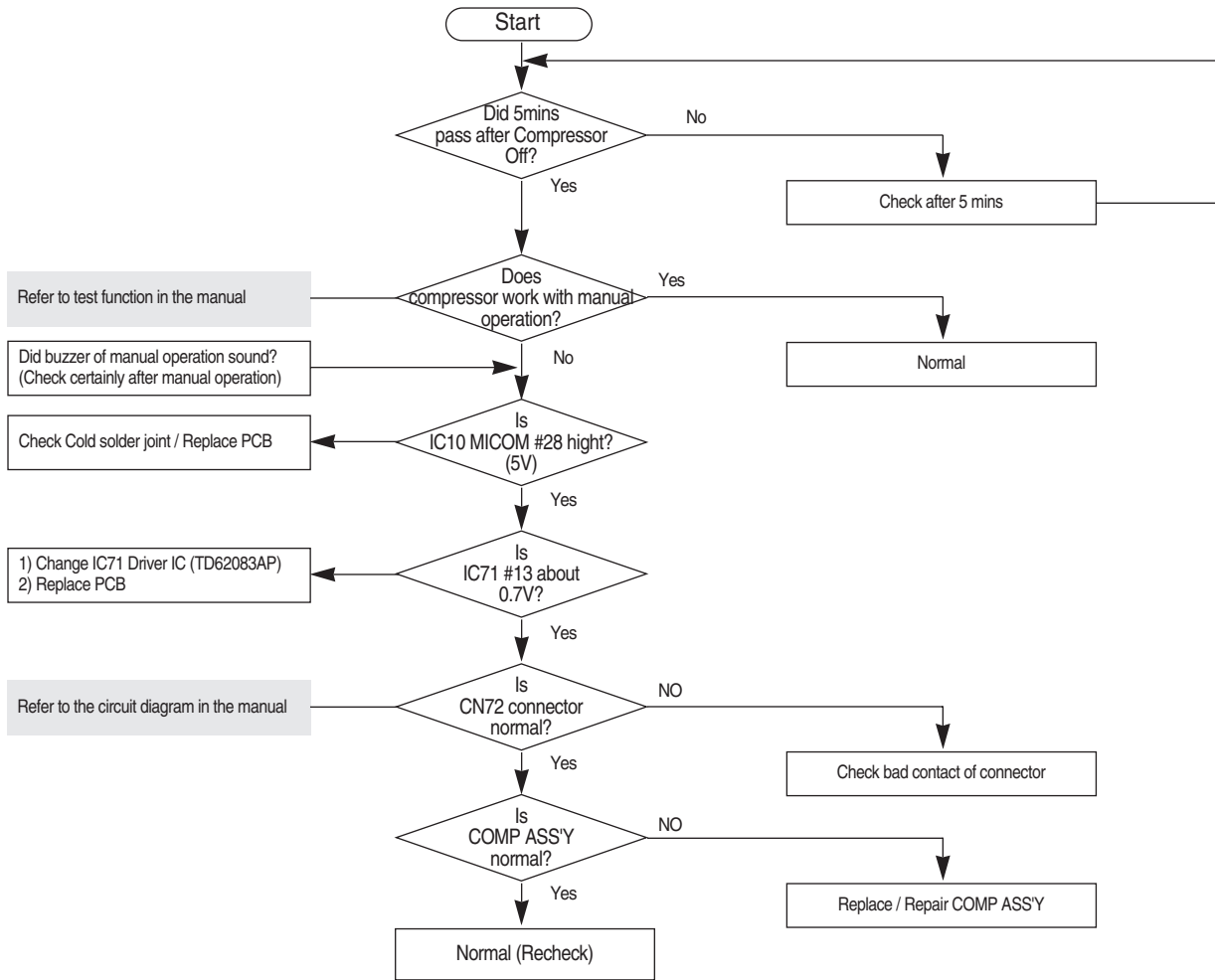
# TROUBLESHOOTING

## 4-2-6. If compressor does not operate

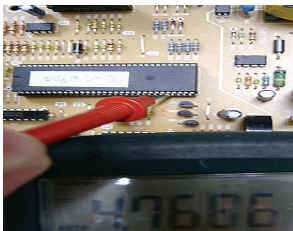
### Preliminary Inspection

"Check the compressor with selecting the manual operation"

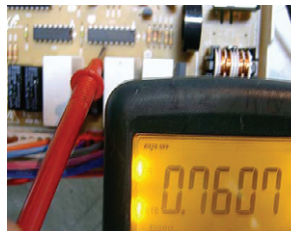
1. Compressor does not work, unless 5mins pass after satisfying the temperature.
2. Compressor does not work during defrosting.
3. Compressor does not work because it sensing low temperature, unless the fridge & freeze sensor is connected.



☞ Checking method of voltage  
PCB common Ground REG1 Heater Sink and  
1) IC10 MICOM #28 ; Voltage is high  
(5V ±0.5V) when compressor is working.



☞ Checking method of voltage  
PCB common Ground REG1 Heater Sink and  
1) IC71 #13 ; Voltage is Low (0.7V) when  
compressor is working.



Common PCB Ground  
REG1 Heater Sink



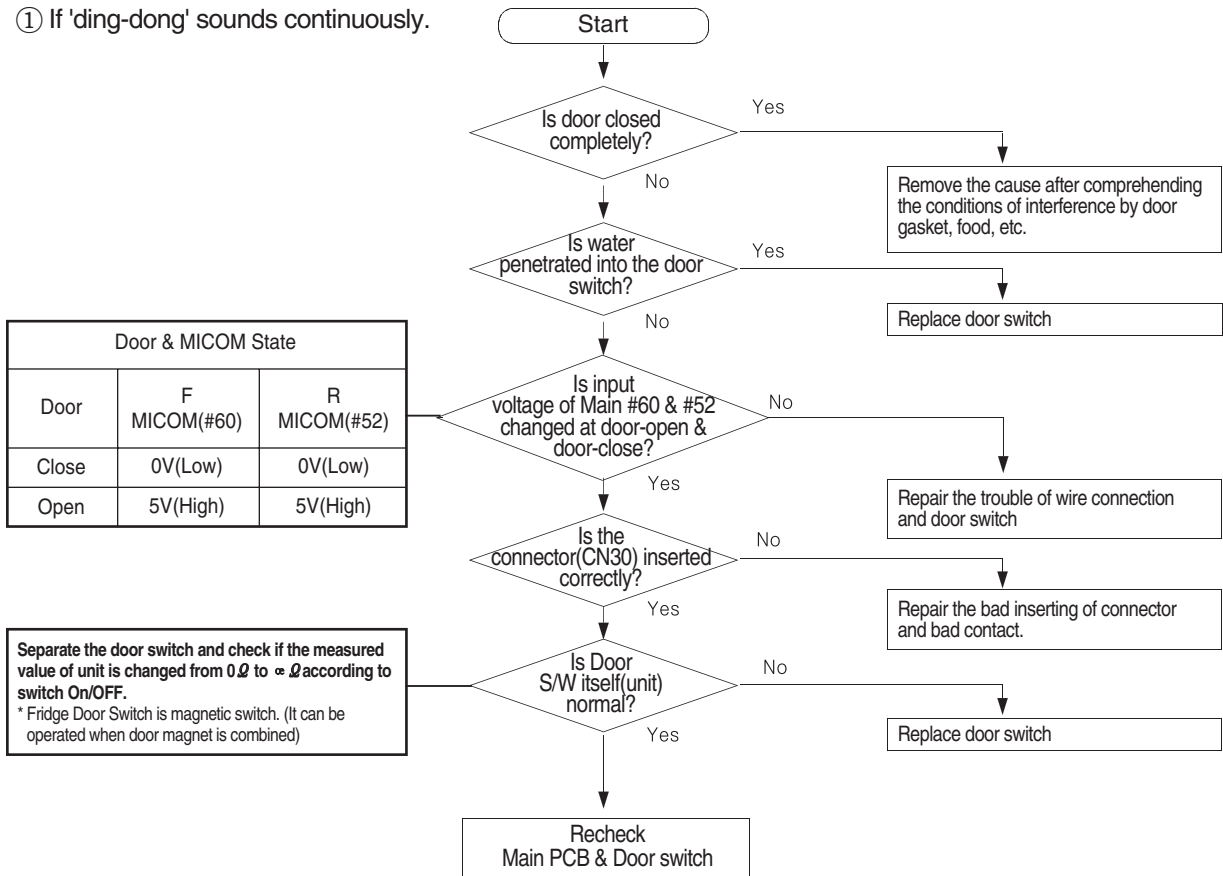
# TROUBLESHOOTING

## 4-2-7. If alarm sounds continuously without stop (Related with buzzer sound)

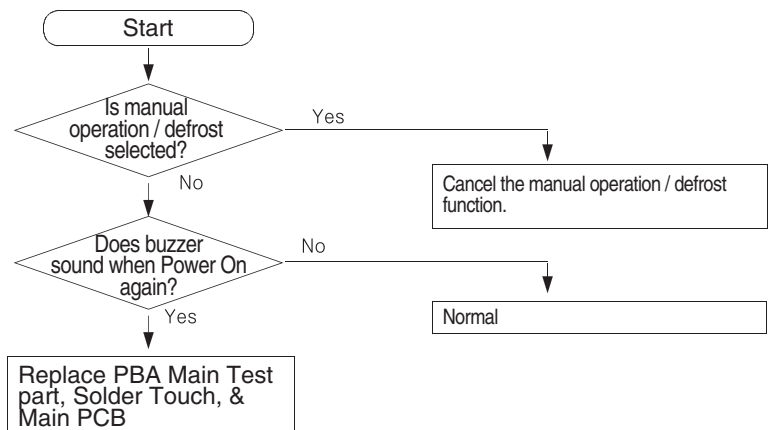
### Preliminary Inspection

1. The alarm of freezer / fridge will sound(Ding-dong) after 2minutes from initial door open, and it keeps sounding(ding-dong) at 1 minutes intervals when opening afterward.
2. The alarm sounds because MICOM sense as door-open when door is not pressed completely. So refrigerator inner lamp will be OFF after 10minutes from sensing door-open. In this case, the inner lamp will not ON though the door is opened actually.

① If 'ding-dong' sounds continuously.



② If 'beep-beep' sounds continuously.

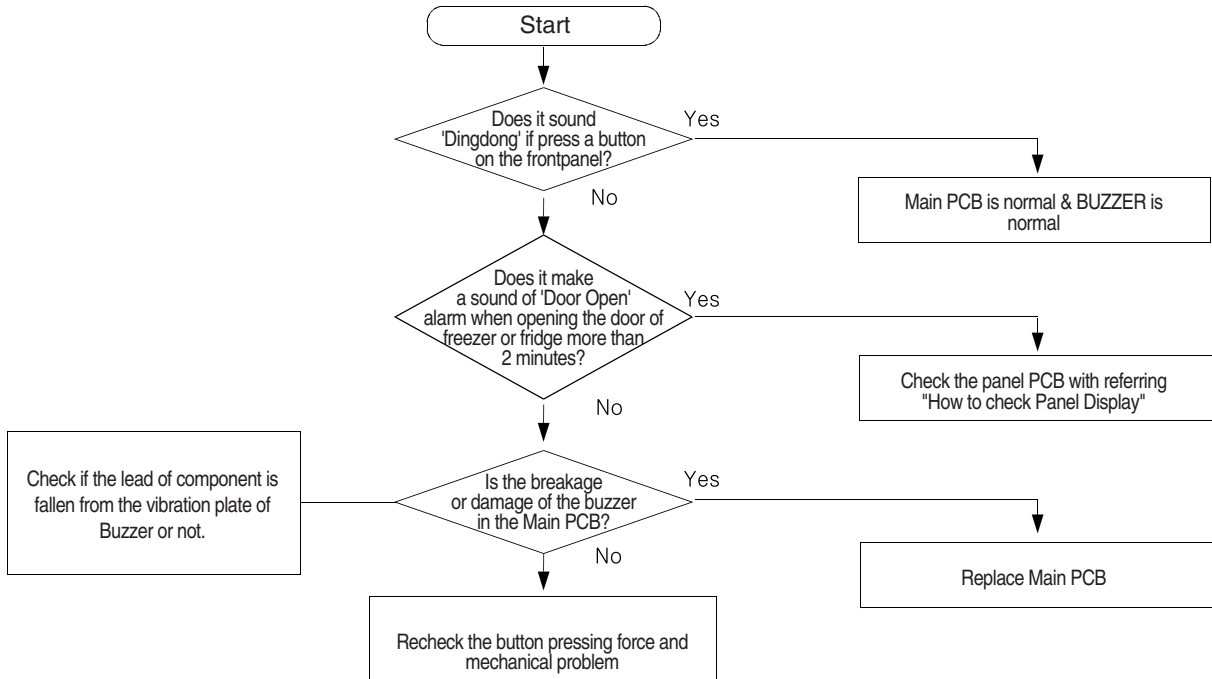


# TROUBLESHOOTING

## ③ If buzzer does not sound

If buzzer does not sound when button is pressed, manual operation is started, or door is opened, separate Main PCB and then check the breakage of buzzer, bad soldering, etc.

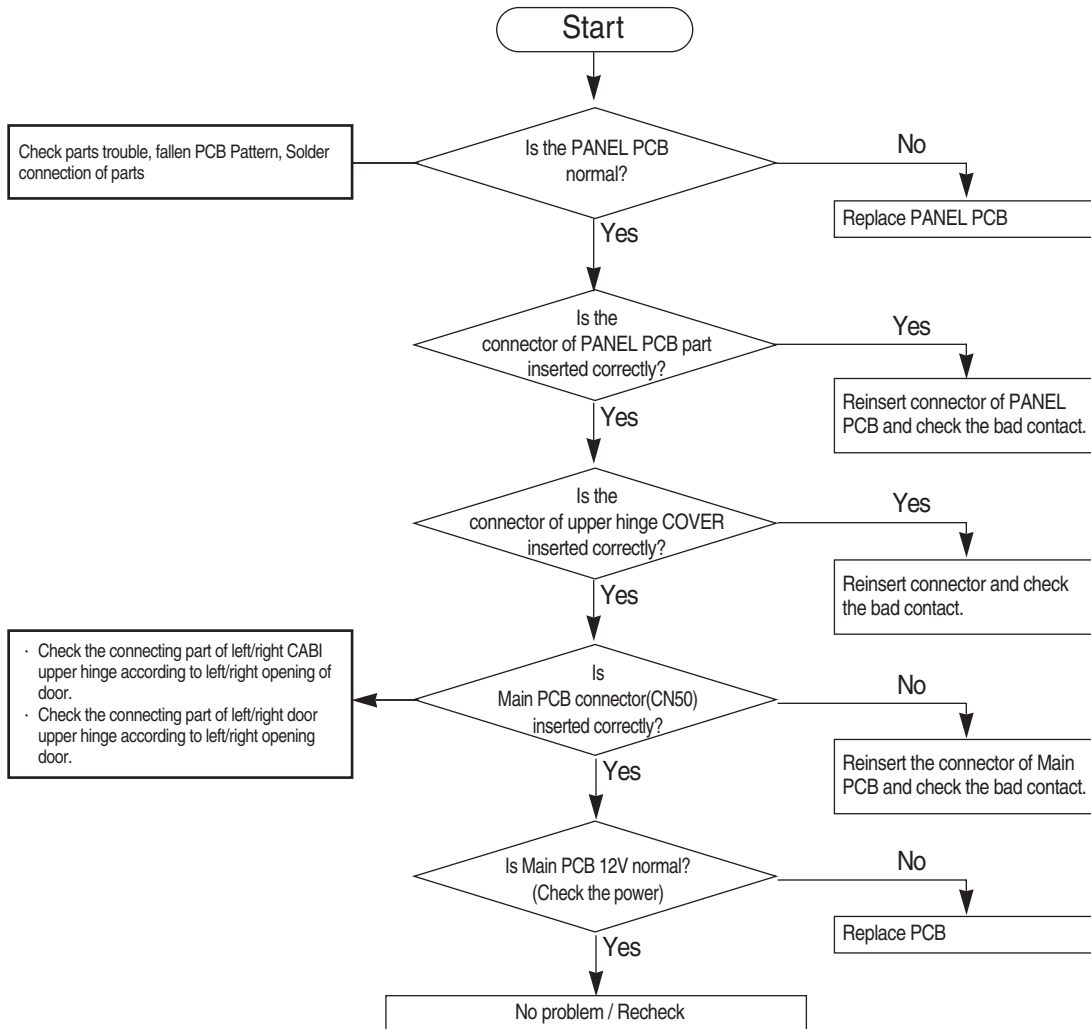
(It is recommended to replace Main PCB when the failure of parts is occurred after checking.)



# TROUBLESHOOTING

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

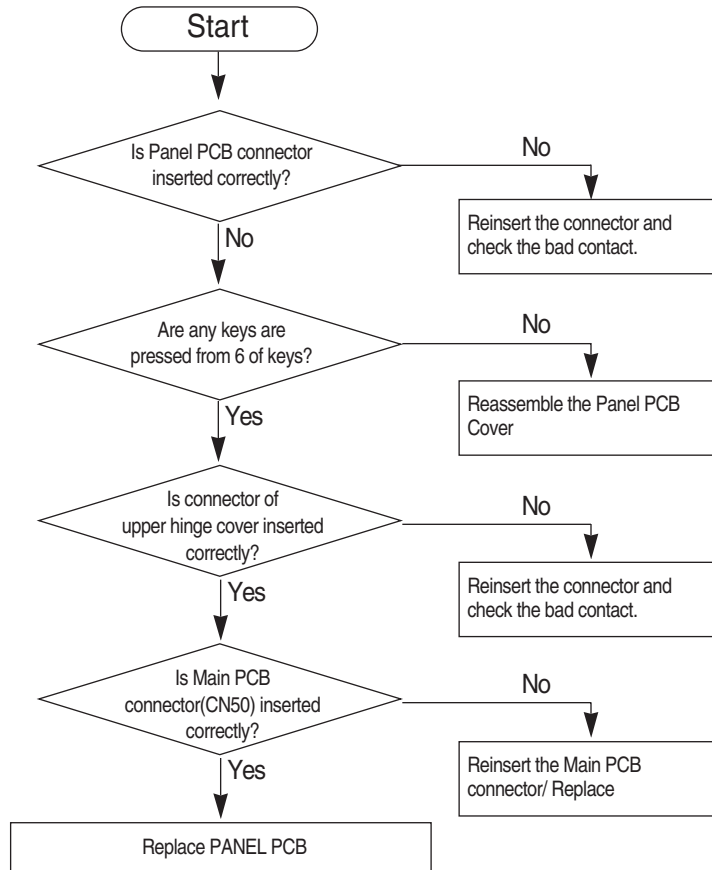
### ① When lightning of Panel PCB is disabled



- ① Door Part - Check the connecting wire of upper hinge Panel - Check the disconnection & short between wires.
- ② Freezer upper CABI - Check the wires between Main PCB - Check the disconnection & short between wires.

# TROUBLESHOOTING

② If Panel PCB Key is not selected



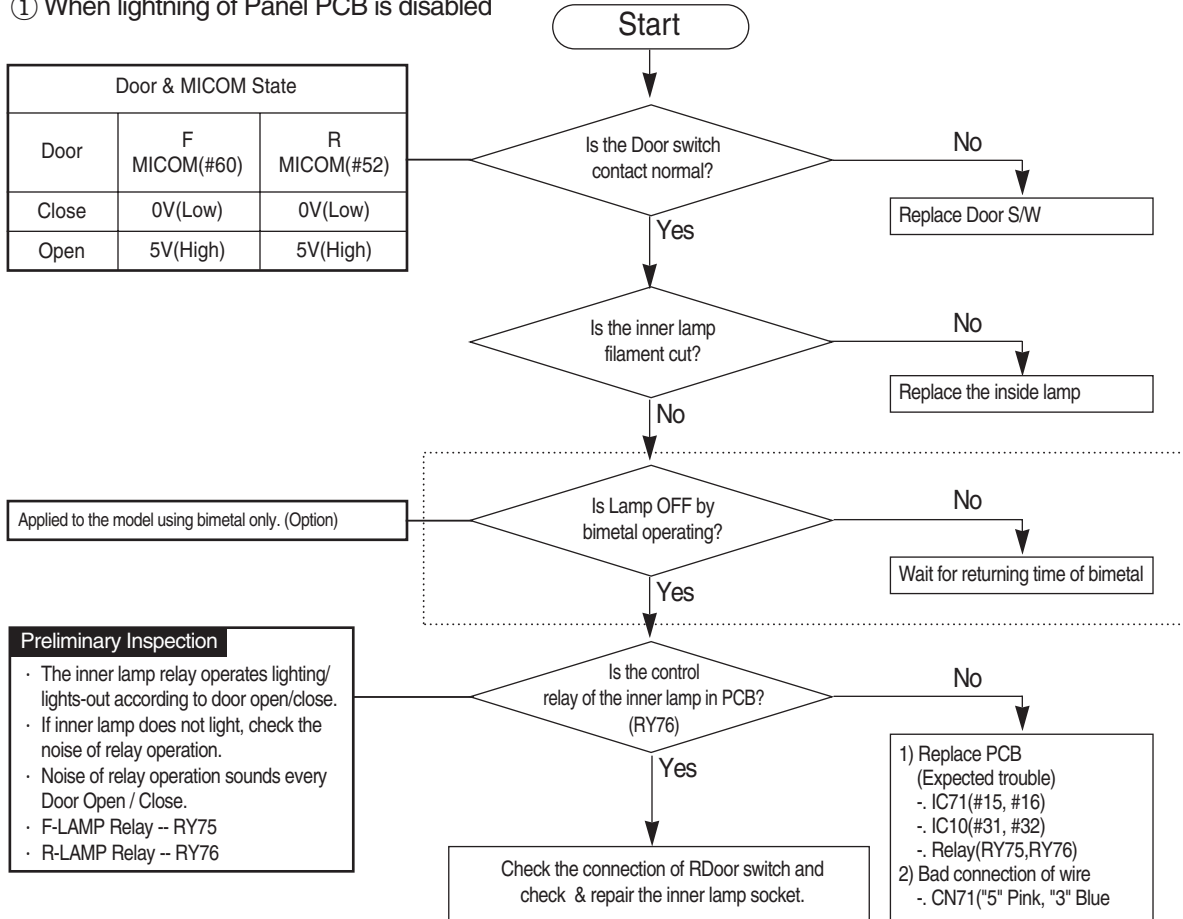


# TROUBLESHOOTING

## 4-2-9. If refrigerator Room Lamp does not light up (F,R - Same condition)

1. When you replace the lamp of freezer/fridge, please power off/unplug AC Cord 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. (It may be deleted per model.)

### ① When lightning of Panel PCB is disabled



### Preliminary Inspection

If the door is opened, the contact of door switch will be opened and MICOM will get applied 5V and finally it senses the door open. If it sense 5V for more 2 minutes afterward, Door-open alarm will sound "Ding-Dong" for 10 seconds in 1 minute cycle. Therefore, if the door switch has failure, the refrigerator can make a "Ding-Dong" sound per 1 minute cycle. Please refer this for its service.

☞ When measure the lamp resistance to the wire, → Resistance can be changed by Lamp input voltage.  
(Below is the actual measurement and the valued can be changed by function.)

☞ Fridge Lamp (Option)  
CN72-#9 (Red) ↔ CN71#3 (Blue)  
; 270Ω ± 10%  
Lamp ; 40W (Basis on 120V)

☞ Freeze Lamp  
CN72-#9 (Red) ↔ CN71#5 (Pink)  
; 250Ω ± 10%  
Lamp ; 40W (Basis on 120V)

☞ Checking method of Door Switch voltage

- PCB common Ground REG1 Heater Sink and CN30-"2" (Brown) : measure the voltage (R Door Switch)
- CN30-"1" (Black) : measure the voltage (F Door Switch)

=> See the R DOOR Switch at the following picture

CLOSE Common PCB Ground REG1 Heater Sink

OPEN

# TROUBLESHOOTING

## 4-2-10. No water supply to the ice maker.

### Preliminary Inspection

1. Water supplies directly to water valve. Please shut off the water supplying prior to repair.
2. Power is applied to the one end of wires. Be careful when disassembling not to get an electric shock.
3. To check the Ice Water Valve operation, shall press the Ice Maker Test switch and then check the operation.  
(Ice Maker in freezer)



Common PCB Ground  
REG1 Heater Sink

☞ Checking method of voltage

Based on PCB common Ground REG1 Heater Sink

- 1) Check the voltage of IC71 #5 (Same voltage as IC10 #30)  
-When Ice Water valve operating (About  $5V \pm 0.5V$ )



Based on PCB common Ground REG1 Heater Sink  
2) IC71 #14 voltage

- When Ice Water valve waiting (About  $12V \pm 0.7V$ )
- When Ice Water valve waiting (About  $0.7V \pm 0.5V$ )



- 3) Check the voltage of Ice Water Valve operation (AC Voltage)

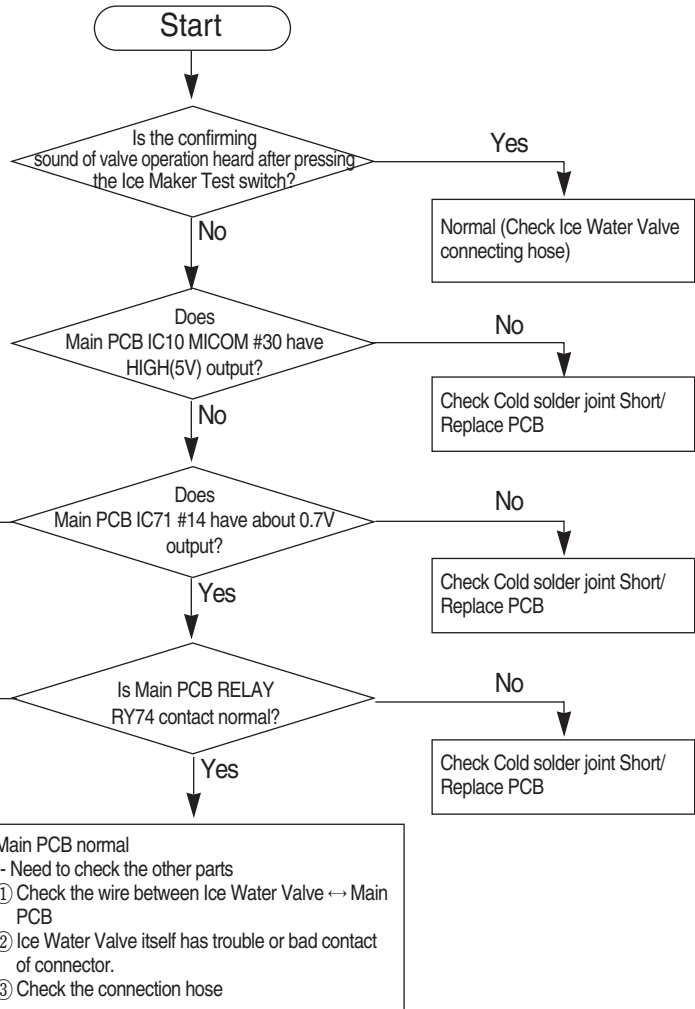
⇒ For checking Relay RY74 operation.

CN72-#9(Red) ↔ CN71-#9(Purple)

- When Ice Water valve waiting (About AC 0V)

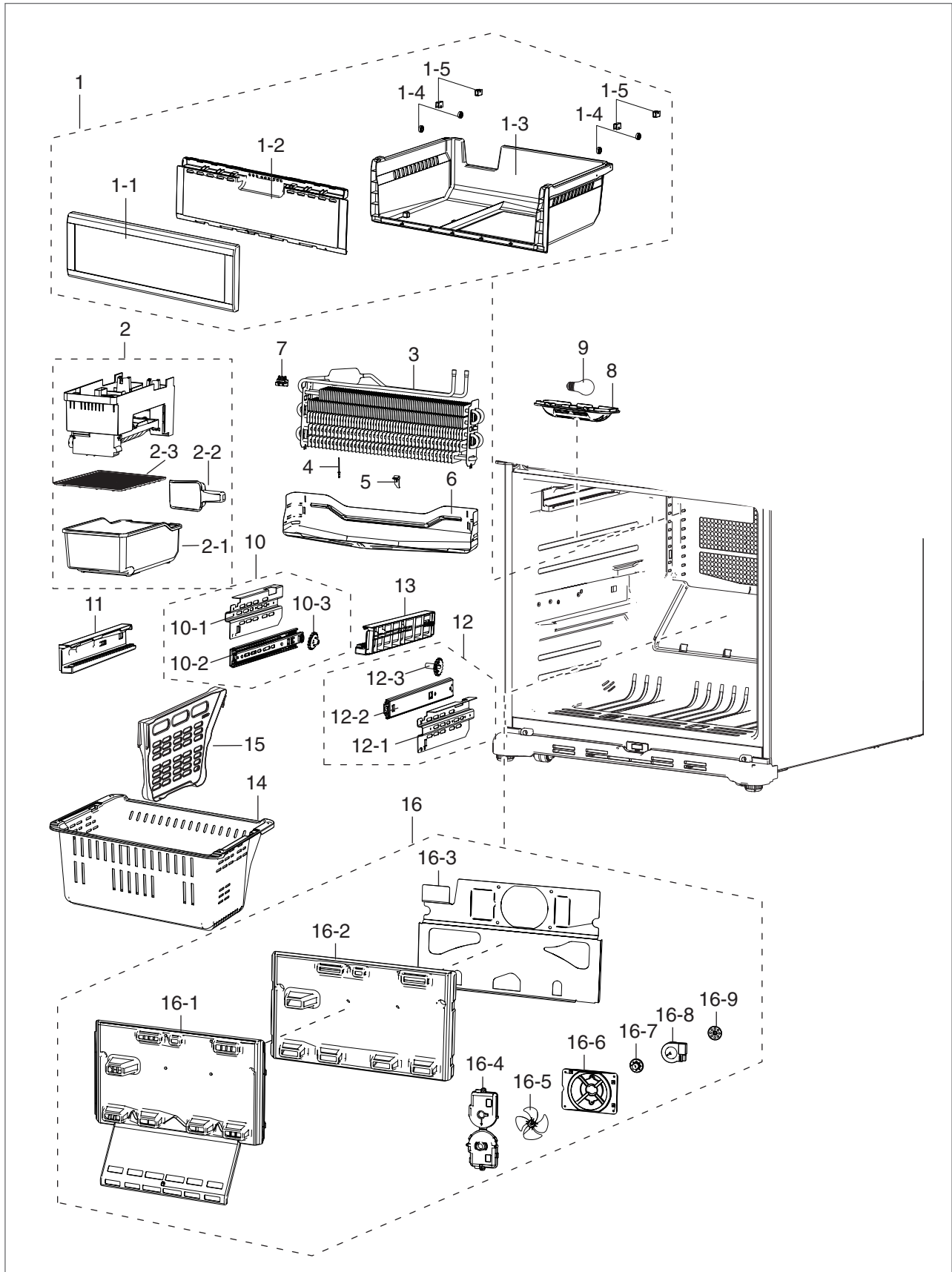


- When Ice Water valve operating (About AC  $115V \pm 20\%$ )



# 5 . EXPLODED VIEW & PARTS LIST

## 5-1) Freezer



## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Freezer (RF217AB)

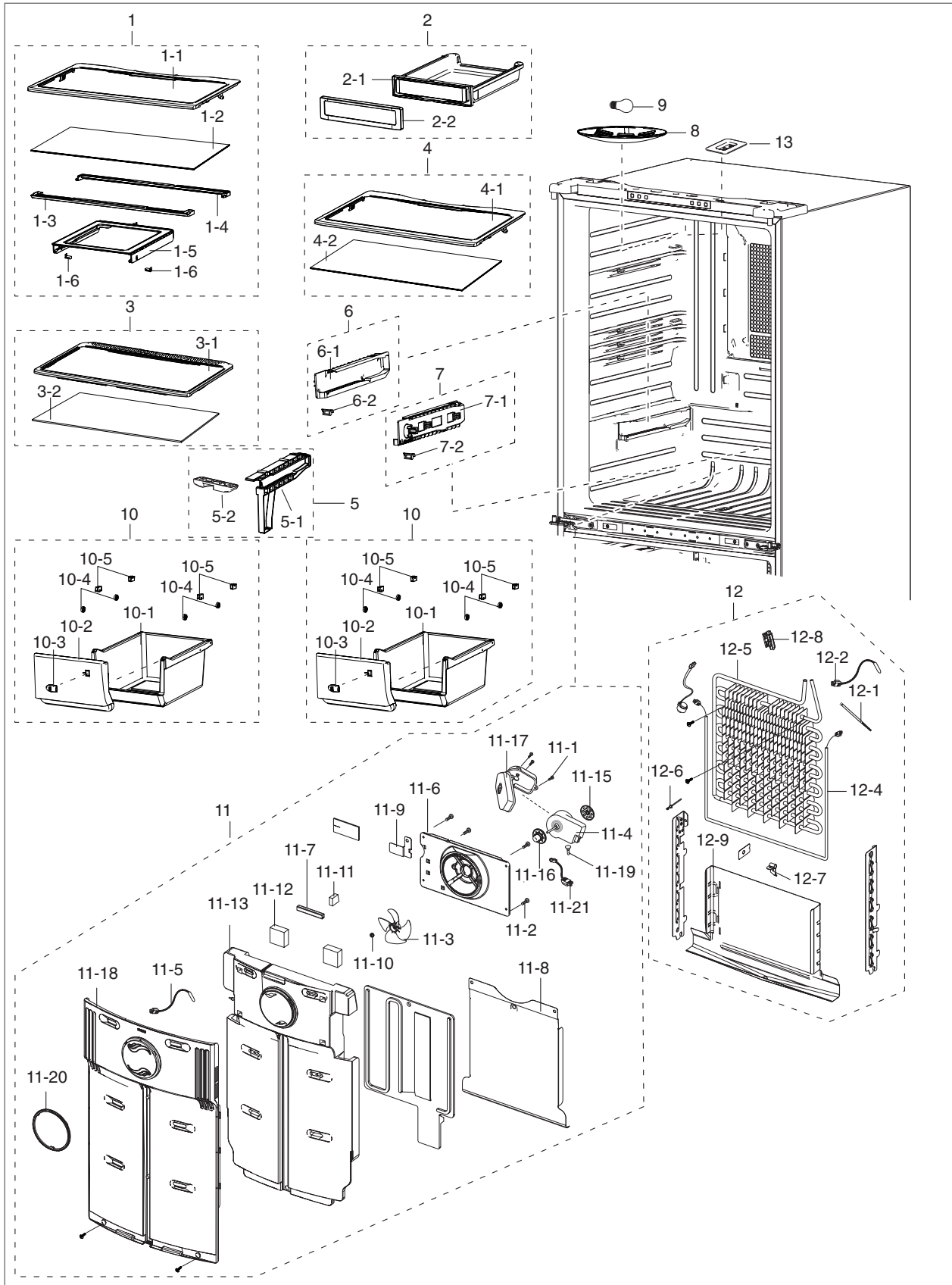
NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-06669A	ASSY TRAY-FRE UPP	NW2-PJT,-,-,-,21CU ft	1	RI242
1-1	DA63-04455A	COVER-TRAY FRE UPP A	NW2-PJT,HIPS,-,-,-,COOL WHT,-	1	RI064
1-2	DA63-04456A	COVER-TRAY FRE UPP B	NW2-PJT,GPPS,-,-,-,-,-	1	RI062
1-3	DA63-04457A	TRAY-FRE UPP	NW2-PJT,HIPS,-,-,-,COOL WHT,21INCH	1	RI064
1-4	DA66-10104A	ROLLER-FRE	POM,-,-,D22,-,-	4	RW648
1-5	DA71-20145A	FIXER-ROLLER	61BU	4	RH029
2	DA90-04793A	ASSY ICE MAKER	NW2,AUTO ICE MAKER,-,-,-,-	1	RM001
2-1	DA61-03189A	CASE-ICE CUBE	AW-PJT,PP,-,-,-,COOL WHITE,-	1	RM012
2-2	DA67-01231A	SCOOP ICE	W2-PJT(05),PP(BJ-703T4),-,-,SC-02740R,-	1	RI247
2-3	DA63-05155A	TRAY-CASE ICE CUBE	AW2-CD,LDPE,NTR	1	
3	DA96-00480A	ASSY EVAP-FRE	NW2-PJT,-,-,-,-,115V/240W,-	1	RF011
4	DA60-90005A	RIVET-AVEX	AL,D3.2,L9.83,-,-	1	
5	DA61-02901A	FIXER-SENSOR EVAP	CORE-PJT,PP,-,-,NTR,-	1	RI157
6	DA61-04462A	PLATE-DRAIN FRE	NW2-PJT,GALVANUME,T0.3,-,516,-,-	1	RF026
7	DA47-00243C	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M, PW-5M1N	1	RI074
8	DA63-04296A	COVER LAMP-FRE	AW2,PC,-,-,-,-,Transparent,-	1	RF031
9	4713-001206	LAMP-INCANDESCENT	120V,340mA,40W,FROST,-,-,-	1	RI081
10	DA97-06703A	ASSY RAIL-SLIDE LOW L	NW2-PJT,-,-,-,-,21Cu.ft	1	RI171
10-1	DA61-04464A	HANGER-RAIL LOW L	NW2-PJT,SECC1,T1.6,COOL WHT,-,-,-	1	RD094
10-2	DA61-04512A	RAIL-SLIDE LOW L	NW2-PJT,STS304,-,-,431,-,21Cu.ft	1	RI184
10-3	DA66-00436A	GEAR-L	AW-PJT,POM,-,-,-,NTR,-,-,-	1	RI242
11	DA61-04507A	SUPPORT-RAIL LOW L	NW2-PJT,ABS,-,-,-,COOL WHT,21CU ft	1	
12	DA97-06702A	ASSY RAIL-SLIDE LOW R	NW2-PJT,-,-,-,-,21Cu.ft	1	RI173
12-1	DA61-04465A	HANGER-RAIL LOW R	NW2-PJT,SECC1,T1.6,COOL WHT,-,-,-	1	RD095
12-2	DA61-04513A	RAIL-SLIDE LOW R	NW2-PJT,STS304,-,-,431,-,21Cu.ft	1	RI185
12-3	DA66-00435A	GEAR-R	AW-PJT,POM,-,-,-,NTR,-,-,-	1	RI242
13	DA61-04506A	SUPPORT-RAIL LOW R	NW2-PJT,ABS,-,-,-,COOL WHT,21CU ft	1	
14	DA63-04447A	TRAY-DRAWER BOX	NW2-PJT,PP,-,-,-,COOL WHITE,21INCH	1	RI237
15	DA61-05425A	GUIDE-DRAWER BOX	NW2-FDR,TALC PP,W403.9,L256.6,COOL WHITE	1	
16	DA97-06657A	ASSY COVER-EVAP FRE	NW2-PJT,-,-,-,-,-,-,-	1	RF005
16-1	DA63-04444A	COVER-EVAP FRE	NW2-PJT,PP,-,-,-,-,COOL WHT,-	1	RF005
16-2	DA62-01942A	INSULATION-EVAP FRE	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI232
16-3	DA61-04461A	PLATE-INS EVAP FRE	NW2-PJT,GALVALUME,T0.3,-,-,-,-	1	RF092
16-4	DA63-01809A	COVER MOTOR-BLDC	BLDC-NEW,PP,NTR,-,-,-,-,BJ-730	1	RF083
16-5	DA31-00124A	FAN-AX100W4CC-T1	-,TD-PJT,ABS,-,-	1	RI085
16-6	DA61-03183A	CASE-MOTOR FRE	AW-PJT,BUBBLE PP,-,-,-,NTR,-	1	RF120
16-7	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,-,-,-,-,H20	1	RO137
16-8	DA31-00146H	MOTOR BLDC	-,2950,-,DC12V,150mA,-,-,2.1W,-,-,-,-,-,-	1	RI089
16-9	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	RO138

■ Parts List of Freezer (RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-06669A	ASSY TRAY-FRE UPP	NW2-PJT,-,-,-,21CU ft	1	RI242
1-1	DA63-04455A	COVER-TRAY FRE UPP A	NW2-PJT,HIPS,-,-,-,COOL WHT,-	1	RI064
1-2	DA63-04456A	COVER-TRAY FRE UPP B	NW2-PJT,GPPS,-,-,-,-,-	1	RI062
1-3	DA63-04457A	TRAY-FRE UPP	NW2-PJT,HIPS,-,-,-,COOL WHT,21INCH	1	RI064
1-4	DA66-10104A	ROLLER-FRE	POM,-,-,D22,-,-	4	RW648
1-5	DA71-20145A	FIXER-ROLLER	61BU	4	RH029
2	DA90-04793A	ASSY ICE MAKER	NW2,AUTO ICE MAKER,-,-,-,-	1	RM001
2-1	DA61-03189A	CASE-ICE CUBE	AW-PJT,PP,-,-,-,COOL WHITE,-	1	RM012
2-2	DA67-01231A	SCOOP ICE	W2-PJT(05),PP(BJ-703T4),-,-,SC-02740R,-	1	RI247
2-3	DA63-05155A	TRAY-CASE ICE CUBE	AW2-CD,LDPE,NTR	1	
3	DA96-00480A	ASSY EVAP-FRE	NW2-PJT,-,-,-,-,115V/240W,-	1	RF011
4	DA60-90005A	RIVET-AVEX	AL,D3.2,L9.83,-,-	1	
5	DA61-02901A	FIXER-SENSOR EVAP	CORE-PJT,PP,-,-,NTR,-	1	RI157
6	DA61-04462A	PLATE-DRAIN FRE	NW2-PJT,GALVANUME,T0.3,-,516,-,-	1	RF026
7	DA47-00243C	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M, PW-5M1N	1	RI074
8	DA63-04296A	COVER LAMP-FRE	AW2,PC,-,-,-,-,Transparent,-	1	RF031
9	4713-001206	LAMP-INCANDESCENT	120V,340mA,40W,FROST,-,-,-	1	RI081
10	DA97-06703A	ASSY RAIL-SLIDE LOW L	NW2-PJT,-,-,-,-,21Cu.ft	1	RI171
10-1	DA61-04464A	HANGER-RAIL LOW L	NW2-PJT,SECC1,T1.6,COOL WHT,-,-,-	1	RD094
10-2	DA61-04512A	RAIL-SLIDE LOW L	NW2-PJT,STS304,-,-,431,-,21Cu.ft	1	RI184
10-3	DA66-00436A	GEAR-L	AW-PJT,POM,-,-,-,NTR,-,-,-	1	RI242
11	DA61-04507A	SUPPORT-RAIL LOW L	NW2-PJT,ABS,-,-,-,COOL WHT,21CU ft	1	
12	DA97-06702A	ASSY RAIL-SLIDE LOW R	NW2-PJT,-,-,-,-,21Cu.ft	1	RI173
12-1	DA61-04465A	HANGER-RAIL LOW R	NW2-PJT,SECC1,T1.6,COOL WHT,-,-,-	1	RD095
12-2	DA61-04513A	RAIL-SLIDE LOW R	NW2-PJT,STS304,-,-,431,-,21Cu.ft	1	RI185
12-3	DA66-00435A	GEAR-R	AW-PJT,POM,-,-,-,NTR,-,-,-	1	RI242
13	DA61-04506A	SUPPORT-RAIL LOW R	NW2-PJT,ABS,-,-,-,COOL WHT,21CU ft	1	
14	DA63-04447A	TRAY-DRAWER BOX	NW2-PJT,PP,-,-,-,COOL WHITE,21INCH	1	RI237
15	DA61-05425A	GUIDE-DRAWER BOX	NW2-FDR,TALC PP,W403.9,L256.6,COOL WHITE	1	
16	DA97-06657A	ASSY COVER-EVAP FRE	NW2-PJT,-,-,-,-,-,-,-	1	RF005
16-1	DA63-04444A	COVER-EVAP FRE	NW2-PJT,PP,-,-,-,-,COOL WHT,-	1	RF005
16-2	DA62-01942A	INSULATION-EVAP FRE	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI232
16-3	DA61-04461A	PLATE-INS EVAP FRE	NW2-PJT,GALVALUME,T0.3,-,-,-,-	1	RF092
16-4	DA63-01809A	COVER MOTOR-BLDC	BLDC-NEW,PP,NTR,-,-,-,-,BJ-730	1	RF083
16-5	DA31-00124A	FAN-AX100W4CC-T1	-,TD-PJT,ABS,-,-	1	RI085
16-6	DA61-03183A	CASE-MOTOR FRE	AW-PJT,BUBBLE PP,-,-,-,NTR,-	1	RF120
16-7	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,-,-,-,-,H20	1	RO137
16-8	DA31-00146H	MOTOR BLDC	-,2950,-,DC12V,150mA,-,-,2.1W,-,-,-,-,-,-	1	RI089
16-9	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	RO138

# EXPLODED VIEW & PARTS LIST

## 5-2) Refrigerator



# EXPLODED VIEW & PARTS LIST

## ■ Parts List of Refrigerator (RF217AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-06686A	ASSY SHELF-REF UPP	NW2,19cu.ft	1	RI041
1-1	DA64-02645A	TRIM SHELF-REF	NW2,HIPS,-,-,COOL WHITE,21cu.ft	1	RI079
1-2	DA64-02647A	GLASS-SHELF	NW2,GLASS,T4.0,-,-,-,-	1	RI037
1-3	DA61-04511A	SUPPORT-GUIDE RAIL FRONT	NW2,HIPS,-,-,COOL WHITE,-	1	
1-4	DA61-04510A	SUPPORT-GUIDE RAIL REAR	NW2,HIPS,-,-,COOL WHITE,-	1	
1-5	DA61-04505A	GUIDE-RAIL	NW2,HIPS,-,-,COOL WHITE,-	1	
1-6	DA63-00202A	GROMMET-RAIL	-,NY-6,-,-,-,-,-	2	RI088
2	DA97-06674A	ASSY TRAY-CHILLED ROOM	NW2,-,-,-,19cu.ft	1	RI018
2-1	DA63-04464A	TRAY CHIL ROOM	NW2,GPPS,-,-,-,-,-	1	RI018
2-2	DA63-04465A	COVER-TRAY CHIL ROOM	NW2,HIPS,-,-,-,-,COOL WHITE,-	1	
3	DA97-06675A	ASSY SHELF-TRIM REF MID	NW2,-	1	
3-1	DA64-02645A	TRIM SHELF-REF	NW2,HIPS,-,-,COOL WHITE,21cu.ft	1	RI079
3-2	DA64-02647A	GLASS-SHELF	NW2,GLASS,T4.0,-,-,-,-	1	RI037
4	DA97-00663D	ASSY COVER-VEG	NW2-FDR,TALC PP,W403.9,L256.6,COOL WHITE	1	RI997
4-1	DA64-00448B	TRIM-COVER VEG	W2-PJT(55),ABS,-,T2.5,L403,W717,cool white	1	RI091
4-2	DA67-01807H	SHELF-GLASS	W2-PJT(55), GLASS,T5,W708.5,L346,-,COVER-VEG	1	RF183
5	DA97-07058A	ASSY RAIL VEG-MID	NW2,-,-,-,21Cu.ft	1	RI030
5-1	DA61-00760B	RAIL-VEG, MID	W2-PJT(55),ABS,T2.5,-,COOL-WHITE,SC-02740R	1	
5-2	DA61-04875A	SUPPORT-RAIL VEG	NW2,PP(BJ-730),-,-,COOL WHITE,-	1	
6	DA97-00103N	ASSY RAIL-VEG, L	W2-PJT,ABS,L341.5,SC-02740R,cool white,-	1	RI028
6-1	DA61-60126E	RAIL-VEG	W2-PJT,ABS,T3.0,-,LEFT,COOL-WHITE,SC-02740R	1	RI028
6-2	DA63-40006A	GROMMET	RAIL,NY-6,-,-,-,-,-,RAIL	1	RW374
7	DA97-00103P	ASSY RAIL-VEG, R	W2-PJT,ABS,L341.5,SC-02740R,cool white,-	1	RI029
7-1	DA61-60127E	RAIL-VEG	W2-PJT,ABS,T3.0,-,RIGHT,COOL-WHITE,SC-02740R	1	RI028
7-2	DA63-40006A	GROMMET	RAIL,NY-6,-,-,-,-,-,RAIL	1	RW374
8	DA63-04549A	COVER LAMP-REF	NW2,PC,-,-,-,-,NTR,PT-1020	1	
9	4713-001206	LAMP-INCANDESCENT	120V,340mA,40W,FROST,-,-,-	1	RI081
10	DA97-06700A	ASSY CASE-VEG REF	NW2-PJT,-,-,-,-,-	2	RI999
10-1	DA61-00762A	CASE-VEG,REF	W2-PJT(55),HIPS,-,-,WHITE,HG-1760	1	RI999
10-2	DA63-04445A	COVER-VEG REF	NW2-PJT,SAN,-,-,-,-,NATURAL,-	1	RI010
10-3	DA64-00656A	KNOB-HUMIDITY	W2-PJT,ABS,-,-,-,W9540,-,BEST BYE	1	RW508
10-4	DA66-10104A	ROLLER-FRE	POM,-,-,D22,-,-,	4	RW648
10-5	DA71-20145A	FIXER-ROLLER	-,PA,-,-,	4	RH029
11	DA97-06656A	ASSY COVER-EVAP REF	NW2-PJT,-,-,-,-,-,TWIN COOLING	1	
11-1	6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	3	RS047
11-2	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	4	RS080
11-3	DA31-00124A	FAN-AX100W4CC-T1	-,TD-PJT,ABS,-,-	1	RI085
11-4	DA31-00146H	MOTOR BLDC	2950,-,DC12V,150mA,-,2.1W,-,-,-,-,-	1	RI089
11-5	DA32-10105X	SENSOR TEMP	PX-41C,QUEEN PJT,-10,5V,-,-,F-SENSOR,YELLOW	1	RQ684
11-6	DA61-03181A	CASE-MOTOR REF	AW-PJT,BUBBLE PP,-,-,-,NTR,-	1	RF121
11-7	DA61-03182A	GUIDE-INS EVAP REF	AW-PJT,ABS,-,-,-,NTR,-	1	RI210
11-8	DA61-04701A	PLATE-INS EVAP REF	NW2,SAZCC,T3.0,-,-,-,-	1	
11-9	DA61-03599A	PLATE-HOUSING REF	AW-PJT,GALVALUME,T0.3,-,-,-,-	1	RI307
11-10	DA61-20128A	SPRING ETC-FAN	-,STS304,PI7.8,-,OD1.0,-,-,-,-,FD	1	RW716
11-11	DA62-01383A	INSULATION-EVAP SUB	AW-PJT,FOAM-PS,-,-,-,-,-,-	1	RI232
11-12	DA62-01423A	INSULATION-EVAP DUCT	AW-PJT,FOAM-PS,T20,W44.5,L45,-,-,-,-	2	RI236
11-13	DA62-01941A	INSULATION-EVAP REF	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI231
11-14	DA62-01969A	INSULATION-EVAP REAR	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI233
11-15	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	RO138
11-16	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,-,-,-,-,H20	1	RO137
11-17	DA63-01809A	COVER MOTOR-BLDC	BLDC-NEW,PP,NTR,-,-,-,-,BJ-730	1	RF083
11-18	DA63-04439A	COVER-EVAP REF	NW2-PJT,PP,-,-,-,-,COOL WHT,-	1	RI024

## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Refrigerator (RF217AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
11-19	DA63-40167A	GROMMET-COVER CHIL	T3.0,SILICON,-,-,-,-,-,NTR	1	RI087
11-20	DA64-02065A	TRIM-COVER EVAP REF	AW-PJT,ABS,-,-,-,COOL WHITE,-	1	RI241
11-21	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP UL(MOTOR),C-FAN,350MM	1	
12	DA96-00461C	ASSY EVAP-REF	NW2-PJT,PIN,-,-,115V/240W,-,-,-,-	4	
12-1	6501-000123	CABLE TIE	DACT-140,-,W3.6,L146,NTR,NYLON66	1	RO101
12-2	DA32-00006S	SENSOR TEMP	PX-41C,502AT,AW-PJT,-40~110°...5V,-,-,R-DEF SENSOR,YEL,400MM	1	
12-3	DA47-00243C	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M,PW-5M1N,125/250V,10/5A,60°...40°...,,100MBY,-,-	1	
12-4	DA47-00244B	HEATER-METAL SHEATH	-,AW-PJT,-,120W,-,115V,110.2Ω,-,-,R-ROOM	1	
12-5	DA59-00357B	EVAP REF	-,,-,-,-,-,-,AW-PJT,-	1	RI016
12-6	DA60-90005A	RIVET-AVEX	AL,D3.2,L9.83,-,-	1	
12-7	DA61-03644A	PLATE-EVAP HEATER	AW-PJT,AL,T0.7,-,-,-,-	1	RF170
12-8	DA61-03683A	FIXER-SENSER	AW-PJT,ABS,-,NTR,-	1	RM017
12-9	DA61-04148A	PLATE-DRAIN REF	AW-PJT('08),GALVANUME,T0.3,-,-,-,-		RF026
13	DA61-05292A	GUIDE-FRENCH	NW2-FDR,PC-ABS,31.3,95.1,COOL WHITE,SC-02740R	1	



# EXPLODED VIEW & PARTS LIST

## ■ Parts List of Refrigerator (RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-06686A	ASSY SHELF-REF UPP	NW2,19cu.ft	1	RI041
1-1	DA64-02645A	TRIM SHELF-REF	NW2,HIPS,-,-,COOL WHITE,21cu.ft	1	RI079
1-2	DA64-02647A	GLASS-SHELF	NW2,GLASS,T4.0,-,-,-,-	1	RI037
1-3	DA61-04511A	SUPPORT-GUIDE RAIL FRONT	NW2,HIPS,-,-,COOL WHITE,-	1	
1-4	DA61-04510A	SUPPORT-GUIDE RAIL REAR	NW2,HIPS,-,-,COOL WHITE,-	1	
1-5	DA61-04505A	GUIDE-RAIL	NW2,HIPS,-,-,COOL WHITE,-	1	
1-6	DA63-00202A	GROMMET-RAIL	-,NY-6,-,-,-,-,-	2	RI088
2	DA97-06674A	ASSY TRAY-CHILLED ROOM	NW2,-,-,-,19cu.ft	1	RI018
2-1	DA63-04464A	TRAY CHIL ROOM	NW2,GPPS,-,-,-,-,-	1	RI018
2-2	DA63-04465A	COVER-TRAY CHIL ROOM	NW2,HIPS,-,-,-,-,COOL WHITE,-	1	
3	DA97-06675A	ASSY SHELF-TRIM REF MID	NW2,-	1	
3-1	DA64-02645A	TRIM SHELF-REF	NW2,HIPS,-,-,COOL WHITE,21cu.ft	1	RI079
3-2	DA64-02647A	GLASS-SHELF	NW2,GLASS,T4.0,-,-,-,-	1	RI037
4	DA97-00663D	ASSY COVER-VEG	NW2-FDR,TALC PP,W403.9,L256.6,COOL WHITE	1	RI997
4-1	DA64-00448B	TRIM-COVER VEG	W2-PJT(55),ABS,-,T2.5,L403,W717,cool white	1	RI091
4-2	DA67-01807H	SHELF-GLASS	W2-PJT(55), GLASS,T5,W708.5,L346,-,COVER-VEG	1	RF183
5	DA97-07058A	ASSY RAIL VEG-MID	NW2,-,-,-,21Cu.ft	1	RI030
5-1	DA61-00760B	RAIL-VEG, MID	W2-PJT(55),ABS,T2.5,-,COOL-WHITE,SC-02740R	1	
5-2	DA61-04875A	SUPPORT-RAIL VEG	NW2,PP(BJ-730),-,-,COOL WHITE,-	1	
6	DA97-00103N	ASSY RAIL-VEG, L	W2-PJT,ABS,L341.5,SC-02740R,cool white,-	1	RI028
6-1	DA61-60126E	RAIL-VEG	W2-PJT,ABS,T3.0,-,LEFT,COOL-WHITE,SC-02740R	1	RI028
6-2	DA63-40006A	GROMMET	RAIL,NY-6,-,-,-,-,-,RAIL	1	RW374
7	DA97-00103P	ASSY RAIL-VEG, R	W2-PJT,ABS,L341.5,SC-02740R,cool white,-	1	RI029
7-1	DA61-60127E	RAIL-VEG	W2-PJT,ABS,T3.0,-,RIGHT,COOL-WHITE,SC-02740R	1	RI028
7-2	DA63-40006A	GROMMET	RAIL,NY-6,-,-,-,-,-,RAIL	1	RW374
8	DA63-04549A	COVER LAMP-REF	NW2,PC,-,-,-,-,NTR,PT-1020	1	
9	4713-001206	LAMP-INCANDESCENT	120V,340mA,40W,FROST,-,-,-	1	RI081
10	DA97-06700A	ASSY CASE-VEG REF	NW2-PJT,-,-,-,-,-	2	RI999
10-1	DA61-00762A	CASE-VEG,REF	W2-PJT(55),HIPS,-,-,WHITE,HG-1760	1	RI999
10-2	DA63-04445A	COVER-VEG REF	NW2-PJT,SAN,-,-,-,-,NATURAL,-	1	RI010
10-3	DA64-00656A	KNOB-HUMIDITY	W2-PJT,ABS,-,-,-,W9540,-,BEST BYE	1	RW508
10-4	DA66-10104A	ROLLER-FRE	POM,-,-,D22,-,-,	4	RW648
10-5	DA71-20145A	FIXER-ROLLER	-,PA,-,-,-	4	RH029
11	DA97-06656A	ASSY COVER-EVAP REF	NW2-PJT,-,-,-,-,-,TWIN COOLING	1	
11-1	6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	3	RS047
11-2	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	4	RS080
11-3	DA31-00124A	FAN-AX100W4CC-T1	-,TD-PJT,ABS,-,-	1	RI085
11-4	DA31-00146H	MOTOR BLDC	2950,-,DC12V,150mA,-,2.1W,-,-,-,-,-	1	RI089
11-5	DA32-10105X	SENSOR TEMP	PX-41C,QUEEN PJT,-10,5V,-,-,F-SENSOR,YELLOW	1	RQ684
11-6	DA61-03181A	CASE-MOTOR REF	AW-PJT,BUBBLE PP,-,-,-,NTR,-	1	RF121
11-7	DA61-03182A	GUIDE-INS EVAP REF	AW-PJT,ABS,-,-,-,NTR,-	1	RI210
11-8	DA61-04701A	PLATE-INS EVAP REF	NW2,SAZCC,T3.0,-,-,-,-	1	
11-9	DA61-03599A	PLATE-HOUSING REF	AW-PJT,GALVALUME,T0.3,-,-,-,-	1	RI307
11-10	DA61-20128A	SPRING ETC-FAN	-,STS304,PI7.8,-,OD1.0,-,-,-,-,FD	1	RW716
11-11	DA62-01383A	INSULATION-EVAP SUB	AW-PJT,FOAM-PS,-,-,-,-,-,-	1	RI232
11-12	DA62-01423A	INSULATION-EVAP DUCT	AW-PJT,FOAM-PS,T20,W44.5,L45,-,-,-,-	2	RI236
11-13	DA62-01941A	INSULATION-EVAP REF	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI231
11-14	DA62-01969A	INSULATION-EVAP REAR	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI233
11-15	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	RO138
11-16	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,-,-,-,-,H20	1	RO137
11-17	DA63-01809A	COVER MOTOR-BLDC	BLDC-NEW,PP,NTR,-,-,-,-,BJ-730	1	RF083
11-18	DA63-04439A	COVER-EVAP REF	NW2-PJT,PP,-,-,-,-,COOL WHT,-	1	RI024

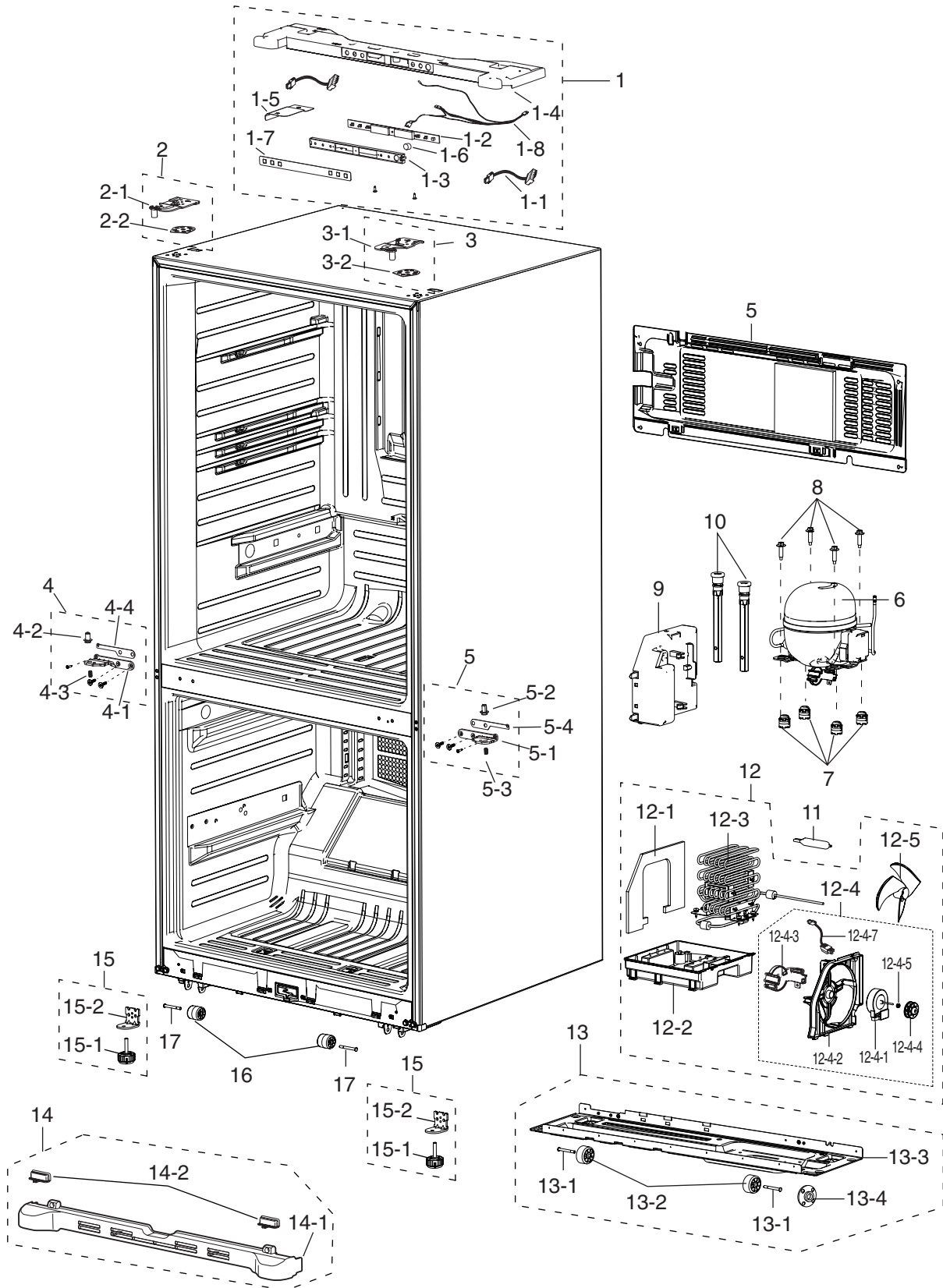
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Refrigerator (RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
11-19	DA63-40167A	GROMMET-COVER CHIL	T3.0,SILICON,-,-,-,-,-,NTR	1	RI087
11-20	DA64-02065A	TRIM-COVER EVAP REF	AW-PJT,ABS,-,-,-,COOL WHITE,-	1	RI241
11-21	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP UL(MOTOR),C-FAN,350MM	1	
12	DA96-00461C	ASSY EVAP-REF	NW2-PJT,PIN,-,-,115V/240W,-,-,-	4	
12-1	6501-000123	CABLE TIE	DACT-140,-,W3.6,L146,NTR,NYLON66	1	RO101
12-2	DA32-00006S	SENSOR TEMP	PX-41C,502AT,AW-PJT,-40~110°...5V,-,R-DEF SENSOR,YEL,400MM	1	
12-3	DA47-00243C	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M,PW-5M1N,125/250V,10/5A,60°...40°...100MBY,-	1	
12-4	DA47-00244B	HEATER-METAL SHEATH	-AW-PJT,-,120W,-,115V,110.2Ω,-,-,R-ROOM	1	
12-5	DA59-00357B	EVAP REF	-,-,-,-,-,AW-PJT,-	1	RI016
12-6	DA60-90005A	RIVET-AVEX	AL,D3.2,L9.83,-,-	1	
12-7	DA61-03644A	PLATE-EVAP HEATER	AW-PJT,AL,T0.7,-,-,-,-	1	RF170
12-8	DA61-03683A	FIXER-SENSER	AW-PJT,ABS,-,NTR,-	1	RM017
12-9	DA61-04148A	PLATE-DRAIN REF	AW-PJT('08),GALVANUME,T0.3,-,-,-,-		RF026
13	DA61-05292A	GUIDE-FRENCH	NW2-FDR,PC-ABS,31.3,95.1,COOL WHITE,SC-02740R	1	

# EXPLODED VIEW & PARTS LIST

## 5-3) Cabinet



## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Cabinet (RF217AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-07654A	ASSY-TOP TABLE	NW2-FDR,I BLACK(SC-00477R),BLUE LED(Fahrenheit)	1	
1-1	DA34-00043C	SWITCH REED-ASS'Y	200VDC,1.5A,-	2	RO045
1-2	DA41-00635A	PBA PANEL	NW2-FDR-PJT,DOOR REF,FR-4,300*19.5*1.6T,BLUE LED,12V,5V,-,N,-,-	1	RO045
1-3	DA61-05316A	CASE-PBA DISPLAY	NW2-FDR,HIPS,L303.2,NTR	1	RO150
1-4	DA64-02960A	TOP TABLE	NW2-FDR,HIPS,I-BLACK (SC-00477R),T2.0,L811	1	RO042
1-5	DA61-04052A	PLATE-TOP TABLE	AW-PJT,SBHG1,T0.3,67.8,115,-,AW-BASIC	1	RO128
1-6	DA64-02071A	BUTTON-CONTROL	AW-PJT,GPPS,-,-,NTR,-	1	RO067
1-7	DA64-02981A	INLAY-DISPLAY	NW2-FDR,PC,T0.25,I BLACK(SC-00477R),Fahrenheit	1	
1-8	DA96-00571A	ASSY W/HARNESS-TOP TABLE	NW2-PJT,FDR	1	RQ747
2	DA97-06715B	ASSY HINGE UPP-L	NW2,T3.0,-,-,BLACK,-,-	1	RO123
2-1	DA61-04475B	HINGE-UPP L	NW2-PJT,SHP1,T3.0,-,-,-,-	1	RO067
2-2	DA63-02527A	SHIM HINGE-UPP	NW2-PJT(05),HIPS,T1.0,-,-,-,-	1	
3	DA97-06716B	ASSY HINGE UPP-R	NW2,T3.0,-,-,BLACK,-,-	1	
3-1	DA61-04476B	HINGE-UPP R	NW2-PJT,SHP1,T3.0,-,-,BLACK,-,-	1	RH002
3-2	DA63-02527A	SHIM HINGE-UPP	NW2-PJT(05),HIPS,T1.0,-,-,-,-	1	RH015
4	DA97-07514A	ASSY HINGE MID-L	AW2 CD-PJT,T4.5,-,-,Ni-Cr Plated,-,-	1	RW074
4-1	DA61-04916D	HINGE-MID L	AW2,SHP1,T4.5,Ni-Cr+Cu Plating,Heat Treatment,SNC2	1	RH004
4-2	DA66-00444A	SHAFT HINGE-MID R	NEXT-PJT,AW,SM10C,-,OD11.2,-,-,-	1	RZ110
4-3	6011-001442	BOLT-SOCKET	M8,L13.4,ZPC(BLK),SCM435,-	1	RH014
4-4	DA63-04694A	SHIM HINGE-MID	AW2,RD-PVC,T1.0,-,-,NTR,-	1	RH003
5	DA97-07515A	ASSY HINGE MID-R	AW2 CD-PJT,T4.5,-,-,Ni-Cr Plated,-,-	1	RH030
5-1	DA61-04917D	HINGE-MID R	AW2,SHP1,T4.5,Ni-Cr+Cu Plating,Heat Treatment,SNC2	1	RH003
5-2	DA66-00444A	SHAFT HINGE-MID R	NEXT-PJT,AW,SM10C,-,OD11.2,-,-,-	1	RW005
5-3	6011-001442	BOLT-SOCKET	M8,L13.4,ZPC(BLK),SCM435,-	1	RO132
5-4	DA63-04694A	SHIM HINGE-MID	AW2,RD-PVC,T1.0,-,-,NTR,-	1	RI089
6	DA63-02905A	GROMMET HINGE-MID,R	NEXT,POM,T2.0,-,-,-,WHITE,-	1	RF033
7	DA97-07835A	ASSY COVER COMP	NW2-FDR,T0.4,W263.6,L716.0	4	RH039
8	DA60-20008A	BOLT-HEX	S25C,M6,-,-,L42.6,WHITE,-,ZPC	4	RO138
9	DA63-01866A	COVER RELAY	NORYL,T2.0,-,-,-,SSEC,BLACK,HOOK	1	RI087
10	DA97-04049A	ASSY CAP-DRAIN	EPEL,ASSY,-,-,L224.5,-,SOFT-PVC	2	RI133
11	DA62-01514A	DRYER	C1220T,OD18.70,L114,-,-,-	1	RI085
12	DA97-07655A	ASSY TRAY-DRAIN WATER	NW2-FDR,PP SCRAP,SPIRAL COND.	1	
12-1	DA62-00954A	SEAL-SUB COND	W2-05,FOAM-PE,-,T7,-,-,-	1	RH019
12-2	DA63-04466A	TRAY DRAIN-WATER	NW2,PP,-,-,-,NTR,-	1	RH011
12-3	DA97-07653A	ASSY PIPE-CONDENSER	NW2-FDR	1	RO002
12-4	DA97-03145L	ASSY SUPPORT-CIRCUIT MOTOR	AW2-PJT,-,-,-,1550RPM,2.7W	1	
12-4-1	DA31-00146B	MOTOR BLDC	DRCP5030LA,1560,-,DC12V,230mA,-,-,2.7W,ATOP	1	RO003
12-4-2	DA61-02349B	SUPPORT-CIRCUIT MOTOR	NEXT,ABS,-,-,-,NTR,-	1	RO003
12-4-3	DA61-02355B	BRACKET-CIRCUIT MOTOR	ABS,NEXT,-,-,-,NTR,-	1	
12-4-4	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	
12-4-5	DA63-40167A	GROMMET-COVER CHIL	SILICON,T3.0,-,L16,-,-,BLACK,-	1	RO001
12-4-6	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP UL(MOTOR),C-FAN,350MM	1	RO158
12-5	DA31-00010D	FAN-ASS'Y	ET,ZIPEL,ASSY,-,UNIT,150	1	RH009
13	DA97-06815B	ASSY CHASSIS COMP	NW2/FDR,CASTER(TPE)	1	RH012
13-1	DA66-00649A	SHAFT-CASTER	AW-PJT,MSWR10,L46,OD8.2,-,-,ZPC2 / 2	2	
13-2	DA61-04703A	CASTER-REAR	AW-PJT,PP,-,35,NTR,35,PP+TPE / 2	2	
13-3	DA64-02694A	CHASSIS COMP	NW2,SBHG1,T1.2,-,-,-,-	1	
13-4	DA71-50240A	BRACKET-CABI	ALL,SBHG1,T1.6,-,-,-,-	1	
14	DA97-07836B	ASSY COVER LEG FRONT	NW2-FDR,I-BLACK,DRAWER	1	
14-1	DA63-05106B	COVER LEG-FRONT	NW2,PP,I-BLACK(SC-00477R),NEW09	1	
14-2	DA67-02071B	CAP LEG FRONT	NW2,PP,-,-,-,I-BLACK,SC-00477R / 2	2	

## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Cabinet (RF217AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
15	DA97-06688B	ASSY SUPPORT-FOOT FRONT	NW2-FDR,FOOT FRONT(DA61-04977A) / 2	2	
15-1	DA61-04977A	FOOT-FRONT	AW2-PJT,PP+MSWR10,-,BLACK,-,- / 2	1	
15-2	DA61-04490A	SUPPORT-FOOT FRONT	NW2,SHP1,T4.0,-,-,- / 2	1	
15-3	DA71-50240B	BRACKET-CABI	T3-PJT,SBHG1,T1.6,-,-,-		
16	DA61-04702A	CASTER-FRONT	AW-PJT,PP,-,35,NTR,35,PP+TPE	2	
17	DA61-01920A	CASTER-RIVET	(ZPC2),MSWR10,OD8.0,L54,-,-	2	

## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Cabinet (RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA97-07654A	ASSY-TOP TABLE	NW2-FDR,I BLACK(SC-00477R),BLUE LED(Fahrenheit)	1	
1-1	DA34-00043C	SWITCH REED-ASS'Y	200VDC,1.5A,-	2	RO045
1-2	DA41-00635A	PBA PANEL	NW2 FDR-PJT,DOOR REF,FR-4,300*19.5*1.6T,BLUE LED,12V,5V,-,N,-,-	1	RO045
1-3	DA61-05316A	CASE-PBA DISPLAY	NW2-FDR,HIPS,L303.2,NTR	1	RO150
1-4	DA64-02960A	TOP TABLE	NW2-FDR,HIPS,I-BLACK (SC-00477R),T2.0,L811	1	RO042
1-5	DA61-04052A	PLATE-TOP TABLE	AW-PJT,SBHG1,T0.3,67.8,115,-,AW-BASIC	1	RO128
1-6	DA64-02071A	BUTTON-CONTROL	AW-PJT,GPPS,-,-,NTR,-	1	RO067
1-7	DA64-02981A	INLAY-DISPLAY	NW2-FDR,PC,T0.25,I BLACK(SC-00477R),Fahrenheit	1	
1-8	DA96-00571A	ASSY W/HARNESS-TOP TABLE	NW2-PJT,FDR	1	RQ747
2	DA97-06715B	ASSY HINGE UPP-L	NW2,T3.0,-,-,BLACK,-,-	1	RO123
2-1	DA61-04475B	HINGE-UPP L	NW2-PJT,SHP1,T3.0,-,-,-,-	1	RO067
2-2	DA63-02527A	SHIM HINGE-UPP	NW2-PJT(05),HIPS,T1.0,-,-,-,-	1	
3	DA97-06716B	ASSY HINGE UPP-R	NW2,T3.0,-,-,BLACK,-,-	1	
3-1	DA61-04476B	HINGE-UPP R	NW2-PJT,SHP1,T3.0,-,-,BLACK,-,-	1	RH002
3-2	DA63-02527A	SHIM HINGE-UPP	NW2-PJT(05),HIPS,T1.0,-,-,-,-	1	RH015
4	DA97-07514A	ASSY HINGE MID-L	AW2 CD-PJT,T4.5,-,-,Ni-Cr Plated,-,-	1	RW074
4-1	DA61-04916D	HINGE-MID L	AW2,SHP1,T4.5,Ni-Cr+Cu Plating,Heat Treatment,SNC2	1	RH004
4-2	DA66-00444A	SHAFT HINGE-MID R	NEXT-PJT,AW,SM10C,-,OD11.2,-,-,-	1	RZ110
4-3	6011-001442	BOLT-SOCKET	M8,L13.4,ZPC(BLK),SCM435,-	1	RH014
4-4	DA63-04694A	SHIM HINGE-MID	AW2,RD-PVC,T1.0,-,-,NTR,-	1	RH003
5	DA97-07515A	ASSY HINGE MID-R	AW2 CD-PJT,T4.5,-,-,Ni-Cr Plated,-,-	1	RH030
5-1	DA61-04917D	HINGE-MID R	AW2,SHP1,T4.5,Ni-Cr+Cu Plating,Heat Treatment,SNC2	1	RH003
5-2	DA66-00444A	SHAFT HINGE-MID R	NEXT-PJT,AW,SM10C,-,OD11.2,-,-,-	1	RW005
5-3	6011-001442	BOLT-SOCKET	M8,L13.4,ZPC(BLK),SCM435,-	1	RO132
5-4	DA63-04694A	SHIM HINGE-MID	AW2,RD-PVC,T1.0,-,-,NTR,-	1	RI089
6	DA63-02905A	GROMMET HINGE-MID,R	NEXT,POM,T2.0,-,-,-,WHITE,-	1	RF033
7	DA97-07835A	ASSY COVER COMP	NW2-FDR,T0.4,W263.6,L716.0	4	RH039
8	DA60-20008A	BOLT-HEX	S25C,M6,-,-,L42.6,WHITE,-,ZPC	4	RO138
9	DA63-01866A	COVER RELAY	NORYL,T2.0,-,-,-,SSEC,BLACK,HOOK	1	RI087
10	DA97-04049A	ASSY CAP-DRAIN	EPEL,ASSY,-,-,L224.5,-,SOFT-PVC	2	RI133
11	DA62-01514A	DRYER	C1220T,OD18.70,L114,-,-,-	1	RI085
12	DA97-07655A	ASSY TRAY-DRAIN WATER	NW2-FDR,PP SCRAP,SPIRAL COND.	1	
12-1	DA62-00954A	SEAL-SUB COND	W2-05,FOAM-PE,-,T7,-,-,-	1	RH019
12-2	DA63-04466A	TRAY DRAIN-WATER	NW2,PP,-,-,-,NTR,-	1	RH011
12-3	DA97-07653A	ASSY PIPE-CONDENSER	NW2-FDR	1	RO002
12-4	DA97-03145L	ASSY SUPPORT-CIRCUIT MOTOR	AW2-PJT,-,-,-,1550RPM,2.7W	1	
12-4-1	DA31-00146B	MOTOR BLDC	DRCP5030LA,1560,-,DC12V,230mA,-,-,2.7W,ATOP	1	RO003
12-4-2	DA61-02349B	SUPPORT-CIRCUIT MOTOR	NEXT,ABS,-,-,-,NTR,-	1	RO003
12-4-3	DA61-02355B	BRACKET-CIRCUIT MOTOR	ABS,NEXT,-,-,-,NTR,-	1	
12-4-4	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	
12-4-5	DA63-40167A	GROMMET-COVER CHIL	SILICON,T3.0,-,L16,-,-,BLACK,-	1	RO001
12-4-6	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP UL(MOTOR),C-FAN,350MM	1	RO158
12-5	DA31-00010D	FAN-ASS'Y	ET,ZIPEL,ASSY,-,UNIT,150	1	RH009
13	DA97-06815B	ASSY CHASSIS COMP	NW2/FDR,CASTER(TPE)	1	RH012
13-1	DA66-00649A	SHAFT-CASTER	AW-PJT,MSWR10,L46,OD8.2,-,-,ZPC2 / 2	2	
13-2	DA61-04703A	CASTER-REAR	AW-PJT,PP,-,35,NTR,35,PP+TPE / 2	2	
13-3	DA64-02694A	CHASSIS COMP	NW2,SBHG1,T1.2,-,-,-,-	1	
13-4	DA71-50240A	BRACKET-CABI	ALL,SBHG1,T1.6,-,-,-,-	1	
14	DA97-07836B	ASSY COVER LEG FRONT	NW2-FDR,I-BLACK,DRAWER	1	
14-1	DA63-05106B	COVER LEG-FRONT	NW2,PP,I-BLACK(SC-00477R),NEW09	1	
14-2	DA67-02071B	CAP LEG FRONT	NW2,PP,-,-,-,I-BLACK,SC-00477R / 2	2	

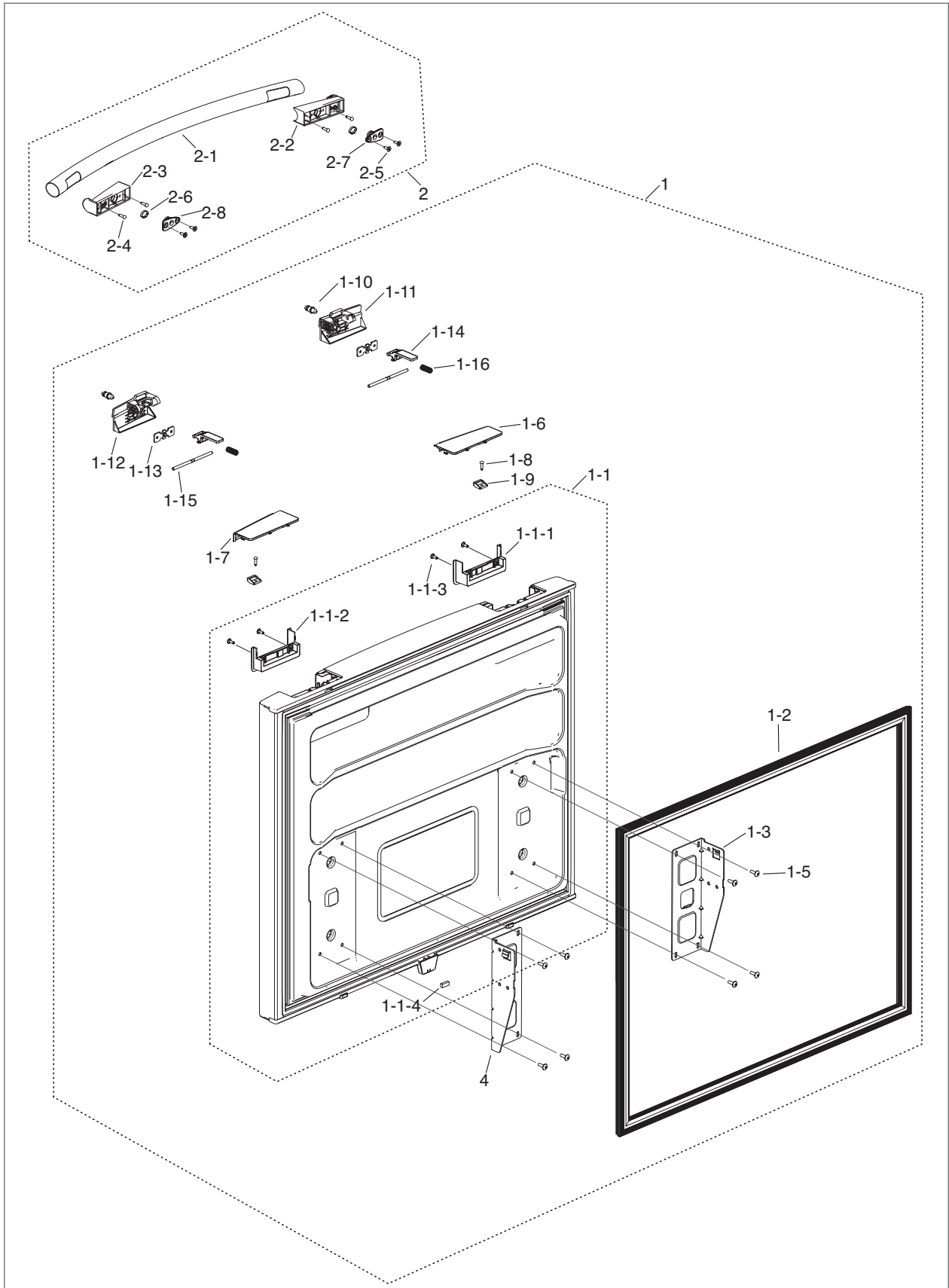
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Cabinet (RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
15	DA97-06688B	ASSY SUPPORT-FOOT FRONT	NW2-FDR,FOOT FRONT(DA61-04977A) / 2	2	
15-1	DA61-04977A	FOOT-FRONT	AW2-PJT,PP+MSWR10,-,BLACK,-,- / 2	1	
15-2	DA61-04490A	SUPPORT-FOOT FRONT	NW2,SHP1,T4.0,-,-,- / 2	1	
15-3	DA71-50240B	BRACKET-CABI	T3-PJT,SBHG1,T1.6,-,-,-		
16	DA61-04702A	CASTER-FRONT	AW-PJT,PP,-,35,NTR,35,PP+TPE	2	
17	DA61-01920A	CASTER-RIVET	(ZPC2),MSWR10,OD8.0,L54,-,-,-	2	

# EXPLODED VIEW & PARTS LIST

## 5-4) Disassembly of Freezer Door





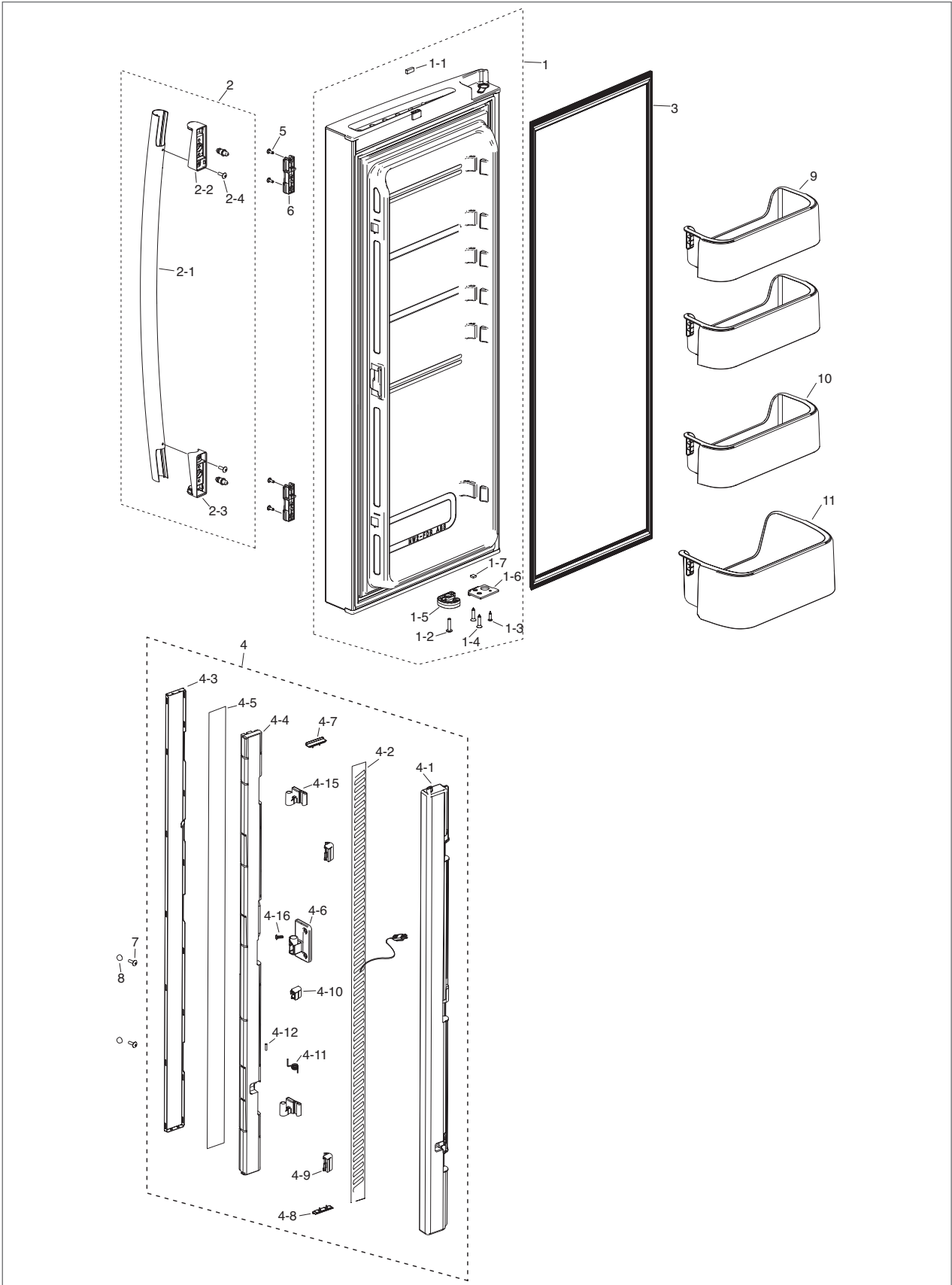
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Freezer Door (RF217AB, RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA90-05229A	ASSY DOOR FRE(DRAWER)	SECC1,EMPIRE-BLACK,AL BAR,DRAWER,CLEAR COATING-PCM,FDR	1	
1-1	DA91-02887A	ASSY DOOR FOAM FRE(DRAWER)	NW2-FDR,EMPIRE BLACK,PCM,DRAWER-TYPE	1	
1-1-1	DA67-02332A	CAP DOOR FRE SUBL	NW2-FDR,ABS,i-BLACK,EASY-HANDLE	1	
1-1-2	DA67-02331A	CAP DOOR FRE SUBR	NW2-FDR,ABS,i-BLACK,EASY-HANDLE	1	
1-1-3	6002-001122	SCREW TAPPING	FH,+,1,M4,L14,ZPC(WHT),SWRCH18A	4	
1-1-4	DA61-03769A	MAGNET	HERMES,-,5x7x18,-,1200Gauss	1	
1-2	DA97-07722A	ASSY-GASKET DOOR FRE	NW2-FDR,BLACK,-,-	1	
1-3	DA61-03153B	HANGER-RAIL FRONT L	AW-PJT,SECC1,T2.0,COOL-WHITE,-,-,RESTRICKING	1	
1-4	DA61-03155B	HANGER-RAIL FRONT R	AW-PJT,SECC1,T2.0,COOL-WHITE,-,-,RESTRICKING	1	
1-5	6002-000613	SCREW-TAPPING	TH,+,-,2,M5,L16,ZPC(WHT),SWRCH18A,-	8	
1-6	DA63-05034A	COVER-HANDLE FRE L	NW2-FDR,ABS,i-BLACK,EASY-HANDLE	1	
1-7	DA63-05033A	COVER-HANDLE FRE R	NW2-FDR,ABS,i-BLACK,EASY-HANDLE	1	
1-8	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	2	
1-9	DA61-04471A	FIXER SHAFT-HANDLE	NW2,POM,-,NTR,-	2	
1-10	DA61-05327A	FIXER HANDLE	NW2-FDR,SWCH10A	2	
1-11	DA67-02343A	CAP HANDLE FRE SUBL	NW2-FDR,PC-ABS,-,100,I-BLACK(SC-00477R),-	1	
1-12	DA67-02344A	CAP HANDLE FRE SUBR	NW2-FDR,PC-ABS,-,100,I-BLACK(SC-00477R),-	1	
1-13	DA61-05215A	REINF CAP HANDLE FRE	AW2-PJT,SGHC,T1.6,-,53,-,-	2	
1-14	DA61-04474B	SLIDER-HANDLE FRE	NW2,POM,-,-,I-BLACK,-	2	
1-15	DA66-00682A	SHAFT-CAP HANDLE	NW2-FDR,MSWR10,L105,OD5.0	2	
1-16	DA61-04335B	SPRING ETC-EASY HANDLE	08 AW1,2-PJT,HSWR,1.0,8,10,-,9,-,-,-,-	2	
2	DA97-07683A	ASSY HANDLE-BAR FRE	NW2-FDR,-,-,804.6,-,MATURE BLACK,-	1	
2-1	DA64-02957A	HANDLE BAR FRE	NW2-FDR,AL,663.8,MATURE BLACK (SC-03106T)	1	
2-2	DA67-02346A	CAP HANDLE FRE L	NW2-FDR,ABS,100,I-BLACK (SC-00477R)	1	
2-3	DA67-02347A	CAP HANDLE FRE R	NW2-FDR,ABS,100,I-BLACK (SC-00477R)	1	
2-4	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	4	
2-5	6002-001122	SCREW-TAPPING	FH,+,1,M4,L14,ZPC(WHT),SWRCH18A	4	
2-6	DA61-03636A	STOPPER HANDLE	CULLINAN,SK5,-,-,-,-	2	
2-7	DA61-05232A	BRACKET HANDLE UP	AW2-PJT,POM,-,-,NTR,-	1	
2-8	DA61-05233A	BRACKET HANDLE LOW	AW2-PJT,POM,-,-,NTR,-	1	

# EXPLODED VIEW & PARTS LIST

## 5-5) Disassembly of Refrigerator Door Left



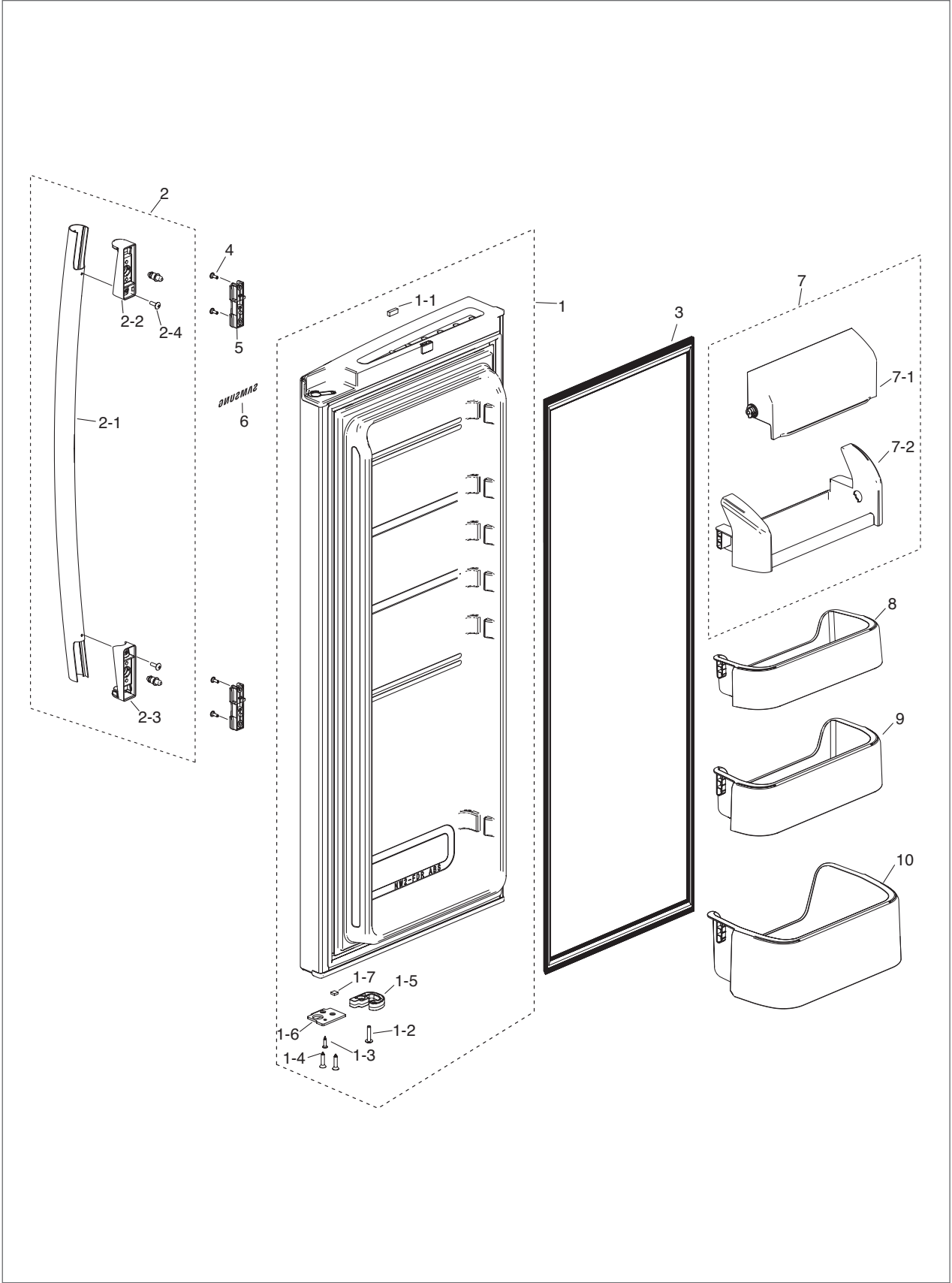
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Refrigerator Door-Left (RF217AB, RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA91-02889A	ASSY DOOR FOAM REF L(NON-DISPENSER)	NW2-FDR, BLACK, -, -, -, BASIC	1	
1-1	DA61-03769A	MAGNET	HERMES, -, 5x7x18, -, -, 1200Gauss	1	
1-2	6001-001377	SCREW-MACHINE	TH, +, -, M5, L25, ZPC(WHT), SWRCH18A, FP, -	1	
1-3	6002-001120	SCREW-TAPPING	FH, +, 1, M4, L18, ZPC(WHT), SWRCH18A	1	
1-4	6009-001475	SCREW-SPECIAL	FH, +, -, M5, L25(15.5), PASS, STS304, 1, -	2	
1-5	DA61-02383A	SUPPORT-DOOR CLOSE	NEXT, POM, -, -, -, -	1	
1-6	DA61-03211A	STOPPER-DOOR L	AW-PJT, SHP1, T2.9, -, -, -, -	1	
1-7	DA63-40294A	GROMMET-STOPPER	T3XW8XL8, NR, -, -, -, -, -, BLK	1	
2	DA97-07896A	ASSY HANDLE-BAR REF	NW2-FDR, -, -, -, -, MATURE BLACK, -	2	
2-1	DA64-03069A	HANDLE BAR REF	NW2-FDR, AL, T1.2, -, 777, -, MATURE BLACK, COATING	1	
2-2	DA67-02391A	CAP HANDLE REF UPP	NW2-FDR, ABS, I BLACK	1	
2-3	DA67-02392A	CAP HANDLE REF LOW	NW2-FDR, ABS, I BLACK	1	
2-4	6002-000215	SCREW-TAPPING	TH, +, -, 1, M4.0, L16, ZPC(WHT), SWRCH18A, -	2	
3	DA97-07668A	ASSY-GASKET DOOR REF	NW2-FDR, BLACK, -, -	1	
4	DA97-07661A	ASSY-FRENCH	NW2-FDR, 6W, BLACK, -	1	
4-1	DA61-05315A	CASE-FRENCH	NW2-FDR, ABS, 888.9, COOL WHITE (SC-02740R)	1	
4-2	DA47-00245E	HEATER CORD-FRENCH	NW2-PJT, P-CORD, 6W, 120V, 2400, FRENCH	1	
4-3	DA61-05291A	PLATE-FRENCH	NW2-FDR, SECC1, T0.8, 41.1, 879.3, ALL BLACK	1	
4-4	DA62-02212A	INSULATION-FRENCH	NW2-FDR, FOAM-PS, 883.0	1	
4-5	DA62-02294A	SEAL-CUTT FRENCH	NW2-FDR, SPONGE+AL, -, T3, W35, L88°¶	1	
4-6	DA63-03454B	COVER-HEATER FRENCH	AW-PJT, PC(HF-1023IM), -, -, -, -, COOL-WHITE(SC-02740R, -	1	
4-7	DA63-03508A	GASKET-FRENCH	AW-PJT, SF-PVC, -, -, -, BLACK, -, -	1	
4-8	DA63-05158A	GASKET-FRENCH	NW2-FDR, SILICON, 0.8, BLACK	1	
4-9	DA67-01650A	CAP-CASE FRENCH	AW-PJT, ABS, -, -, -, -	2	
4-10	DA67-01701A	CAP-CASE FRENCH MID	AW-PJT, ABS, -, -, -, -	1	
4-11	DA81-01345A	SPRING-ETC FRENCH	STS304, PI1.4, -, -, -, -	1	
4-12	DA81-01346A	PIN-FRENCH SPRING	RD-PVC, WHITE, -, -, -, -	1	
4-13	DA67-02306A	CAP GUIDE FRENCH UPP	AW2 CD, POM, -, -, -, COOL WHITE, -	1	
4-14	6002-000630	SCREW-TAPPING	PH, +, -, 2S, M3, L8, ZPC(WHT), SWRCH18A, -	1	
4-15	DA61-03230B	HINGE-FRENCH	AW-PJT, PC(HF-1023IM), -, -, -, COOL-WHITE(SC-02740R, -, -	2	
4-16	6002-000213	SCREW-TAPPING	TH, +, -, 1, M4, L12, ZPC(WHT), SWRCH18A, -	1	
5	6002-000468	SCREW-TAPPING	PH, +, -, 2S, M5.0, L18, ZPC(WHT), SWRCH18A, -	4	
6	DA61-02984A	FIXER HANDLE	A-TOP 06, POM, -, NTR, -	2	
7	6002-000213	SCREW-TAPPING	TH, +, -, 1, M4, L12, ZPC(WHT), SWRCH18A, -	2	
8	DA67-30218R	CAP-SCREW	-, PP, -, -, -, SC-97527R, SNOW WHITE	2	
9	DA63-05131A	GUARD REF-UPP	NW2-FDR, PP, COOL WHITE, SC-02740R	2	
10	DA63-05035A	GUARD REF-MID	NW2-FDR, PP, W302.5, L116.7, COOL WHITE(SC-02740R)	1	
11	DA63-05036A	GUARD REF-LOW	NW2-FDR, PP, W304.6, L179.3, COOL WHITE(SC-02740R)	1	

**EXPLODED VIEW & PARTS LIST**

**5-6) Disassembly of Refrigerator Door Right**



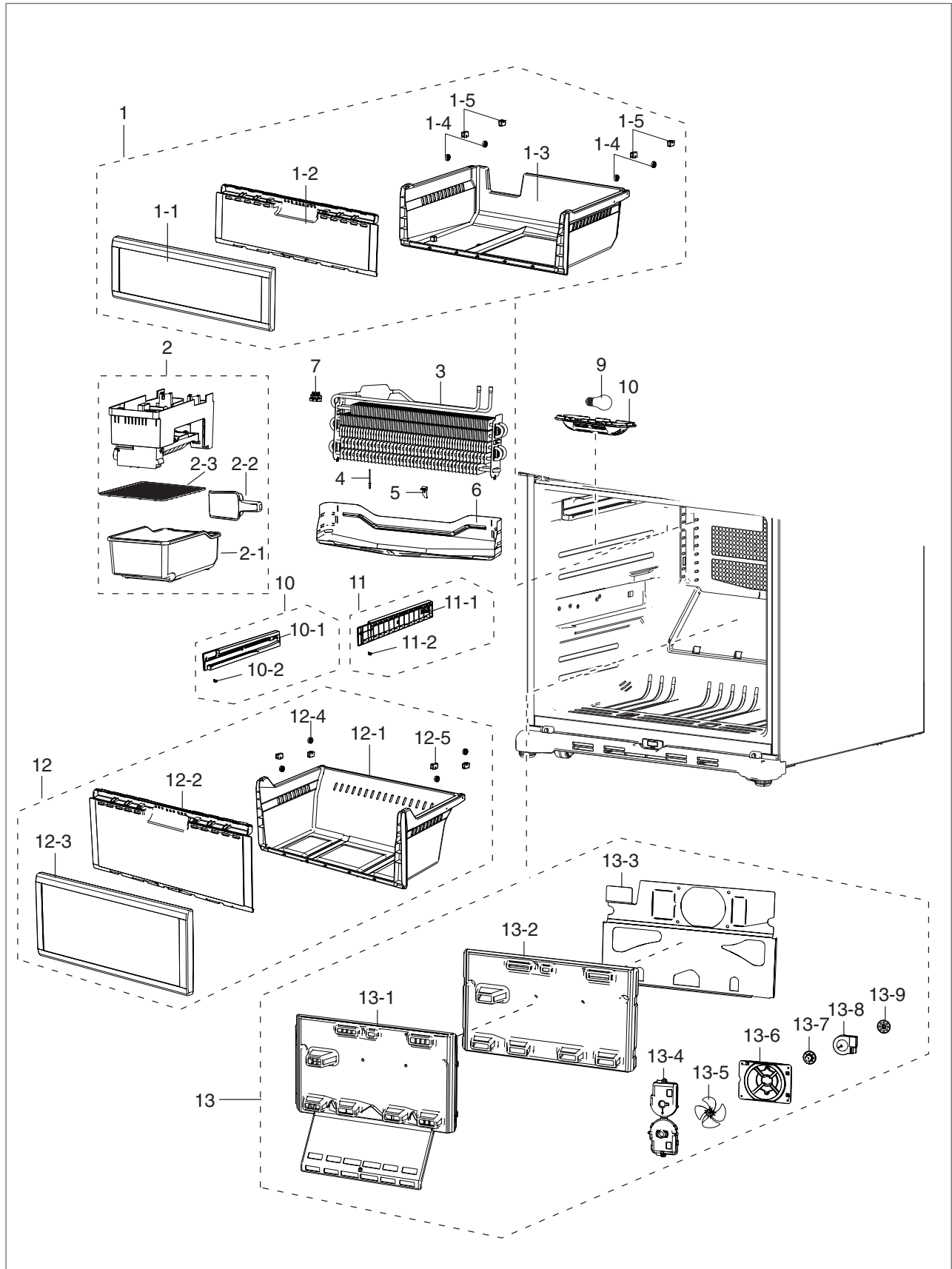
## EXPLODED VIEW & PARTS LIST

### ■ Part List of Refrigerator Door-Right (RF217AB, RF197AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA91-02888A	ASSY DOOR FOAM REF R		1	
1-1	DA61-03769A	MAGNET	HERMES,-,5x7x18,-,-,1200Gauss	1	
1-2	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWRCH18A,FP,-	1	
1-3	6002-001120	SCREW-TAPPING	FH,+,-,1,M4,L18,ZPC(WHT),SWRCH18A	1	
1-4	6009-001475	SCREW-SPECIAL	FH,+,-,M5,L25(15.5),PASS,STS304,1,-	2	
1-5	DA61-02383E	SUPPORT-DOOR CLOSE	AW-PJT,POM,-,-,-,CREAMY STS,-	1	
1-6	DA61-03212A	STOPPER-DOOR L	AW-PJT,SHP1,T2.9,-,-,-,-	1	
1-7	DA63-40294A	GROMMET-STOPPER	T3XW8XL8,NR,-,-,-,-,-,BLK	1	
2	DA97-07896A	ASSY HANDLE-BAR REF	NW2-FDR,-,-,-,-,-,MATURE BLACK,-	2	
2-1	DA64-03069A	HANDLE BAR REF	NW2-FDR,AL,T1.2,-,777,-,MATURE BLACK,COATING	1	
2-2	DA67-02391A	CAP HANDLE REF UPP	NW2-FDR,ABS,I BLACK	1	
2-3	DA67-02392A	CAP HANDLE REF LOW	NW2-FDR,ABS,I BLACK	1	
2-4	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	2	
3	DA97-07668A	ASSY-GASKET DOOR REF	NW2-FDR,BLACK,-,-	1	
4	6002-000468	SCREW-TAPPING	PH,+,-,2S,M5.0,L18,ZPC(WHT),SWRCH18A,-	4	
5	DA61-02984A	FIXER HANDLE	A-TOP 06,POM,-,NTR,-	2	
6	DA64-01985A	MASCOT	SBS,AL,T1.6,-,L90,Fixing-type,Siver,forging	1	
7	DA97-07681A	ASSY GUARD-DAIRY		1	
7-1	DA63-05042A	GUARD-DAIRY		1	
7-2	DA63-05050A	COVER-GUARD DAIRY		1	
8	DA63-05131A	GUARD REF-UPP	NW2-FDR,PP,COOL WHITE,SC-02740R	1	
9	DA63-05035A	GUARD REF-MID	NW2-FDR,PP,W302.5,L116.7,COOL WHITE(SC-02740R)	1	
10	DA63-05036A	GUARD REF-LOW	NW2-FDR,PP,W304.6,L179.3,COOL WHITE(SC-02740R)	1	

# 5 . EXPLODED VIEW & PARTS LIST

## 5-1) Freezer

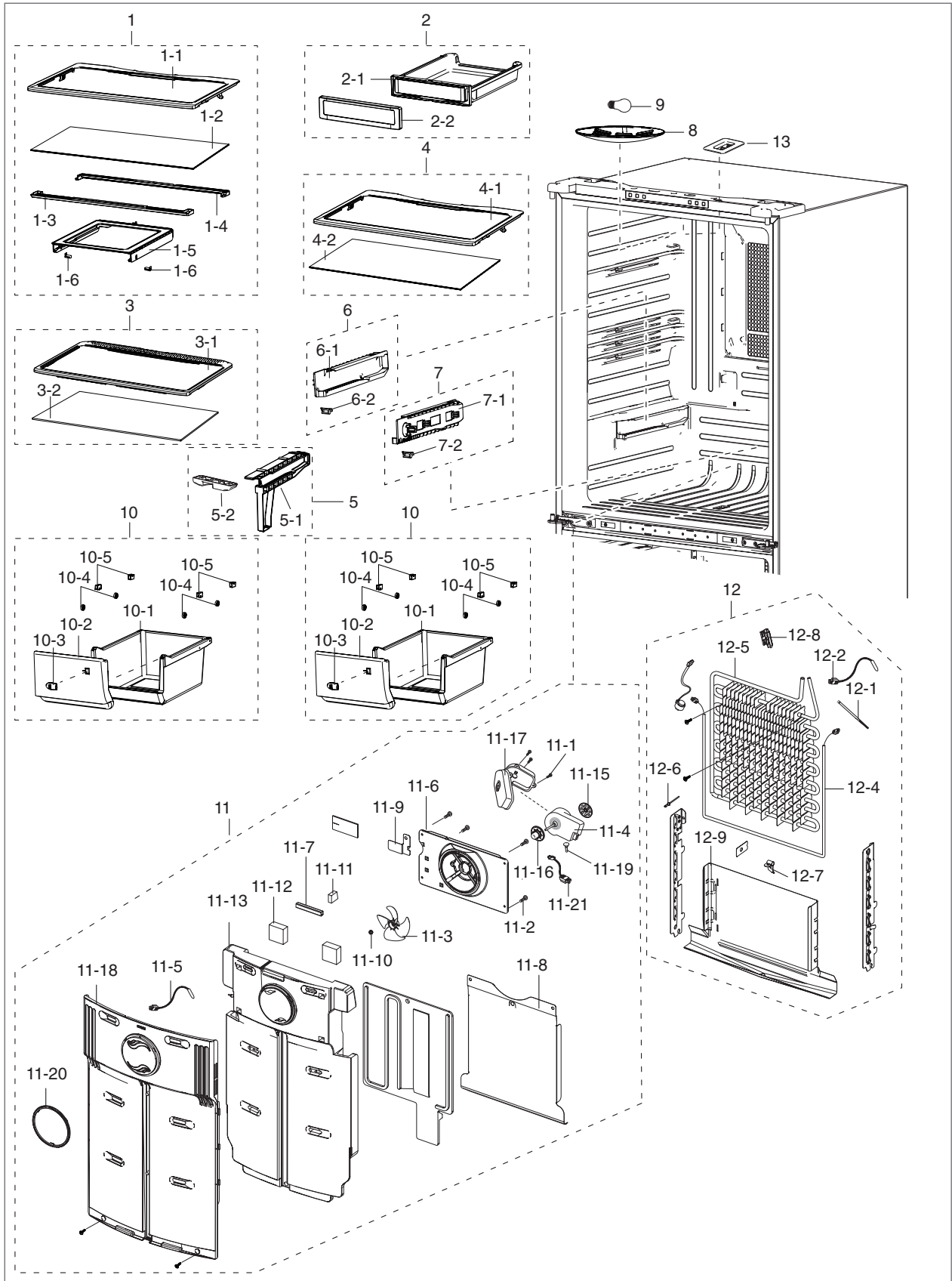


■ Parts List of Freezer (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-06670A	ASSY TRAY-FRE UPP	NW2-PJT,-,-,-,19CU ft	1	RI242
1-1	DA63-04455A	COVER-TRAY FRE UPP A	NW2-PJT,HIPS,-,-,-,COOL WHT,-	1	RI064
1-2	DA63-04456A	COVER-TRAY FRE UPP B	NW2-PJT,GPPS,-,-,-,-,-	1	RI062
1-3	DA63-04450A	TRAY-FRE UPP	NW2-PJT,HIPS,-,-,-,COOL WHITE,19INCH	1	RF002
1-4	DA66-10104A	ROLLER-FRE	POM,-,-,D22,-,-	4	RW648
1-5	DA71-20145A	FIXER-ROLLER	61BU	4	RH029
2	DA90-04793A	ASSY ICE MAKER	NW2,AUTO ICE MAKER,-,-,-,-	1	RM001
2-1	DA61-03189A	CASE-ICE CUBE	AW-PJT,PP,-,-,-,COOL WHITE,-	1	RM012
2-2	DA67-01231A	SCOOP ICE	W2-PJT(05),PP(BJ-703T4),-,-,SC-02740R,-	1	RI247
2-3	DA63-05155A	TRAY-CASE ICE CUBE	AW2-CD,LDPE,NTR		
3	DA96-00480A	ASSY EVAP-FRE	NW2-PJT,-,-,-,-,115V/240W,-	1	RF011
4	DA60-90005A	RIVET-AVEX	AL,D3.2,L9.83,-,-	1	
5	DA61-02901A	FIXER-SENSOR EVAP	CORE-PJT,PP,-,-,NTR,-	1	RI157
6	DA61-04462A	PLATE-DRAIN FRE	NW2-PJT,GALVANUME,T0.3,-,516,-,-	1	RF026
7	DA47-00243C	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M, PW-5M1N	1	RI074
8	DA63-04296A	COVER LAMP-FRE	AW2,PC,-,-,-,-,Transparent,-	1	RF031
9	4713-001206	LAMP-INCANDESCENT	120V,340mA,40W,FROST,-,-,-	1	RI081
10	DA97-06720A	ASSY RAIL-SLIDE LOW L	NW2,-,-,-,-,19cu.ft	1	RI171
10-1	DA61-04464A	HANGER-RAIL LOW L	NW2-PJT,SECC1,T1.6,COOL WHT,-,-,-	1	RD094
10-2	DA61-04516A	RAIL-SLIDE LOW L	NW2,STS304,-,-,-,-,19cu.ft	1	RI184
10-3	DA66-00436A	GEAR-L	AW-PJT,POM,-,-,-,NTR,-,-,-	1	RI242
11	DA61-04508A	SUPPORT-RAIL LOW L	NW2-PJT,ABS,-,-,-,COOL WHT,19CU ft	1	
12	DA97-06718A	ASSY RAIL-SLIDE LOW R	NW2,-,-,-,-,19cu.ft	1	RI173
12-1	DA61-04465A	HANGER-RAIL LOW R	NW2-PJT,SECC1,T1.6,COOL WHT,-,-,-	1	RD095
12-2	DA61-04515A	RAIL-SLIDE LOW R	NW2,STS304,-,-,-,-,19cu.ft	1	RI185
12-3	DA66-00436A	GEAR-L	AW-PJT,POM,-,-,-,NTR,-,-,-	1	RI242
13	DA61-04509A	SUPPORT-RAIL LOW R	NW2-PJT,ABS,-,-,-,COOL WHT,19CU ft	1	
14	DA63-04446A	TRAY-DRAWER BOX	NW2-PJT,PP,-,-,-,COOL WHT,19INCH	1	RI237
15	DA61-05425A	GUIDE-DRAWER BOX	NW2-FDR,TALC PP,W403.9,L256.6,COOL WHITE	1	
16	DA97-06657A	ASSY COVER-EVAP FRE	NW2-PJT,-,-,-,-,-,-,-	1	RF005
16-1	DA63-04444A	COVER-EVAP FRE	NW2-PJT,PP,-,-,-,-,COOL WHT,-	1	RF005
16-2	DA62-01942A	INSULATION-EVAP FRE	NW2-PJT,FOAM-PS,-,-,-,-,-,-	1	RI232
16-3	DA61-04461A	PLATE-INS EVAP FRE	NW2-PJT,GALVALUME,T0.3,-,-,-,-	1	RF092
16-4	DA63-01809A	COVER MOTOR-BLDC	BLDC-NEW,PP,NTR,-,-,-,-,BJ-730	1	RF083
16-5	DA31-00124A	FAN-AX100W4CC-T1	-,TD-PJT,ABS,-,-	1	RI085
16-6	DA61-03183A	CASE-MOTOR FRE	AW-PJT,BUBBLE PP,-,-,-,NTR,-	1	RF120
16-7	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,-,-,-,-,H20	1	RO137
16-8	DA31-00146H	MOTOR BLDC	-,2950,-,DC12V,150mA,-,-,2.1W,-,-,-,-,-,-	1	RI089
16-9	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	RO138

# EXPLODED VIEW & PARTS LIST

## 5-2) Refrigerator





## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Refrigerator (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA97-06686A	ASSY SHELF-REF UPP	NW2,19cu.ft	1	RI041
1-1	DA64-02645A	TRIM SHELF-REF	NW2,HIPS,-,-,COOL WHITE,21cu.ft	1	RI079
1-2	DA64-02647A	GLASS-SHELF	NW2,GLASS,T4.0,-,-,-,-	1	RI037
1-3	DA61-04511A	SUPPORT-GUIDE RAIL FRONT	NW2,HIPS,-,-,COOL WHITE,-	1	
1-4	DA61-04510A	SUPPORT-GUIDE RAIL REAR	NW2,HIPS,-,-,COOL WHITE,-	1	
1-5	DA61-04505A	GUIDE-RAIL	NW2,HIPS,-,-,COOL WHITE,-	1	
1-6	DA63-00202A	GROMMET-RAIL	-,NY-6,-,-,-,-,-	2	RI088
2	DA97-06674A	ASSY TRAY-CHILLED ROOM	NW2,-,-,-,19cu.ft	1	RI018
2-1	DA63-04464A	TRAY CHIL ROOM	NW2,GPPS,-,-,-,-,-	1	RI018
2-2	DA63-04465A	COVER-TRAY CHIL ROOM	NW2,HIPS,-,-,-,-,COOL WHITE,-	1	
3	DA97-06675A	ASSY SHELF-TRIM REF MID	NW2,-	1	
3-1	DA64-02645A	TRIM SHELF-REF	NW2,HIPS,-,-,COOL WHITE,21cu.ft	1	RI079
3-2	DA64-02647A	GLASS-SHELF	NW2,GLASS,T4.0,-,-,-,-	1	RI037
4	DA97-00663D	ASSY COVER-VEG	NW2-FDR,TALC PP,W403.9,L256.6,COOL WHITE	1	RI997
4-1	DA64-00448B	TRIM-COVER VEG	W2-PJT(55),ABS,-,T2.5,L403,W717,cool white	1	RI091
4-2	DA67-01807H	SHELF-GLASS	W2-PJT(55), GLASS,T5,W708.5,L346,-,COVER-VEG	1	RF183
5	DA97-07058A	ASSY RAIL VEG-MID	NW2,-,-,-,21Cu.ft	1	RI030
5-1	DA61-00760B	RAIL-VEG, MID	W2-PJT(55),ABS,T2.5,-,-,COOL-WHITE,SC-02740R	1	
5-2	DA61-04875A	SUPPORT-RAIL VEG	NW2,PP(BJ-730),-,-,COOL WHITE,-	1	
6	DA97-00103N	ASSY RAIL-VEG, L	W2-PJT,ABS,L341.5,SC-02740R,cool white,-	1	RI028
6-1	DA61-60126E	RAIL-VEG	W2-PJT,ABS,T3.0,-,LEFT,COOL-WHITE,SC-02740R	1	RI028
6-2	DA63-40006A	GROMMET	RAIL,NY-6,-,-,-,-,-,RAIL	1	RW374
7	DA97-00103P	ASSY RAIL-VEG, R	W2-PJT,ABS,L341.5,SC-02740R,cool white,-	1	RI029
7-1	DA61-60127E	RAIL-VEG	W2-PJT,ABS,T3.0,-,RIGHT,COOL-WHITE,SC-02740R	1	RI028
7-2	DA63-40006A	GROMMET	RAIL,NY-6,-,-,-,-,-,RAIL	1	RW374
8	DA63-04549A	COVER LAMP-REF	NW2,PC,-,-,-,-,NTR,PT-1020	1	
9	4713-001206	LAMP-INCANDESCENT	120V,340mA,40W,FROST,-,-,-	1	RI081
10	DA97-06700A	ASSY CASE-VEG REF	NW2-PJT,-,-,-,-,-	2	RI999
10-1	DA61-00762A	CASE-VEG,REF	W2-PJT(55),HIPS,-,-,WHITE,HG-1760	1	RI999
10-2	DA63-04445A	COVER-VEG REF	NW2-PJT,SAN,-,-,-,-,NATURAL,-	1	RI010
10-3	DA64-00656A	KNOB-HUMIDITY	W2-PJT,ABS,-,-,-,W9540,-,BEST BYE	1	RW508
10-4	DA66-10104A	ROLLER-FRE	POM,-,-,D22,-,-	4	RW648
10-5	DA71-20145A	FIXER-ROLLER	-,PA,-,-	4	RH029
11	DA97-06656A	ASSY COVER-EVAP REF	NW2-PJT,-,-,-,-,-,TWIN COOLING	1	
11-1	6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	3	RS047
11-2	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	4	RS080
11-3	DA31-00124A	FAN-AX100W4CC-T1	-,TD-PJT,ABS,-,-	1	RI085
11-4	DA31-00146H	MOTOR BLDC	2950,-,DC12V,150mA,-,-,2.1W,-,-,-,-,-	1	RI089
11-5	DA32-10105X	SENSOR TEMP	PX-41C,QUEEN PJT,-10.5V,-,-,F-SENSOR,YELLOW	1	RQ684
11-6	DA61-03181A	CASE-MOTOR REF	AW-PJT,BUBBLE PP,-,-,-,NTR,-	1	RF121
11-7	DA61-03182A	GUIDE-INS EVAP REF	AW-PJT,ABS,-,-,-,NTR,-	1	RI210
11-8	DA61-04701A	PLATE-INS EVAP REF	NW2,SAZCC,T3.0,-,-,-,-	1	
11-9	DA61-03599A	PLATE-HOUSING REF	AW-PJT,GALVALUME,T0.3,-,-,-,-	1	RI307
11-10	DA61-20128A	SPRING ETC-FAN	-,STS304,PI7.8,-,OD1.0,-,-,-,-,FD	1	RW716
11-11	DA62-01383A	INSULATION-EVAP SUB	AW-PJT,FOAM-PS,-,-,-,-,-	1	RI232
11-12	DA62-01423A	INSULATION-EVAP DUCT	AW-PJT,FOAM-PS,T20,W44.5,L45,-,-,-,-	2	RI236
11-13	DA62-01941A	INSULATION-EVAP REF	NW2-PJT,FOAM-PS,-,-,-,-,-	1	RI231
11-14	DA62-01969A	INSULATION-EVAP REAR	NW2-PJT,FOAM-PS,-,-,-,-,-	1	RI233
11-15	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	RO138
11-16	DA63-01808A	GROMMET-MOTOR,FRONT	BLDC,NBR,BLACK,-,-,-,-,H20	1	RO137
11-17	DA63-01809A	COVER MOTOR-BLDC	BLDC-NEW,PP,NTR,-,-,-,-,BJ-730	1	RF083
11-18	DA63-04439A	COVER-EVAP REF	NW2-PJT,PP,-,-,-,-,COOL WHT,-	1	RI024

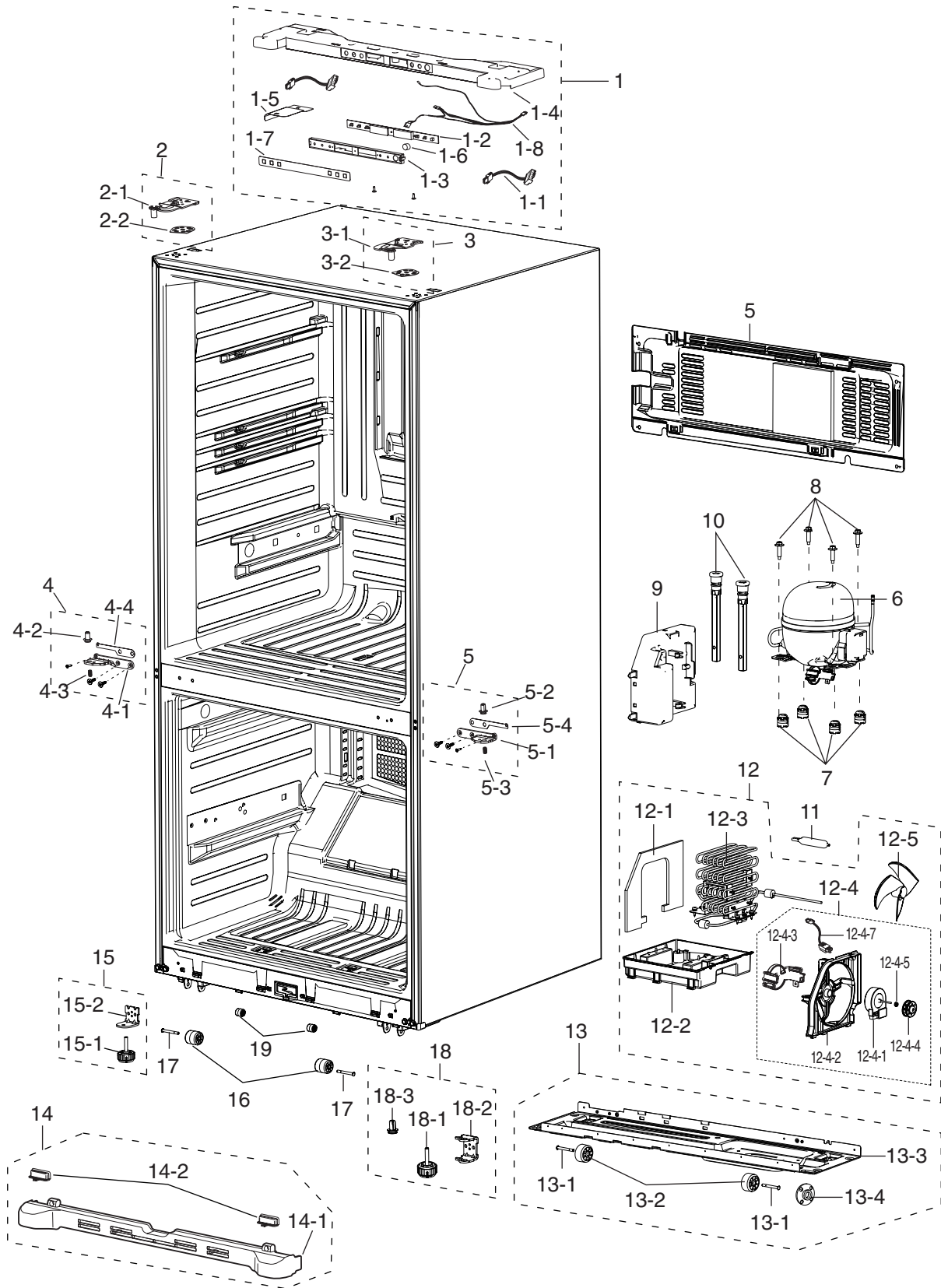
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Refrigerator (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
11-19	DA63-40167A	GROMMET-COVER CHIL	T3.0,SILICON,-,-,-,-,-,NTR	1	RI087
11-20	DA64-02065A	TRIM-COVER EVAP REF	AW-PJT,ABS,-,-,-,COOL WHITE,-	1	RI241
11-21	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP UL(MOTOR),C-FAN,350MM	1	
12	DA96-00461C	ASSY EVAP-REF	NW2-PJT,PIN,-,-,115V/240W,-,-,-,-	4	
12-1	6501-000123	CABLE TIE	DACT-140,-,W3.6,L146,NTR,NYLON66	1	RO101
12-2	DA32-00006S	SENSOR TEMP	PX-41C, 502AT,AW-PJT,-40~110°...5V,-,-,R-DEF SENSOR,YEL,400MM	1	
12-3	DA47-00243C	THERMO BIMETAL-PROTECTOR	AW-PJT(R),BT-121-M,PW-5M1N,125/250V,10/5A,60°...40°...;100MBY,-;	1	
12-4	DA47-00244B	HEATER-METAL SHEATH	-,AW-PJT,-,120W,-,115V,110.2Ω,-,-,R-ROOM	1	
12-5	DA59-00357B	EVAP REF	-,,-,-,-,-,AW-PJT,-	1	RI016
12-6	DA60-90005A	RIVET-AVEX	AL,D3.2,L9.83,-,-	1	
12-7	DA61-03644A	PLATE-EVAP HEATER	AW-PJT,AL,T0.7,-,-,-,-	1	RF170
12-8	DA61-03683A	FIXER-SENSER	AW-PJT,ABS,-,NTR,-	1	RM017
12-9	DA61-04148A	PLATE-DRAIN REF	AW-PJT('08),GALVANUME,T0.3,-,-,-,-		RF026
13	DA61-05292A	GUIDE-FRENCH	NW2-FDR,PC-ABS,31.3,95.1,COOL WHITE,SC-02740R	1	

# EXPLODED VIEW & PARTS LIST

## 5-3) Cabinet



## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Cabinet (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUANTITY	REMARK
1	DA97-07654A	ASSY-TOP TABLE	NW2-FDR,I BLACK(SC-00477R),BLUE LED(Fahrenheit)	1	
1-1	DA34-00043C	SWITCH REED-ASS'Y	200VDC,1.5A,-	2	
1-2	DA41-00635A	PBA PANEL	NW2 FDR-PJT,DOOR REF,FR-4,300*19.5*1.6T,BLUE LED,12V,5V,-,N,-,-	1	
1-3	DA61-05316A	CASE-PBA DISPLAY	NW2-FDR,HIPS,L303.2,NTR	1	
1-4	DA64-02960A	TOP TABLE	NW2-FDR,HIPS,I-BLACK (SC-00477R),T2.0,L811	1	
1-5	DA61-04052A	PLATE-TOP TABLE	AW-PJT,SBHG1,T0.3,67.8,115,-,AW-BASIC	1	
1-6	DA64-02071A	BUTTON-CONTROL	AW-PJT,GPPS,-,-,NTR,-	1	
1-7	DA64-02981A	INLAY-DISPLAY	NW2-FDR,PC,T0.25,I BLACK(SC-00477R),Fahrenheit	1	
1-8	DA96-00571A	ASSY W/HARNESS-TOP TABLE	NW2-PJT,FDR	1	
2	DA97-06715B	ASSY HINGE UPP-L	NW2,T3.0,-,-,BLACK,-,-	1	
2-1	DA61-04475B	HINGE-UPP L	NW2-PJT,SHP1,T3.0,-,-,-,-	1	
2-2	DA63-02527A	SHIM HINGE-UPP	NW2-PJT(05),HIPS,T1.0,-,-,-,-	1	
3	DA97-06716B	ASSY HINGE UPP-R	NW2,T3.0,-,-,BLACK,-,-	1	
3-1	DA61-04476B	HINGE-UPP R	NW2-PJT,SHP1,T3.0,-,-,BLACK,-,-	1	
3-2	DA63-02527A	SHIM HINGE-UPP	NW2-PJT(05),HIPS,T1.0,-,-,-,-	1	
4	DA97-07514A	ASSY HINGE MID-L	AW2 CD-PJT,T4.5,-,-,Ni-Cr Plated,-,-	1	
4-1	DA61-04916D	HINGE-MID L	AW2,SHP1,T4.5,Ni-Cr+Cu Plating,Heat Treatment,SNC2	1	
4-2	DA66-00444A	SHAFT HINGE-MID R	NEXT-PJT,AW,SM10C,-,OD11.2,-,-,-	1	
4-3	6011-001442	BOLT-SOCKET	M8,L13.4,ZPC(BLK),SCM435,-	1	
4-4	DA63-04694A	SHIM HINGE-MID	AW2,RD-PVC,T1.0,-,-,NTR,-	1	
5	DA97-07515A	ASSY HINGE MID-R	AW2 CD-PJT,T4.5,-,-,Ni-Cr Plated,-,-	1	
5-1	DA61-04917D	HINGE-MID R	AW2,SHP1,T4.5,Ni-Cr+Cu Plating,Heat Treatment,SNC2	1	
5-2	DA66-00444A	SHAFT HINGE-MID R	NEXT-PJT,AW,SM10C,-,OD11.2,-,-,-	1	
5-3	6011-001442	BOLT-SOCKET	M8,L13.4,ZPC(BLK),SCM435,-	1	
5-4	DA63-04694A	SHIM HINGE-MID	AW2,RD-PVC,T1.0,-,-,NTR,-	1	
6	DA63-02905A	GROMMET HINGE-MID,R	NEXT,POM,T2.0,-,-,-,WHITE,-	1	
7	DA97-07835A	ASSY COVER COMP	NW2-FDR,T0.4,W263.6,L716.0	4	
8	DA60-20008A	BOLT-HEX	S25C,M6,-,-,L42.6,WHITE,-,ZPC	4	
9	DA63-01866A	COVER RELAY	NORYL,T2.0,-,-,-,SSEC,BLACK,HOOK	1	
10	DA97-04049A	ASSY CAP-DRAIN	EPEL,ASSY,-,-,L224.5,-,SOFT-PVC	2	
11	DA62-01514A	DRYER	C1220T,OD18.70,L114,-,-,-	1	
12	DA97-07655A	ASSY TRAY-DRAIN WATER	NW2-FDR,PP SCRAP,SPIRAL COND.	1	
12-1	DA62-00954A	SEAL-SUB COND	W2-05,FOAM-PE,-,T7,-,-,-	1	
12-2	DA63-04466A	TRAY DRAIN-WATER	NW2,PP,-,-,-,NTR,-	1	
12-3	DA97-07653A	ASSY PIPE-CONDENSER	NW2-FDR	1	
12-4	DA97-03145L	ASSY SUPPORT-CIRCUIT MOTOR	AW2-PJT,-,-,-,1550RPM,2.7W	1	
12-4-1	DA31-00146B	MOTOR BLDC	DRCP5030LA,1560,-,DC12V,230mA,-,-,2.7W,ATOP	1	
12-4-2	DA61-02349B	SUPPORT-CIRCUIT MOTOR	NEXT,ABS,-,-,-,NTR,-	1	
12-4-3	DA61-02355B	BRACKET-CIRCUIT MOTOR	ABS,NEXT,-,-,-,NTR,-	1	
12-4-4	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,-,-,-,ID6.5,OD42,BLK,BLDC	1	
12-4-5	DA63-40167A	GROMMET-COVER CHIL	SILICON,T3.0,-,L16,-,-,BLACK,-	1	
12-4-6	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP UL(MOTOR),C-FAN,350MM	1	
12-5	DA31-00010D	FAN-ASS'Y	ET,ZIPEL,ASSY,-,UNIT,150	1	
13	DA97-06815B	ASSY CHASSIS COMP	NW2/FDR,CASTER(TPE)	1	
13-1	DA66-00649A	SHAFT-CASTER	AW-PJT,MSWR10,L46,OD8.2,-,-,ZPC2 / 2	2	
13-2	DA61-04703A	CASTER-REAR	AW-PJT,PP,-,35,NTR,35,PP+TPE / 2	2	
13-3	DA64-02694A	CHASSIS COMP	NW2,SBHG1,T1.2,-,-,-,-	1	
13-4	DA71-50240A	BRACKET-CABI	ALL,SBHG1,T1.6,-,-,-,-	1	
14	DA97-07836B	ASSY COVER LEG FRONT	NW2-FDR,I-BLACK,DRAWER	1	
14-1	DA63-05106B	COVER LEG-FRONT	NW2,PP,I-BLACK(SC-00477R),NEW09	1	
14-2	DA67-02071B	CAP LEG FRONT	NW2,PP,-,-,-,I-BLACK,SC-00477R / 2	2	

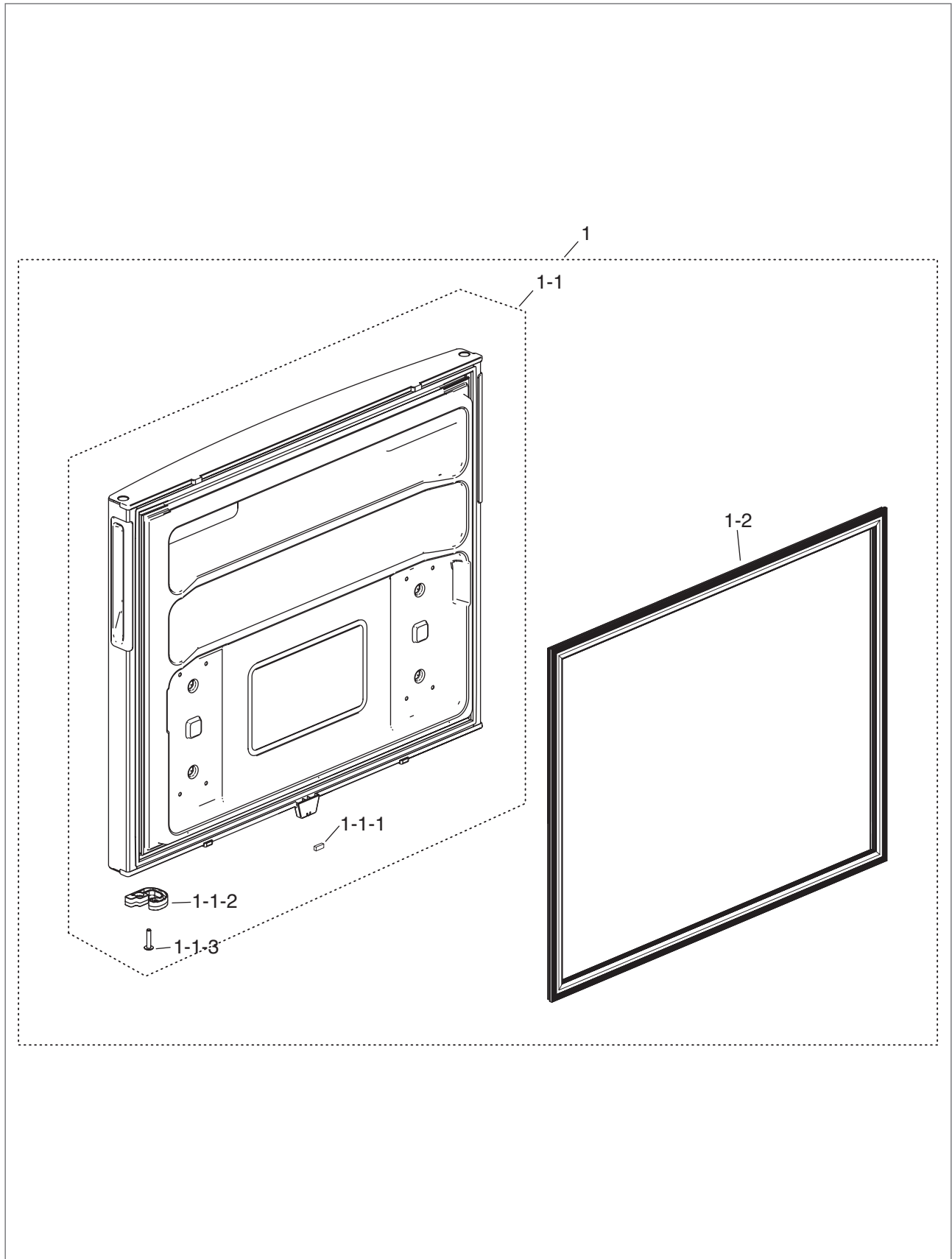
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Cabinet (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
15	DA97-06688B	ASSY SUPPORT-FOOT FRONT	NW2-FDR,FOOT FRONT(DA61-04977A) / 2	2	
15-1	DA61-04977A	FOOT-FRONT	AW2-PJT,PP+MSWR10,-,BLACK,-,-,- / 2	1	
15-2	DA61-04490A	SUPPORT-FOOT FRONT	NW2,SHP1,T4.0,-,-,-,- / 2	1	
15-3	DA71-50240B	BRACKET-CABI	T3-PJT,SBHG1,T1.6,-,-,-,-		
16	DA61-04702A	CASTER-FRONT	AW-PJT,PP,-,35,NTR,35,PP+TPE	2	
17	DA61-01920A	CASTER-RIVET	(ZPC2),MSWR10,OD8.0,L54,-,-,-	2	

# EXPLODED VIEW & PARTS LIST

## 5-4) Disassembly of Freezer Door



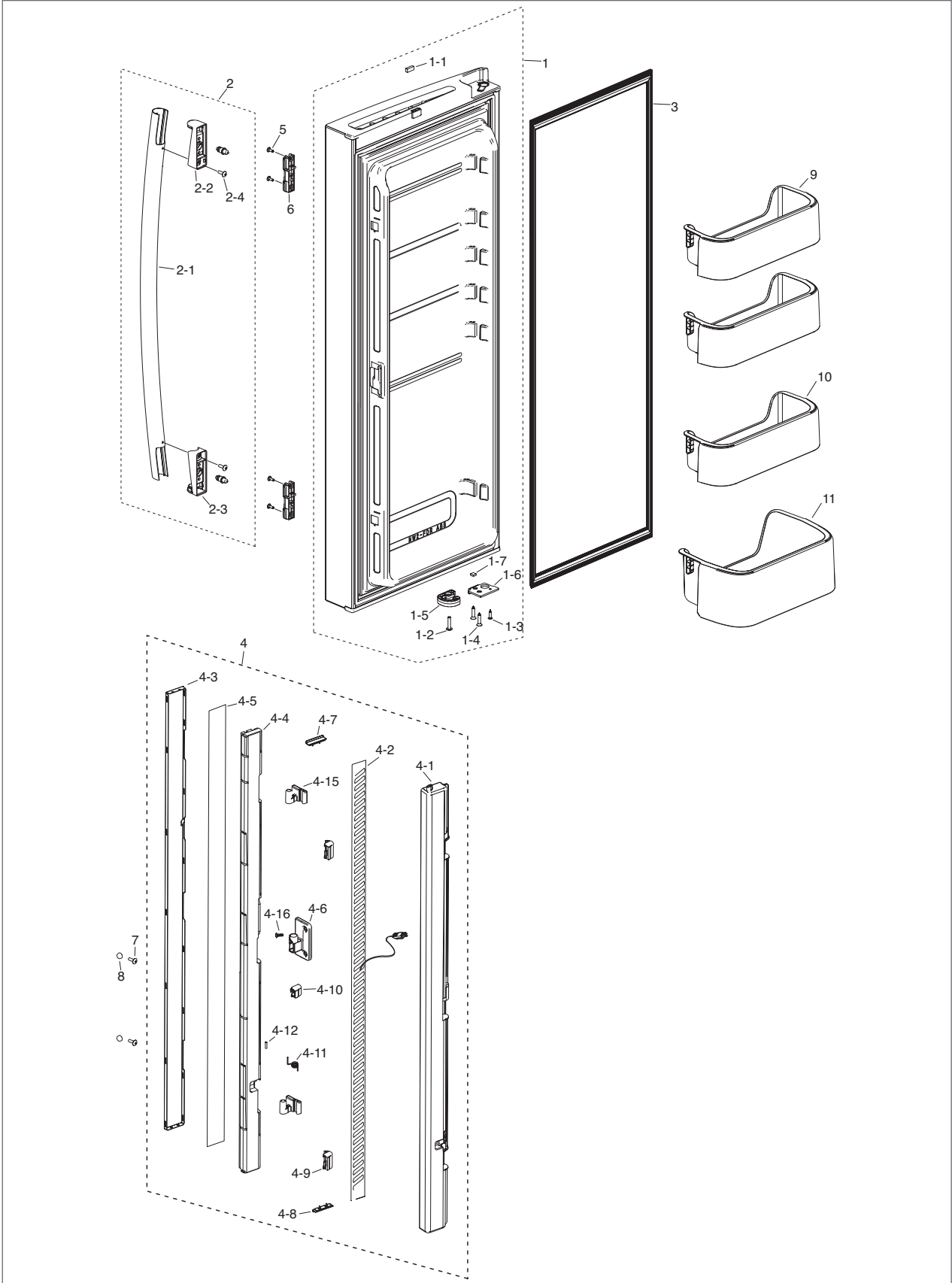
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Freezer Door (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	CODE----	ASSY DOOR FRE(SWING)		1	
1-1	CODE----	ASSY DOOR FOAM FRE(SWING)		1	
1-1-1	DA61-03769A	MAGNET	HERMES,-,5x7x18,-,-,1200Gauss	1	
1-1-2	DA61-02773A	STOPPER-DOOR	CORE,POM,-,-,-,NTR,-	1	
1-1-3	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWRCH18A,FP,-	1	
1-2	DA97-07722A	ASSY-GASKET DOOR FRE	NW2-FDR,BLACK,-,-	1	

# EXPLODED VIEW & PARTS LIST

## 5-5) Disassembly of Refrigerator Door Left





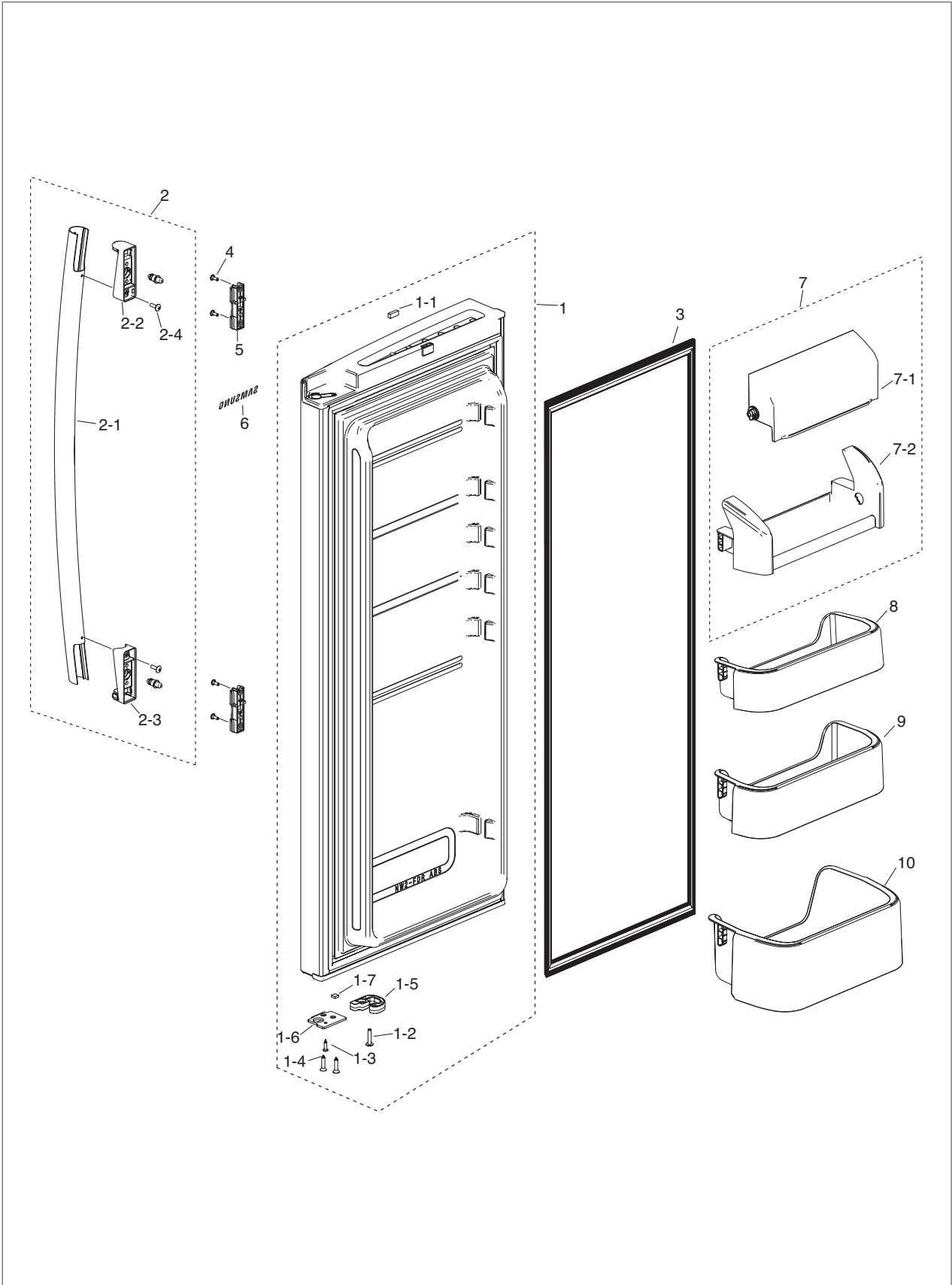
## EXPLODED VIEW & PARTS LIST

### ■ Parts List of Refrigerator Door-Left (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA91-02889A	ASSY DOOR FOAM REF L(NON-DISPENSER)	NW2-FDR,BLACK,-,-,BASIC	1	
1-1	DA61-03769A	MAGNET	HERMES,-,5x7x18,-,-,1200Gauss	1	
1-2	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWRCH18A,FP,-	1	
1-3	6002-001120	SCREW-TAPPING	FH,+,-,1,M4,L18,ZPC(WHT),SWRCH18A	1	
1-4	6009-001475	SCREW-SPECIAL	FH,+,-,M5,L25(15.5),PASS,STS304,1,-	2	
1-5	DA61-02383A	SUPPORT-DOOR CLOSE	NEXT,POM,-,-,-,-,-	1	
1-6	DA61-03211A	STOPPER-DOOR L	AW-PJT,SHP1,T2.9,-,-,-,-,-	1	
1-7	DA63-40294A	GROMMET-STOPPER	T3XW8XL8,NR,-,-,-,-,-,BLK	1	
2	DA97-07896A	ASSY HANDLE-BAR REF	NW2-FDR,-,-,-,-,MATURE BLACK,-	2	
2-1	DA64-03069A	HANDLE BAR REF	NW2-FDR,AL,T1.2,-,777,-,MATURE BLACK,COATING	1	
2-2	DA67-02391A	CAP HANDLE REF UPP	NW2-FDR,ABS,I BLACK	1	
2-3	DA67-02392A	CAP HANDLE REF LOW	NW2-FDR,ABS,I BLACK	1	
2-4	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	2	
3	DA97-07668A	ASSY-GASKET DOOR REF	NW2-FDR,BLACK,-,-	1	
4	DA97-07661A	ASSY-FRENCH	NW2-FDR,6W,BLACK,-	1	
4-1	DA61-05315A	CASE-FRENCH	NW2-FDR,ABS,888.9,COOL WHITE (SC-02740R)	1	
4-2	DA47-00245E	HEATER CORD-FRENCH	NW2-PJT,P-CORD,6W,120V,2400,FRENCH	1	
4-3	DA61-05291A	PLATE-FRENCH	NW2-FDR,SECC1,T0.8,41.1,879.3,ALL BLACK	1	
4-4	DA62-02212A	INSULATION-FRENCH	NW2-FDR,FOAM-PS,883.0	1	
4-5	DA62-02294A	SEAL-CUTT FRENCH	NW2-FDR,SPONGE+AL,-,T3,W35,L88°¶	1	
4-6	DA63-03454B	COVER-HEATER FRENCH	AW-PJT,PC(HF-1023IM),-,-,-,-,COOL-WHITE(SC-02740R,-	1	
4-7	DA63-03508A	GASKET-FRENCH	AW-PJT,SF-PVC,-,-,-,BLACK,-,-	1	
4-8	DA63-05158A	GASKET-FRENCH	NW2-FDR,SILICON,0.8,BLACK	1	
4-9	DA67-01650A	CAP-CASE FRENCH	AW-PJT,ABS,-,-,-,-,-	2	
4-10	DA67-01701A	CAP-CASE FRENCH MID	AW-PJT,ABS,-,-,-,-,-	1	
4-11	DA81-01345A	SPRING-ETC FRENCH	STS304,PI1.4,-,-,-,-,-	1	
4-12	DA81-01346A	PIN-FRENCH SPRING	RD-PVC,WHITE,-,-,-,-,-	1	
4-13	DA67-02306A	CAP GUIDE FRENCH UPP	AW2 CD,POM,-,-,-,COOL WHITE,-	1	
4-14	6002-000630	SCREW-TAPPING	PH,+,-,2S,M3,L8,ZPC(WHT),SWRCH18A,-	1	
4-15	DA61-03230B	HINGE-FRENCH	AW-PJT,PC(HF-1023IM),-,-,-,COOL-WHITE(SC-02740R,-,-	2	
4-16	6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	1	
5	6002-000468	SCREW-TAPPING	PH,+,-,2S,M5.0,L18,ZPC(WHT),SWRCH18A,-	4	
6	DA61-02984A	FIXER HANDLE	A-TOP 06,POM,-,NTR,-	2	
7	6002-000213	SCREW-TAPPING	TH,+,-,1,M4,L12,ZPC(WHT),SWRCH18A,-	2	
8	DA67-30218R	CAP-SCREW	-,PP,-,-,-,SC-97527R,SNOW WHITE	2	
9	DA63-05131A	GUARD REF-UPP	NW2-FDR,PP,COOL WHITE,SC-02740R	2	
10	DA63-05035A	GUARD REF-MID	NW2-FDR,PP,W302.5,L116.7,COOL WHITE(SC-02740R)	1	
11	DA63-05036A	GUARD REF-LOW	NW2-FDR,PP,W304.6,L179.3,COOL WHITE(SC-02740R)	1	

# EXPLODED VIEW & PARTS LIST

## 5-6) Disassembly of Refrigerator Door Right



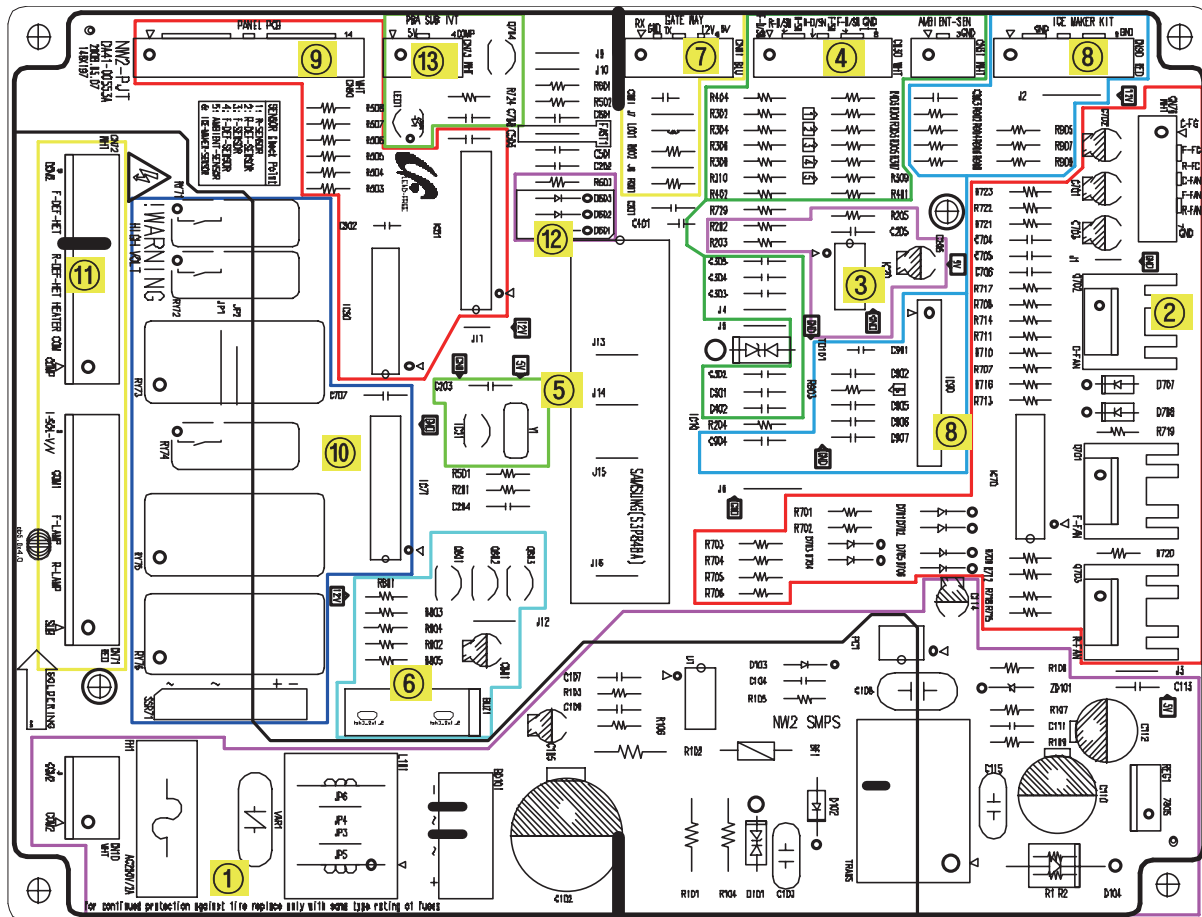
## EXPLODED VIEW & PARTS LIST

### ■ Part List of Refrigerator Door-Right (RF195AB)

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	REMARK
1	DA91-02888A	ASSY DOOR FOAM REF R		1	
1-1	DA61-03769A	MAGNET	HERMES,-,5x7x18,-,-,1200Gauss	1	
1-2	6001-001377	SCREW-MACHINE	TH,+,-,M5,L25,ZPC(WHT),SWRCH18A,FP,-	1	
1-3	6002-001120	SCREW-TAPPING	FH,+,-,1,M4,L18,ZPC(WHT),SWRCH18A	1	
1-4	6009-001475	SCREW-SPECIAL	FH,+,-,M5,L25(15.5),PASS,STS304,1,-	2	
1-5	DA61-02383E	SUPPORT-DOOR CLOSE	AW-PJT,POM,-,-,-,CREAMY STS,-	1	
1-6	DA61-03212A	STOPPER-DOOR L	AW-PJT,SHP1,T2.9,-,-,-,-	1	
1-7	DA63-40294A	GROMMET-STOPPER	T3XW8XL8,NR,-,-,-,-,-,BLK	1	
2	DA97-07896A	ASSY HANDLE-BAR REF	NW2-FDR,-,-,-,-,MATURE BLACK,-	2	
2-1	DA64-03069A	HANDLE BAR REF	NW2-FDR,AL,T1.2,-,777,-,MATURE BLACK,COATING	1	
2-2	DA67-02391A	CAP HANDLE REF UPP	NW2-FDR,ABS,I BLACK	1	
2-3	DA67-02392A	CAP HANDLE REF LOW	NW2-FDR,ABS,I BLACK	1	
2-4	6002-000215	SCREW-TAPPING	TH,+,-,1,M4.0,L16,ZPC(WHT),SWRCH18A,-	2	
3	DA97-07668A	ASSY-GASKET DOOR REF	NW2-FDR,BLACK,-,-	1	
4	6002-000468	SCREW-TAPPING	PH,+,-,2S,M5.0,L18,ZPC(WHT),SWRCH18A,-	4	
5	DA61-02984A	FIXER HANDLE	A-TOP 06,POM,-,NTR,-	2	
6	DA64-01985A	MASCOT	SBS,AL,T1.6,-,L90,Fixing-type,Siver,forging	1	
7	DA97-07681A	ASSY GUARD-DAIRY		1	
7-1	DA63-05042A	GUARD-DAIRY		1	
7-2	DA63-05050A	COVER-GUARD DAIRY		1	
8	DA63-05131A	GUARD REF-UPP	NW2-FDR,PP,COOL WHITE,SC-02740R	1	
9	DA63-05035A	GUARD REF-MID	NW2-FDR,PP,W302.5,L116.7,COOL WHITE(SC-02740R)	1	
10	DA63-05036A	GUARD REF-LOW	NW2-FDR,PP,W304.6,L179.3,COOL WHITE(SC-02740R)	1	

## 6. PCB DIAGRAM

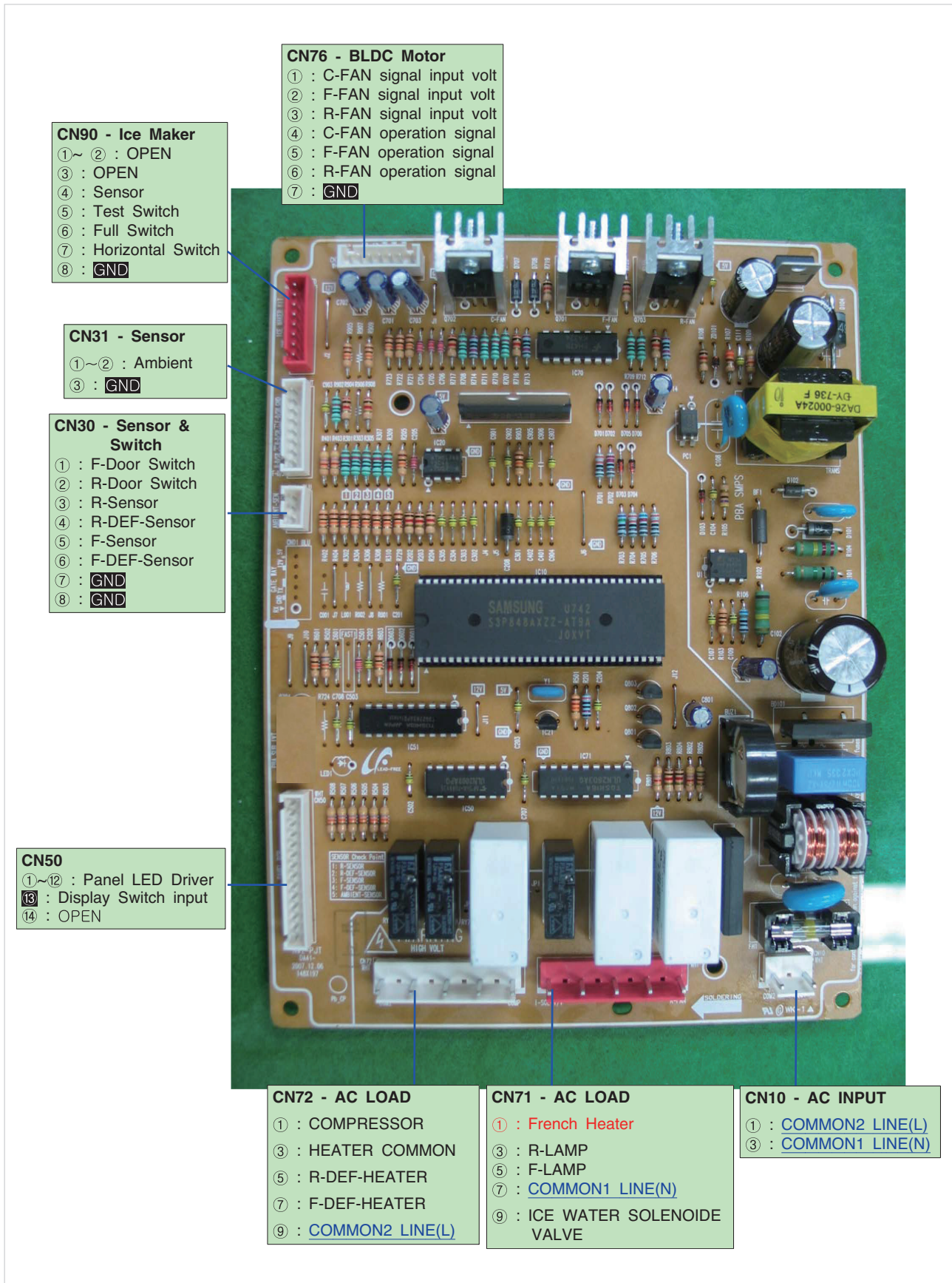
### 6-1) PCB L ayout with part position (Main Board)



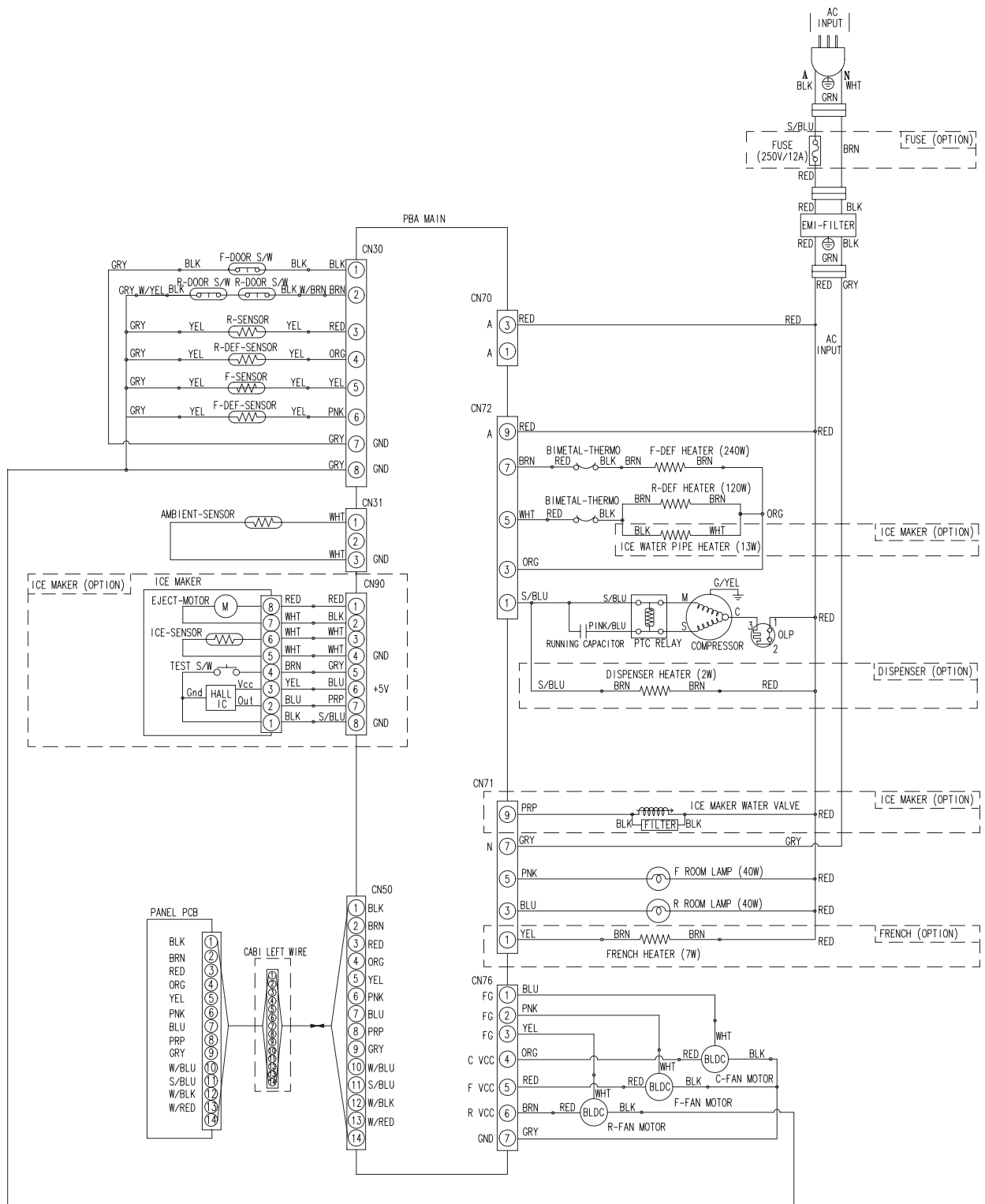
1. DC12V,5V, & GND are supplied from SMPS PCB.
2. FAN MOTOR driving part : Supply the power from 8.3V~12V to motor according to the motor type (F,R,C,ICE).
3. EEPROM : Save and record every kinds of data.
4. Transmit inputted signals from every sensor into MICOM after eliminate the noise.
5. Departure part : Generate the CLOCK which needs to control MICOM program RESET control circuit part : Initialize the program by sensing power ON/OFF.
6. BUZZER Circuit
7. PLC Input / Output
  - PLC (Power Line communication)
  - \* Option(PLC module is not inserted unless specified occasion.)
8. Operate ICE-MAKER, supply power to MOTOR, and sense the variation of switch.
9. Display driving part : Display LED & detect KEY state.
10. Relay part which controls AC load : Operate by receiving the driving signals of MICOM through Sink IC.
11. Connector part : Connect AC load.
12. DIODE option setting part : Set the option
13. Inverter Control part

# PCB DIAGRAM

## 6-2) Connector Layout with part position (Main Board)

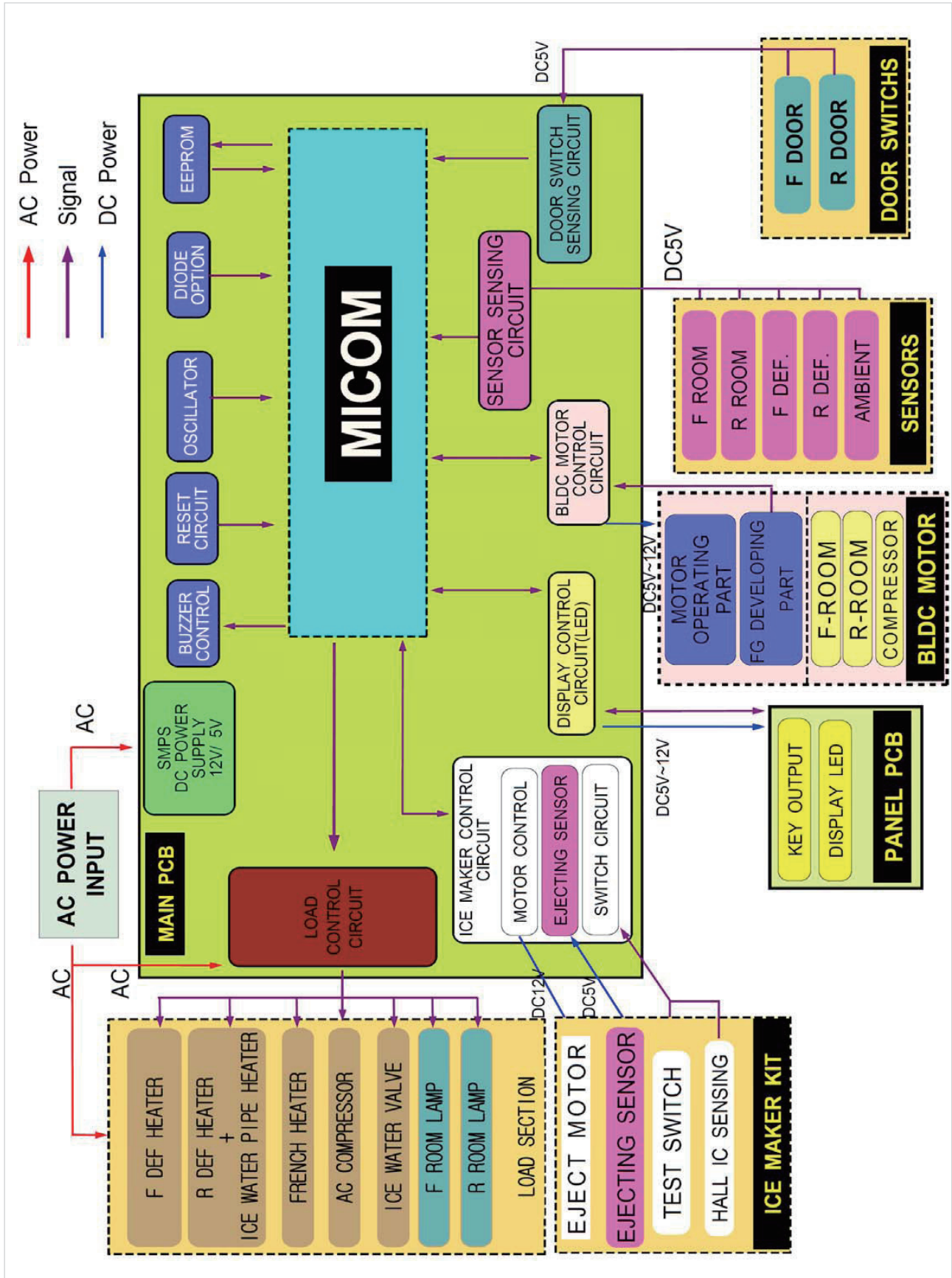


# 7. Wiring Diagram



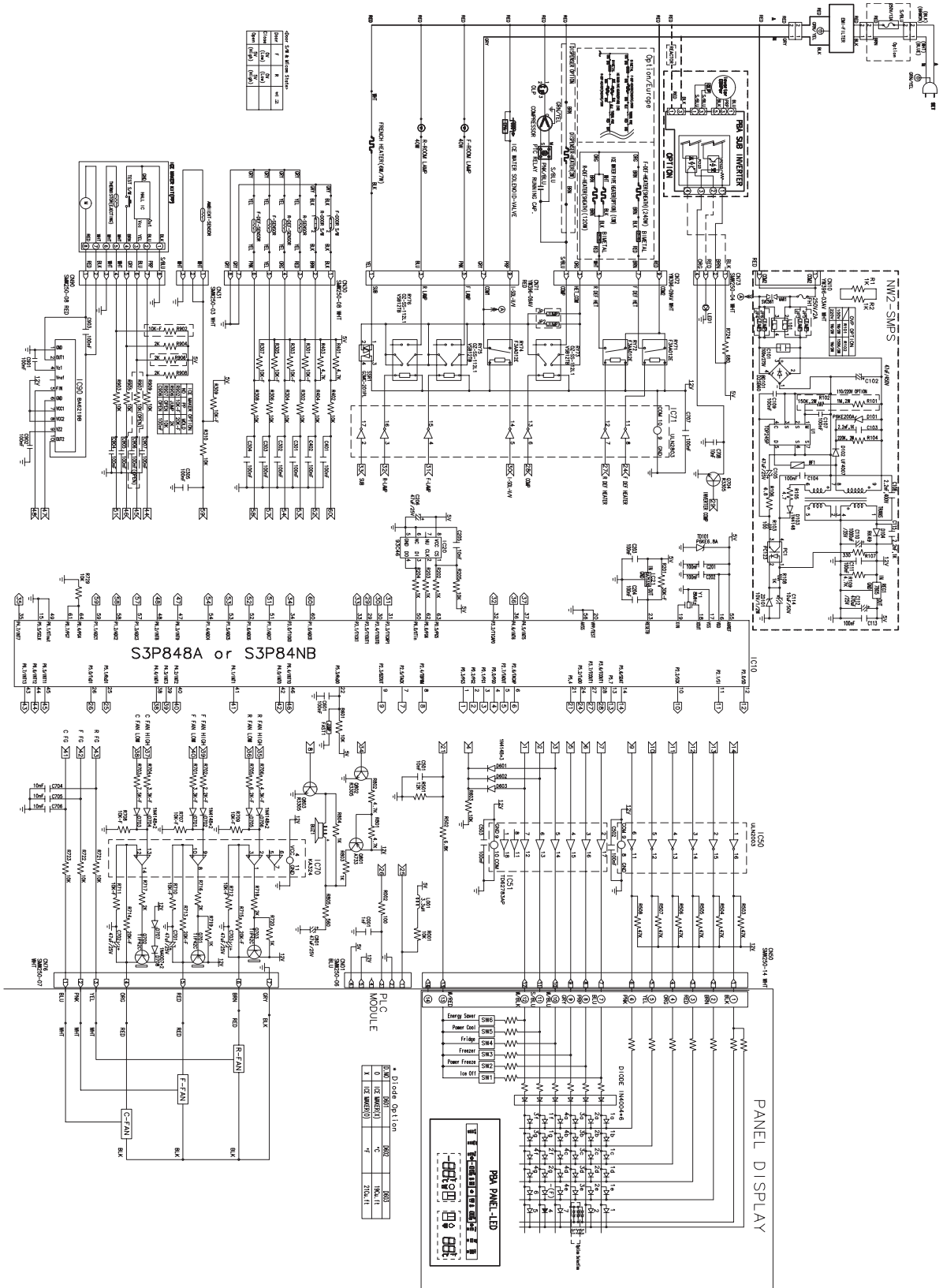
# 8. Schematic Diagram

## 8-1) Refrigerator Block Diagram



# Schematic Diagram

## 8-2) Main







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