

Refrigerator Service Manual

RN-531N



RN-532N



RN-533N



RN-534N



RN-535N



RN-536N



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1. SPECIFICATIONS

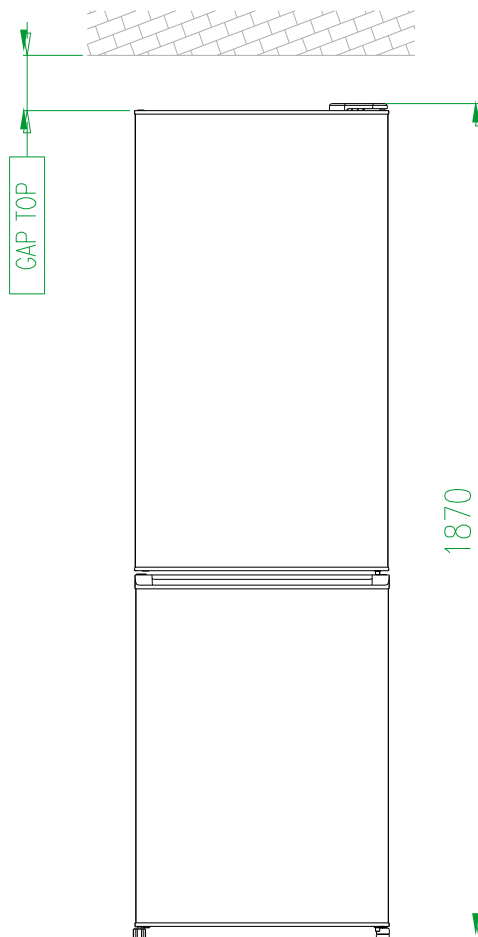
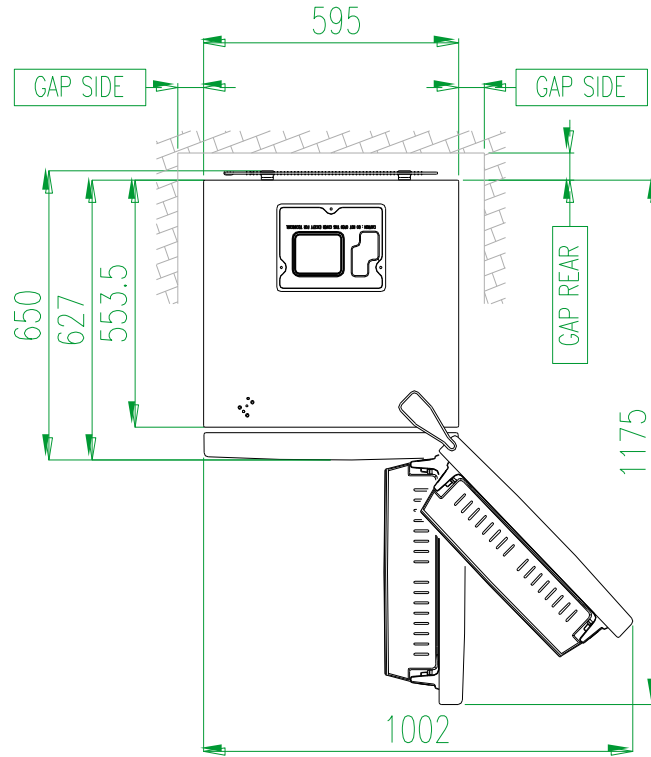
1-1. Model Information

* is the Door Type

Buyer No.		RN-53*N
Factory No.		RFP-30*N*Q8N
Gross Vol. ISO 15502 (unit: L)	Total	337
	Freezer	111
	Refrigerator	226
Storage Vol. ISO 15502 (unit: L)	Total	305
	Freezer	84
	Refrigerator	221
Diemension (unit: mm)	Net Width (Packing)	595(634)
	Net Depth (Packing)	650(685)
	Net Height (Packing)	1870(1970)
Net Weight (Packing)		67(73)kg
Control Type		KNOB & Digital Smart Control
Cooling Cycle	Refrigerant Type	R-600a
	Refrigerant Charge	0.044kg
	Evaporator Type	Fin Type
	Condenser Type	Natural Convection Cooling System
	Dryer	Desiccant: Molecular Sieve xH-9
	Capillary Tube (unit: mm)	ID0.7 x T0.55 x L2290
Heater	Defrost Type	Automatic Start & Stop
	Defrost Heater	AC230V, 130W
	Defrost Shape	Sheath Type
Freezer Fan Motor		DC12V, 2300RPM
Refrigerator Lighting		Bulb 15W x 1EA
Blowing Agent		C-Pentane

1-2. Outside Dimensions & Interior Parts

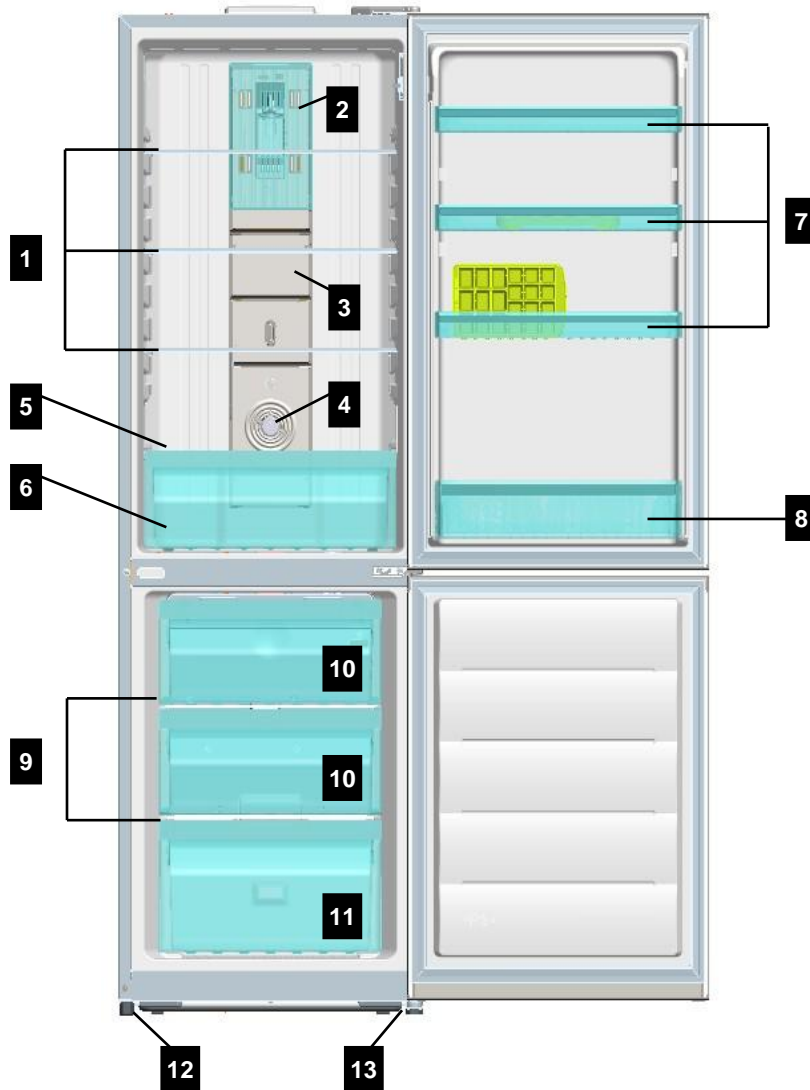
1-2-1. Outside Dimensions



※ Allow sufficient space to the side, rear and top for air circulation (side and rear: at least 50mm, top: at least 100mm)

1-2. Outside Dimensions & Interior Parts

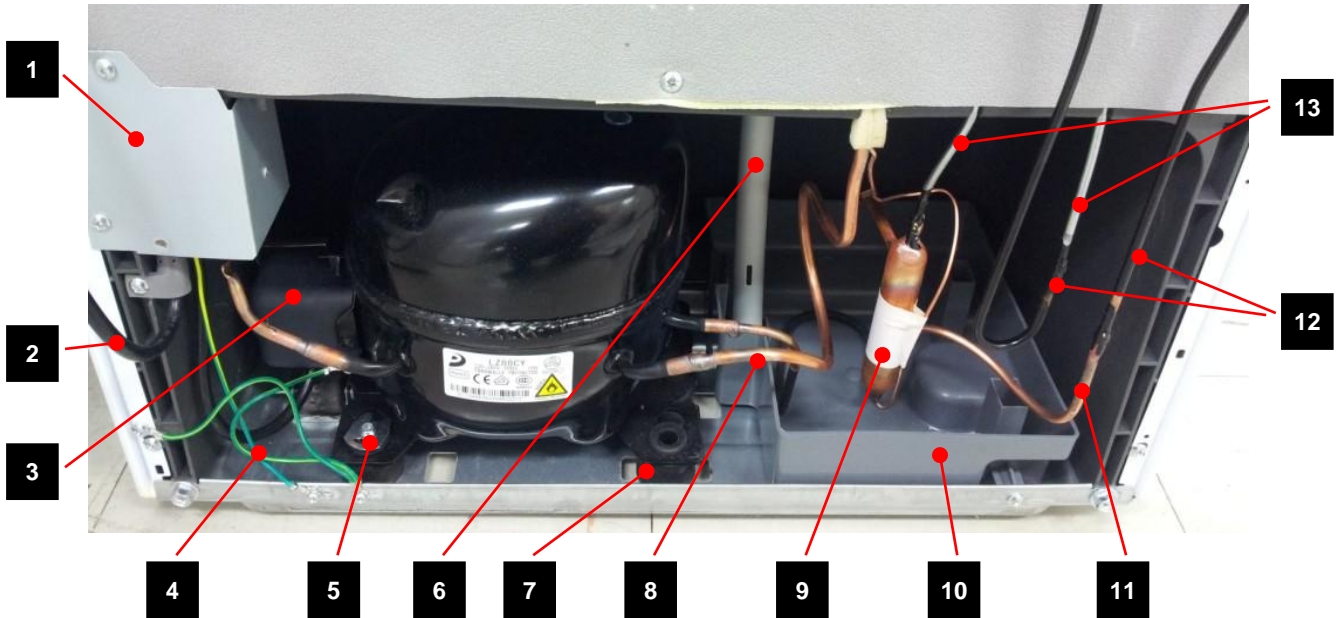
1-2-2. Interior Parts



- 1. Refrigerator Shelves
- 2. Lamp Window
- 3. Multi Duct
- 4. Knob R Control
- 5. Cover Vegetable Case
- 6. Vegetable Case

- 7. Refrigerator Pocket "R"
- 8. Refrigerator Pocket "J"
- 9. Freezer Shelves
- 10. Freezer Case "A"
- 11. Freezer Case "B"
- 12. Adjusting Leg (Left)
- 13. Adjusting Leg (Right)

1-3. Machine (Compressor) Compartment View



1.Box Power As (Capacitor Run)

2. Power Cord

3. Switch P Relay As

4. Earth Comp Wire

5. Fixture Compressor (Washer)

6. Drain Hose

7. Compressor Absorber

8. Suction Pipe As

9. Dryer As

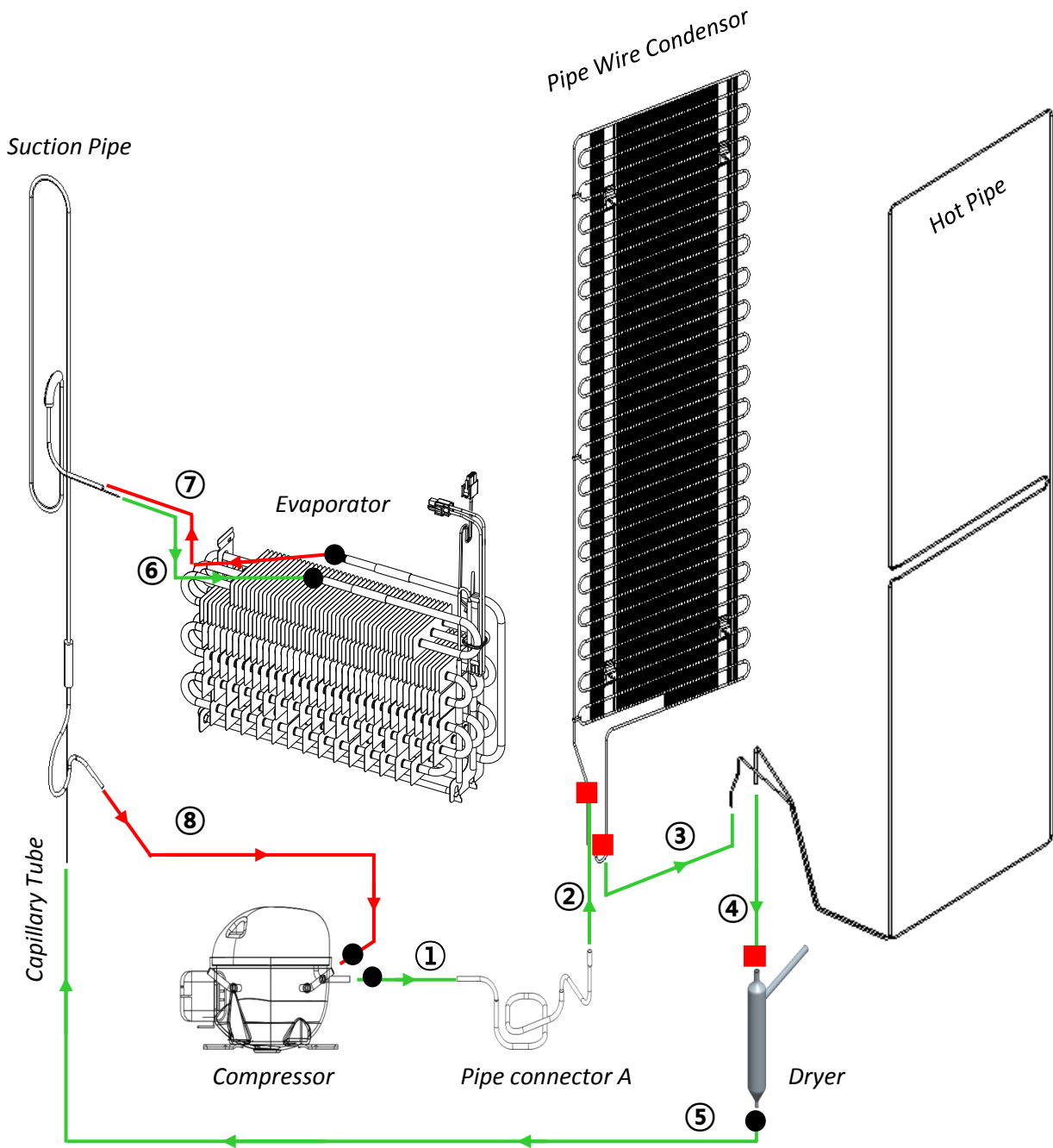
10. Case vaporization As

11.Pipe connector A

12. Pipe Wire Condensor As

13. Pipe Hot

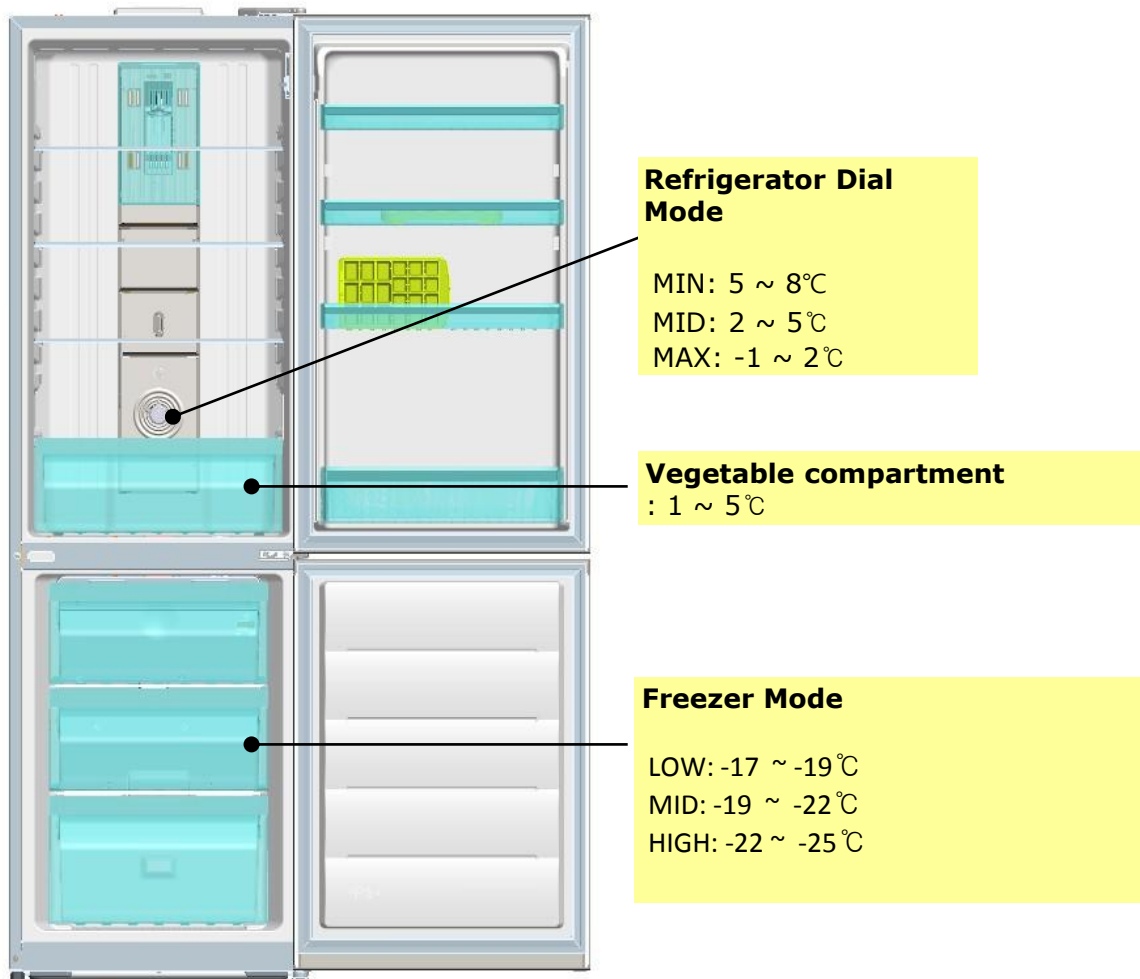
1-4. Refrigerant Cycle



- Welding Point

●	Copper Welding (Ag 5%)	5 Point
■	Silver Welding (Ag 30%)	3 Point

1-5. Temperature Diagram

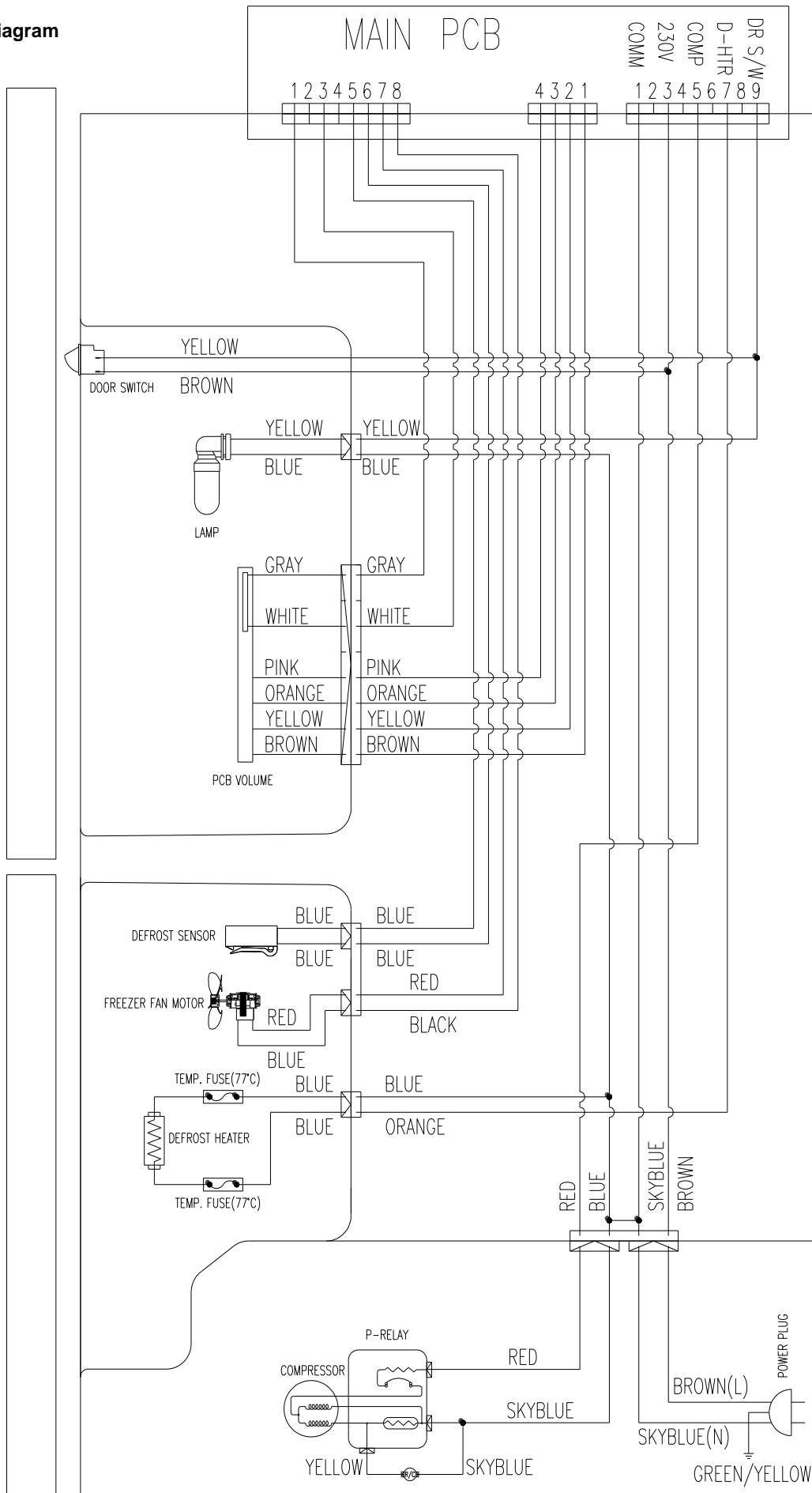


; The actual inner temperature varies depending on the food status, as the indicated setting temperature is a target temperature, not actual temperature within refrigerator.

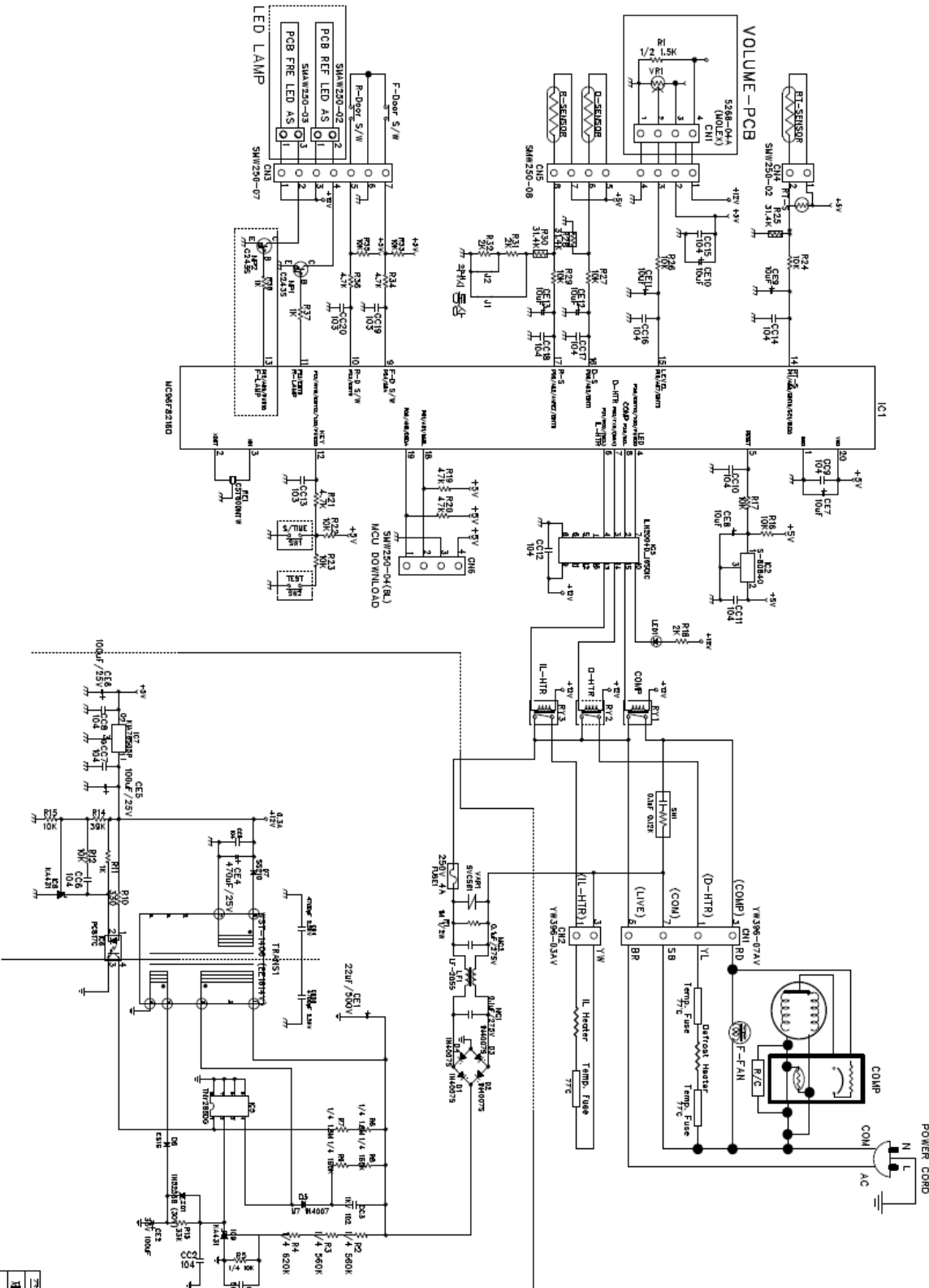
; Refrigeration function is weak in the initial time.

Please adjust temperature as above after using refrigerator for minimum 1 ~ 2 days.

1-6. Wiring Diagram



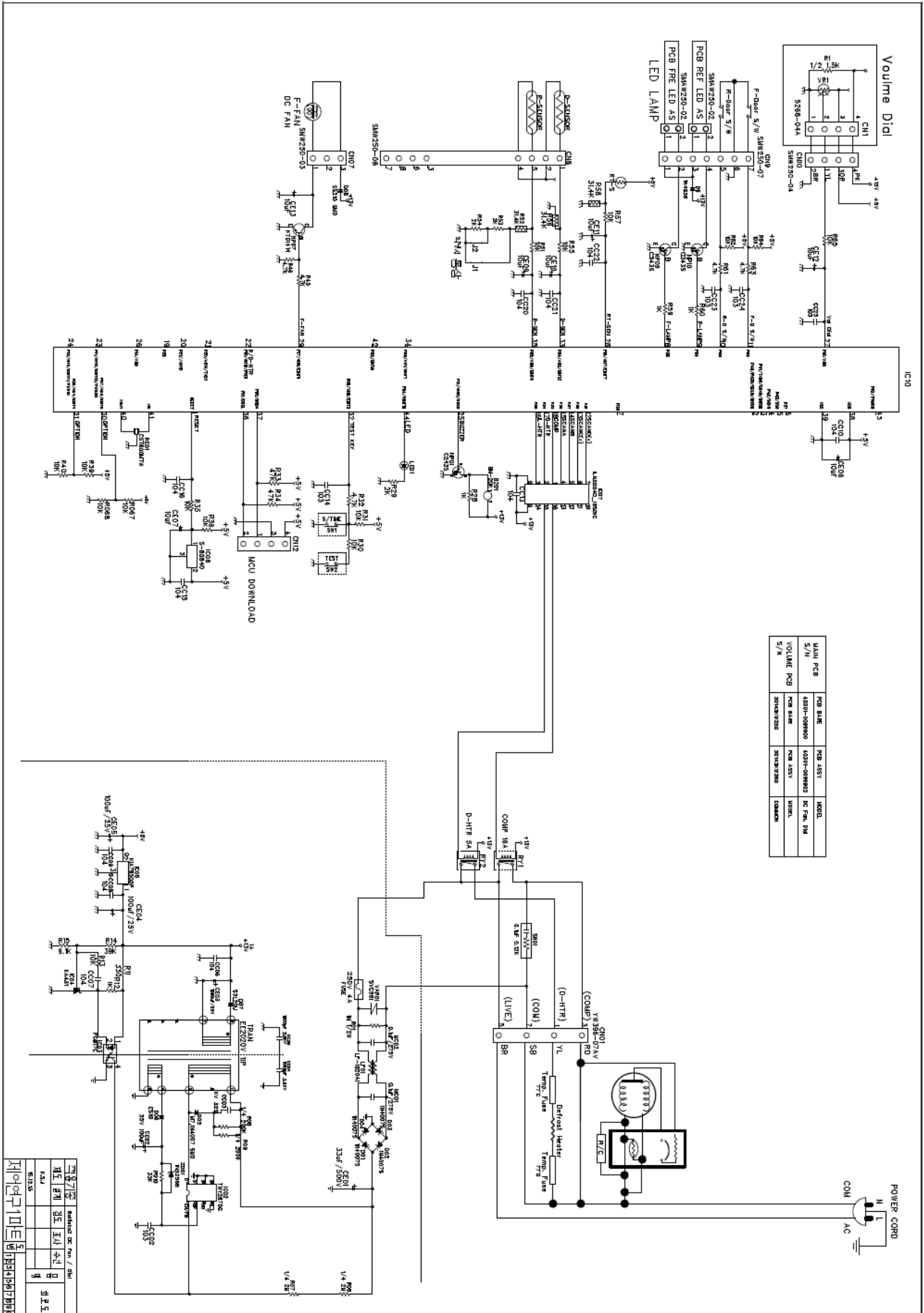
1.7. Main PCB Circuit Diagram



MAIN PCB S/N	PCB DATE	PCB REV	UNIT
43301-000702	43301-010006	AC FAI, DM	UNIT
VOLUME PCB S/N	PCB DATE	PCB REV	UNIT
43301-001008	43301-000700	COMMON	COMMON
43301-001009	43301-000700	COMMON	COMMON

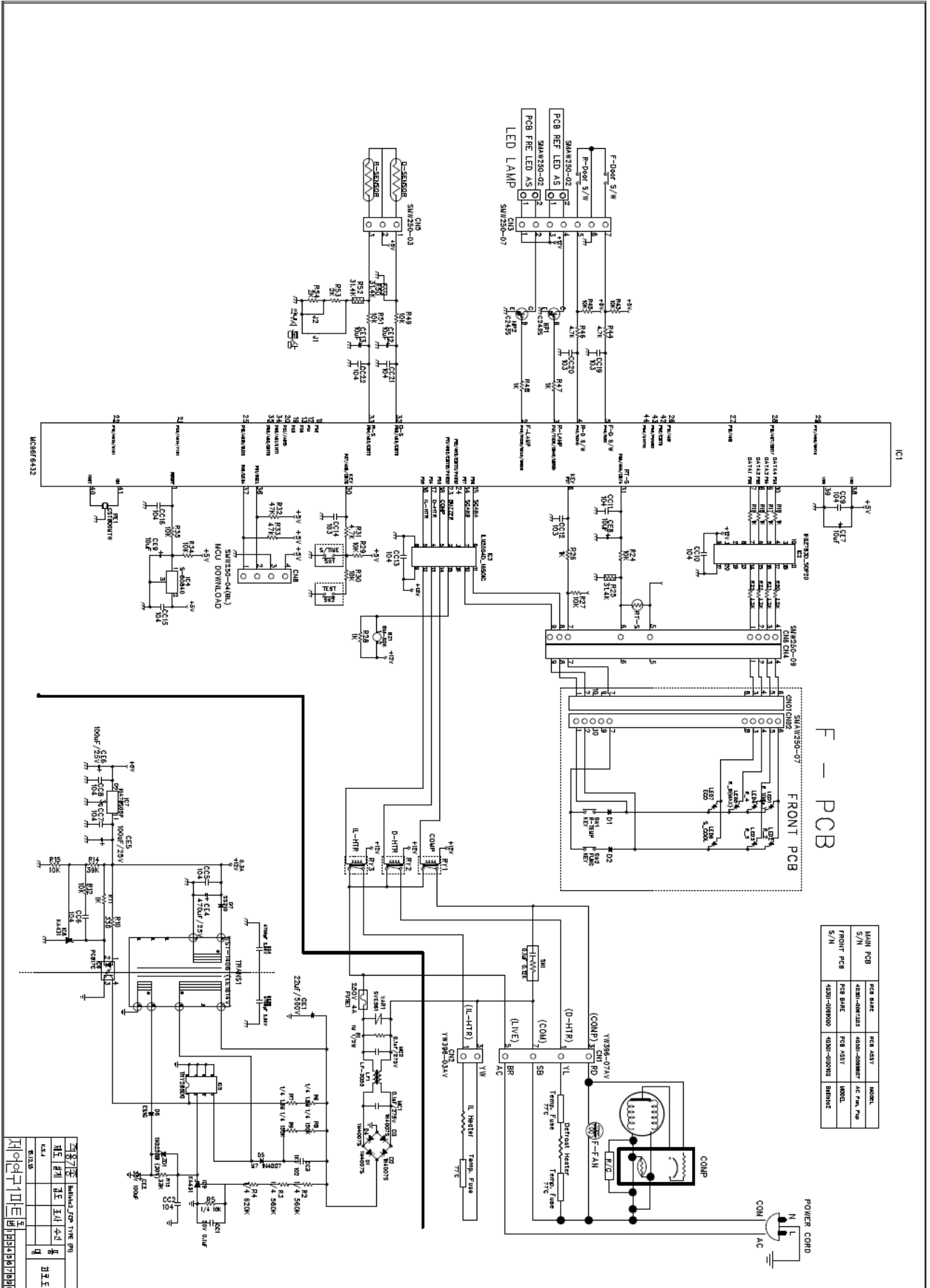
개발/검출	개발/검출	개발/검출	개발/검출
검토/검출	검토/검출	검토/검출	검토/검출
검토/검출	검토/검출	검토/검출	검토/검출
검토/검출	검토/검출	검토/검출	검토/검출

1.7. Main PCB Circuit Diagram



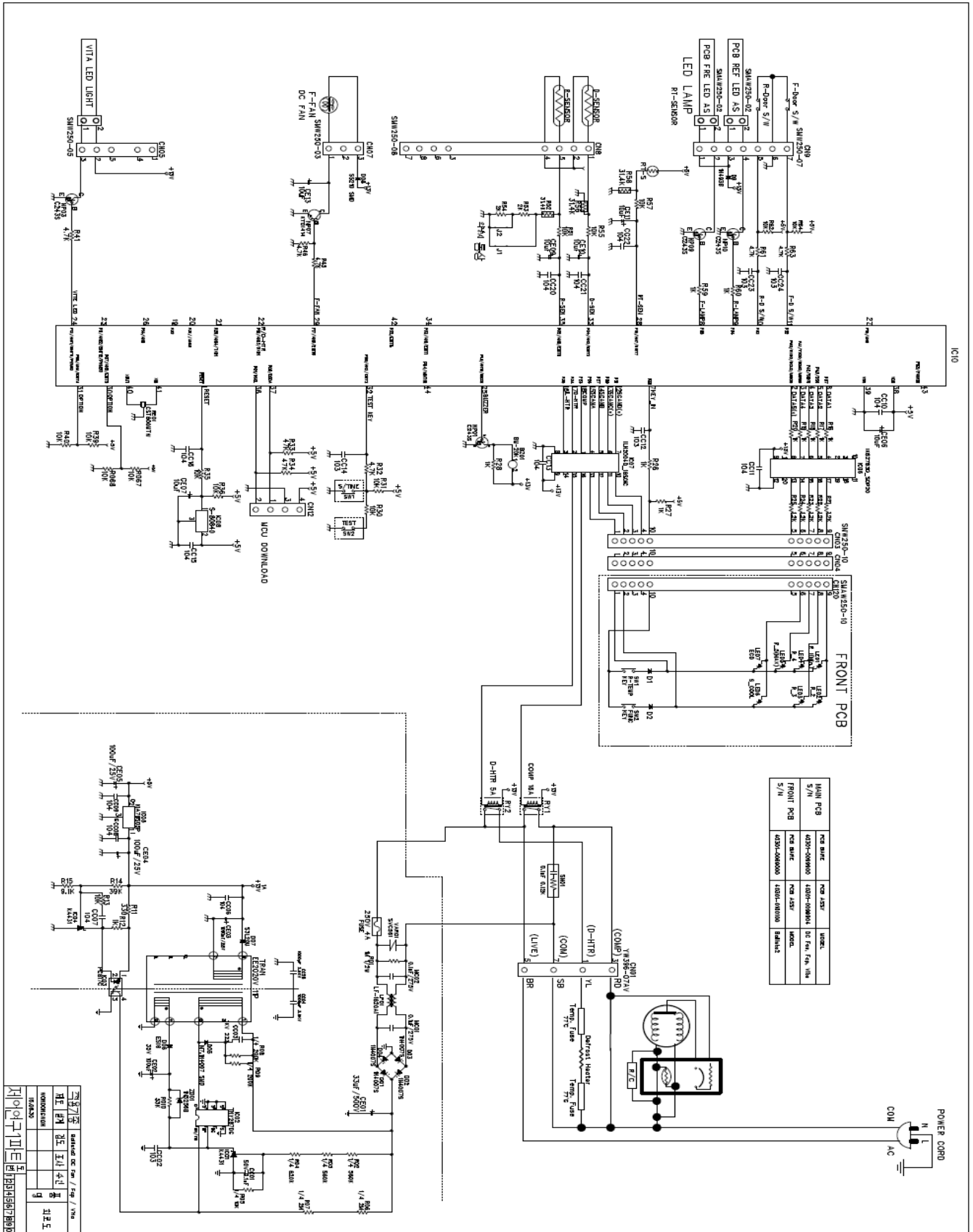
9-Dial(DC)

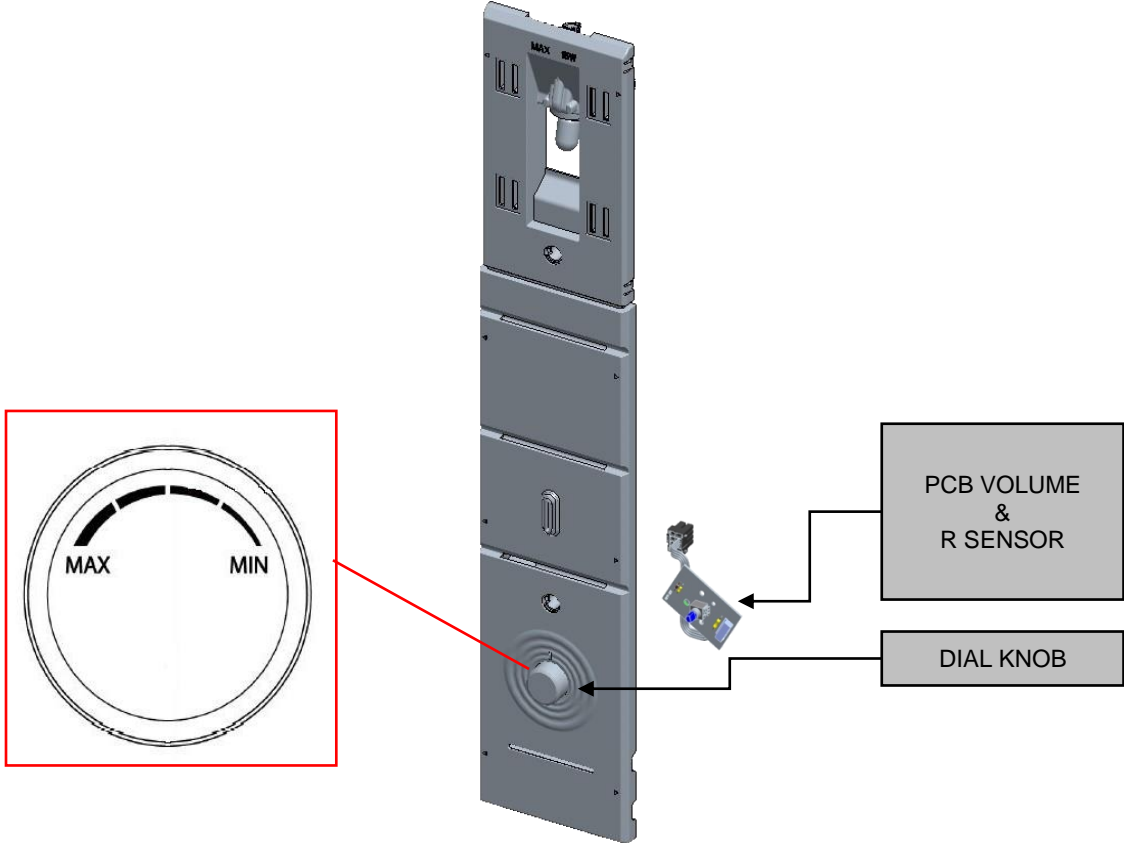
1.7. Main PCB Circuit Diagram



9-FCP(AC)

1.7. Main PCB Circuit Diagram

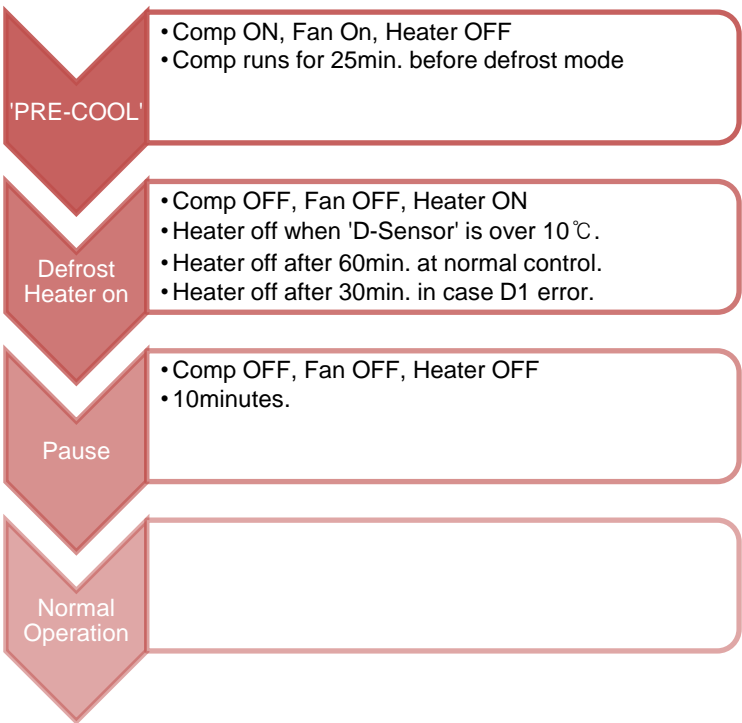


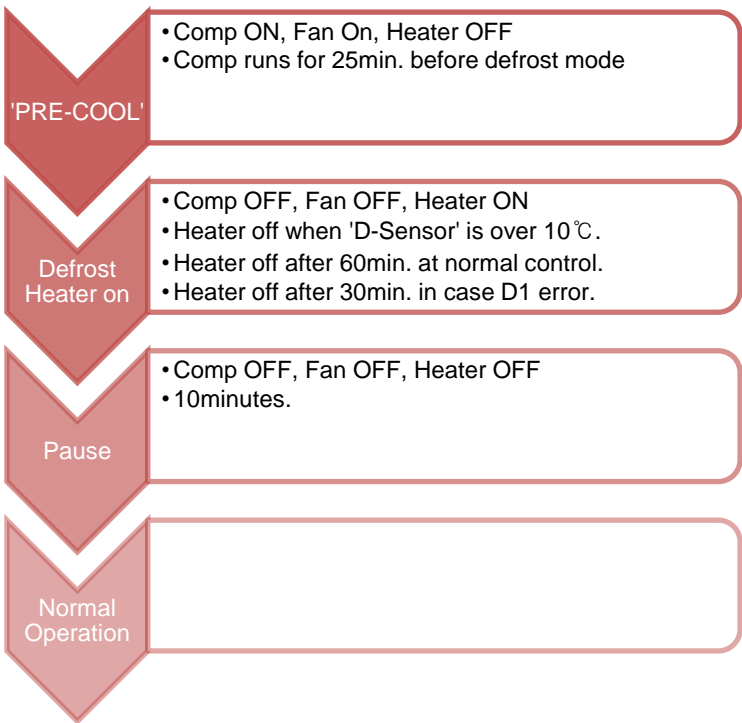
2-1. "PCB VOLUME" Control	
INPUT	CONTROL OBJECT
- Turn 'DIAL KNOB' on the 'COVER M/FLOW DUCT'.	-PCB Volume
<p>- Temperature is controlled by "PCB Volume" assembled with "Dial Knob". - 7step mode of successive temperature mode</p> <p><COVER M/FLOW DUCT AS: Air Duct Device in the Refrigerating Compartment></p> 	

2-1. "PCB VOLUME" Control	
INPUT	CONTROL OBJECT
- PCB Control Panel Button	-PCB Control Panel LED
<p>- Temperature is controlled by "PCB Control Panel Button" assembled on the refrigerator door. - 5 step mode of successive temperature mode</p> <div style="text-align: center; margin: 20px 0;"> </div> <p>※ Dial Display Rotation</p> <div style="text-align: center; margin: 20px 0;"> </div> <p>※ Function Display</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 20px 0;"> <div style="text-align: center;"> <p>cumulative lighting</p> <p>Super</p> </div> <div style="text-align: center;"> <p>Eco</p> </div> </div>	

2-2. Temperature Control of Refrigerator Compartment																																													
INPUT				CONTROL OBJECT																																									
- Turn 'DIAL KNOB' - R sensor				- COMPRESSOR - FAN																																									
<p>A. COMP and FAN will be controlled by the on/off condition of each mode.</p> <p>B. Temperature Difference of Refrigerator each step :</p> <table border="1"> <thead> <tr> <th>STEP</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>ON(°C)</td> <td>5.5</td> <td>4.4</td> <td>3.4</td> <td>2.3</td> <td>1.6</td> <td>0.5</td> <td>-0.6</td> </tr> <tr> <td>OFF(°C)</td> <td>-0.7</td> <td>-1.7</td> <td>-2.7</td> <td>-3.7</td> <td>-4.4</td> <td>-5.5</td> <td>-6.6</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>MIN</th> <th></th> <th></th> <th>MID</th> <th></th> <th></th> <th>MAX</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>C. Temperature of Refrigerator at Mid-'Dial Knob' OFF point : -3.7°C</p> <p>D. Refrigerator ON/OFF Temp. Difference: 6°C</p> <p>E. Temperature of Freezer Control -It will be only controlled by using "KNOB F LOUVER" in the Freezer Comaprtment.</p>								STEP	1	2	3	4	5	6	7	ON(°C)	5.5	4.4	3.4	2.3	1.6	0.5	-0.6	OFF(°C)	-0.7	-1.7	-2.7	-3.7	-4.4	-5.5	-6.6	MIN			MID			MAX							
STEP	1	2	3	4	5	6	7																																						
ON(°C)	5.5	4.4	3.4	2.3	1.6	0.5	-0.6																																						
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MIN			MID			MAX																																							

2-2. Temperature Control of Refrigerator Compartment												
INPUT			CONTROL OBJECT									
- PCB Control Panel Button - R sensor			- COMPRESSOR - FAN									
A. COMP and FAN will be controlled by the on/off condition of each mode.												
B. Temperature Difference of Refrigerator each step :												
STEP	1	2	3	4	5	Super						
ON(°C)	9.0	6.9	5.1	4.0	1.4	1.4						
OFF(°C)	2.4	0.4	-1.3	-2.4	-3.0	-3.0						
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>MIN</td> <td></td> <td>MID</td> <td></td> <td>MAX</td> <td>Super</td> </tr> </table>							MIN		MID		MAX	Super
MIN		MID		MAX	Super							
C. Temperature of Refrigerator at 'NOR' OFF point : -1.3°C												
D. Refrigerator ON/OFF Temp. Difference: 6.5°C												
E. Temperature of Freezer Control												
-It will be only controlled by using "PCB Control Panel Button" in the Freezer Comaprtnent.												

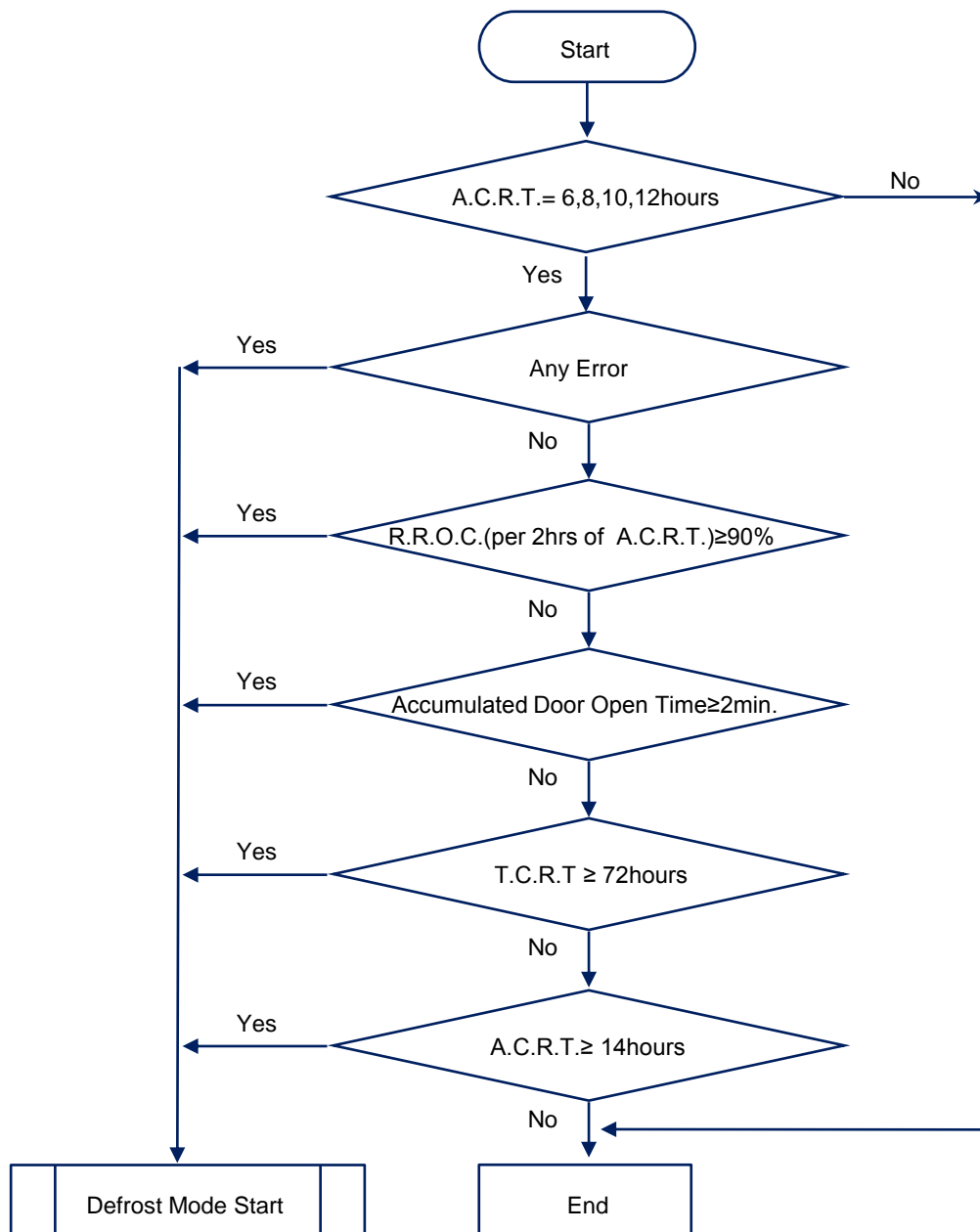
2-3. Defrost Mode	
INPUT	CONTROL OBJECT
<ul style="list-style-type: none"> - Accumulated Compressor Run Time - Running Time Ratio of Compressor - Accumulated Door Open Time 	<ul style="list-style-type: none"> - Compressor - F Fan - Defrost Heater
<p>A. Defrost Mode Operation condition</p> <p>(1) In case accumulated compressor run times: 6, 8, 10, 12 hours, - when there occur any errors: R1, D1, C1, RT, Door SW error etc. (Check "2-9. ERROR DISPLAY") - or, running rate of COMP (per 2hrs of accumulated operation time) is more than 90% - or, accumulated door open time is over 2 minutes</p> <p>(2) Even if the above condition is not satisfied, - defrost mode starts immediately when accumulated compressor run time is 14hrs. - total compressor running time (on time + off time) is 72hours.</p> <p>B. Normal Defrost Mode</p>  <pre> graph TD A["PRE-COOL • Comp ON, Fan ON, Heater OFF • Comp runs for 25min. before defrost mode"] --> B["Defrost Heater on • Comp OFF, Fan OFF, Heater ON • Heater off when 'D-Sensor' is over 10°C. • Heater off after 60min. at normal control. • Heater off after 30min. in case D1 error."] B --> C["Pause • Comp OFF, Fan OFF, Heater OFF • 10minutes."] C --> D["Normal Operation"] </pre> <p>C. Forced Defrost Mode</p> <ul style="list-style-type: none"> - How to start: (1) by press Door S/W for continuously and Control 'Dial Knob'(MIN -> MAX) 1 times. (2) or, by press 'Test Key' 3 times on Main PCB - If appliance has any error, Forces Defrost Mode don't start. - Process: same as Normal Defrost Mode except 'PRE-COOL' ※ Heater is supposed to be on Initial 30sec. even though the temp. at "D SENSOR" is over 10°C. (for TEST) - How to confirm: If Force Defrost Mode start, you can buzzer sound 	

2-3. Defrost Mode	
INPUT	CONTROL OBJECT
<ul style="list-style-type: none"> - Accumulated Compressor Run Time - Running Time Ratio of Compressor - Accumulated Door Open Time 	<ul style="list-style-type: none"> - Compressor - F Fan - Defrost Heater
<p>A. Defrost Mode Operation condition</p> <p>(1) In case accumulated compressor run times: 6, 8, 10, 12 hours, <ul style="list-style-type: none"> - when there occur any errors: R1, D1, C1, RT, Door SW error etc. (Check "2-9. ERROR DISPLAY") - or, running rate of COMP (per 2hrs of accumulated operation time) is more than 90% - or, accumulated door open time is over 2 minutes </p> <p>(2) Even if the above condition is not satisfied, <ul style="list-style-type: none"> - defrost mode starts immediately when accumulated compressor run time is 14hrs. - total compressor running time (on time + off time) is 72hours. </p> <p>B. Normal Defrost Mode</p>  <pre> graph TD A[PRE-COOL] --> B[Defrost Heater on] B --> C[Pause] C --> D[Normal Operation] </pre> <p>The flowchart illustrates the sequence of Normal Defrost Mode. It starts with 'PRE-COOL', followed by 'Defrost Heater on', then 'Pause', and finally 'Normal Operation'. Each stage is represented by a downward-pointing arrow on the left and a rounded rectangular box on the right containing specific operational details.</p> <ul style="list-style-type: none"> • Comp ON, Fan ON, Heater OFF • Comp runs for 25min. before defrost mode <p>'PRE-COOL'</p> <ul style="list-style-type: none"> • Comp OFF, Fan OFF, Heater ON • Heater off when 'D-Sensor' is over 10℃. • Heater off after 60min. at normal control. • Heater off after 30min. in case D1 error. <p>Defrost Heater on</p> <ul style="list-style-type: none"> • Comp OFF, Fan OFF, Heater OFF • 10minutes. <p>Pause</p> <p>Normal Operation</p>	
<p>C. Forced Defrost Mode</p> <ul style="list-style-type: none"> - How to start: <ol style="list-style-type: none"> (1) by press "TEMP" button for continuously and "FUNC" button 5 times. (2) or, by press 'Test Key' 3 times on Main PCB - If appliance has any error, Forces Defrost Mode don't start. - Process: same as Normal Defrost Mode except 'PRE-COOL' ※ Heater is supposed to be on Initial 30sec. even though the temp. at "D SENSOR" is over 10℃. (for TEST) - How to confirm: If Force Defrost Mode start, you can buzzer sound 	

2-3. Defrost Mode

D. Flow chart of How to Start Defrost Mode

- ※ A.C.R.T. : Accumulated Compressor Run Times
- ※ R.R.O.C. : Running Rate of Compressor
- ※ T.C.R.T. : Total Compressor Running Time (on time + off time)



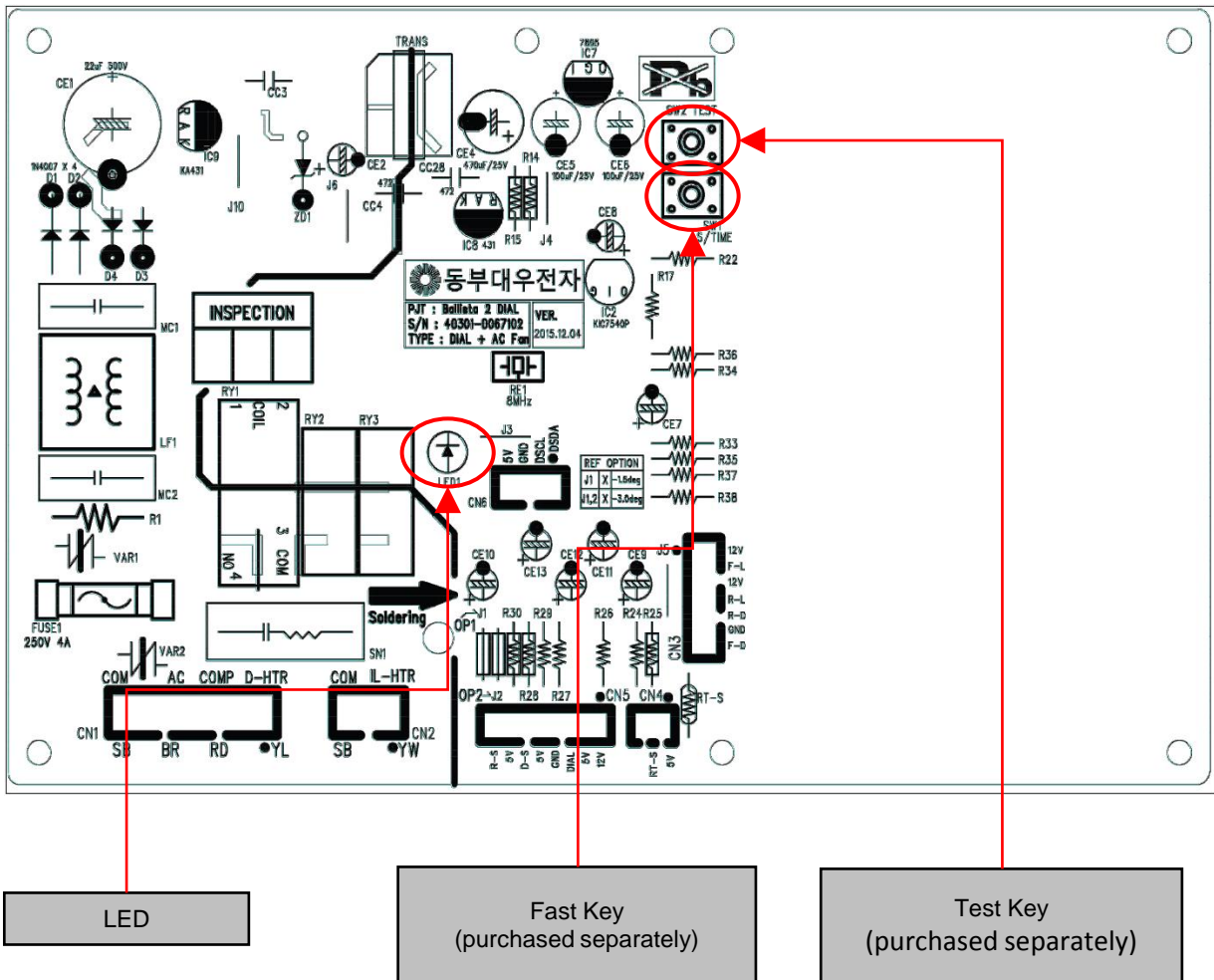
2-4. Function of Low Ambient Temperature (RT)	
INPUT	CONTROL OBJECT
RT	- COMP
<p>A. Condition of LOW RT</p> <ul style="list-style-type: none"> - RT sensor below 21 °C - When the RT sensor is over 21 °C, the system comes to be "General Operation Mode". - When the RT sensor is between 20.5°C to 21°C, the system keeps the previous mode. <p>B. Control</p> <ul style="list-style-type: none"> - When the temp of RT sensor is between 13°C to 21°C, COMP on temp is 1.5°C DOWN and off Temp is 2.0°C UP - When the temp of RT sensor is below 13°C, COMP on temp is 2.5°C DOWN and off Temp is 1.5°C UP 	

2-5. Prevention of Compressor Restart	
INPUT	CONTROL OBJECT
N/A	COMP
<p>It takes several minutes to protect Compressor:</p> <ul style="list-style-type: none"> - 6 minutes after Comp off 	

2-6. Buzzer Sound	
INPUT	CONTROL OBJECT
<ul style="list-style-type: none"> - Forced Defrost Mode start - Door Switch - Initial Power Input 	Buzzer
<p>A. When Forced Defrost Mode start, the buzzer rings 3 times. B. After 2 seconds power's on, the buzzer rings 3 times. C. At Short Circuit Test, the buzzer rings 1 times. D. When door opens, the buzzer rings every 1 minute for 5 minutes.</p>	

2-7. Time Saving Function	
INPUT	CONTROL OBJECT
"FAST KEY"	
<p>A. How to Save</p> <ul style="list-style-type: none"> - 1 min : Click FAST KEY one time on MAIN PCB. - 30 min : If you press FAST KEY continuously, you can reduce 30 minutes on each 2.5 seconds. <p>B. Example for usage: when reduce test time</p>	

MAIN PCB



2-7. Time Saving Function

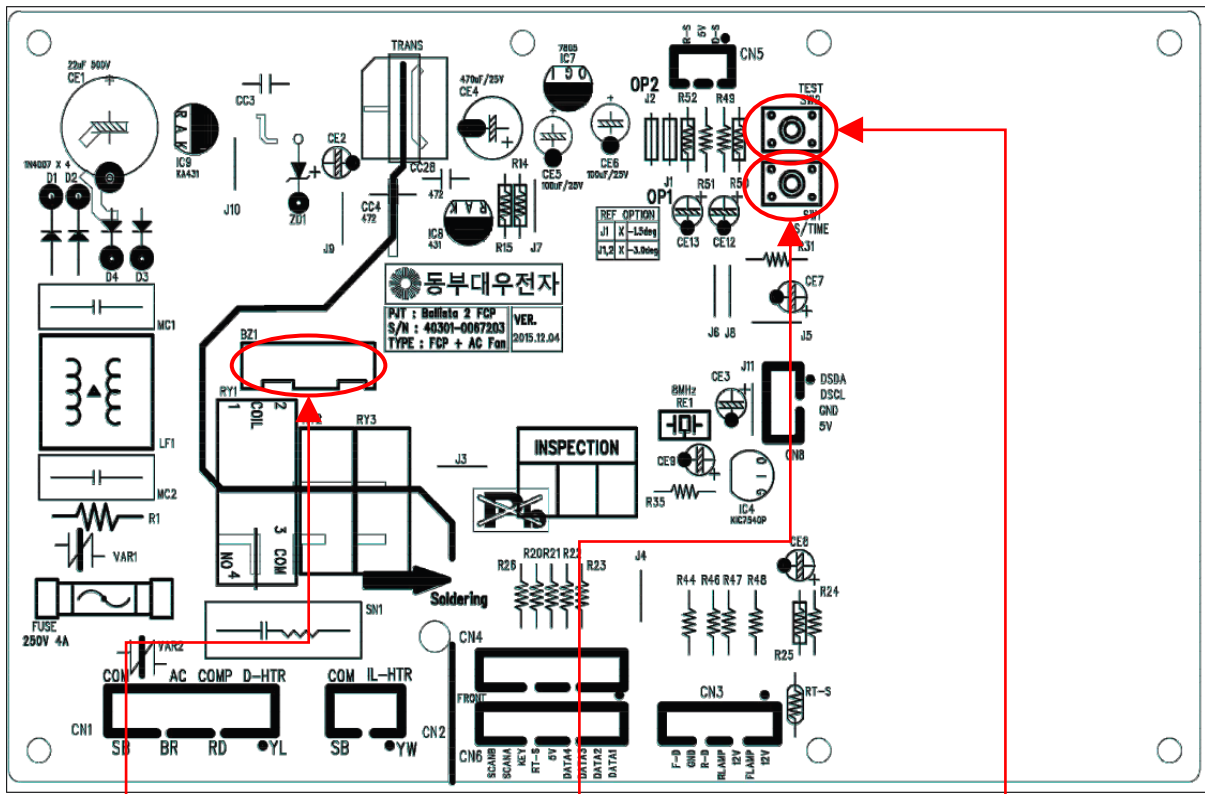
INPUT	CONTROL OBJECT
"FAST KEY"	Buzzer

A. How to Save

- 1 min : Click FAST KEY one time on MAIN PCB.
- 30 min : If you press FAST KEY continuously, you can reduce 30 minutes on each 2.5 seconds with buzzer.

B. Example for usage: when reduce test time

MAIN PCB



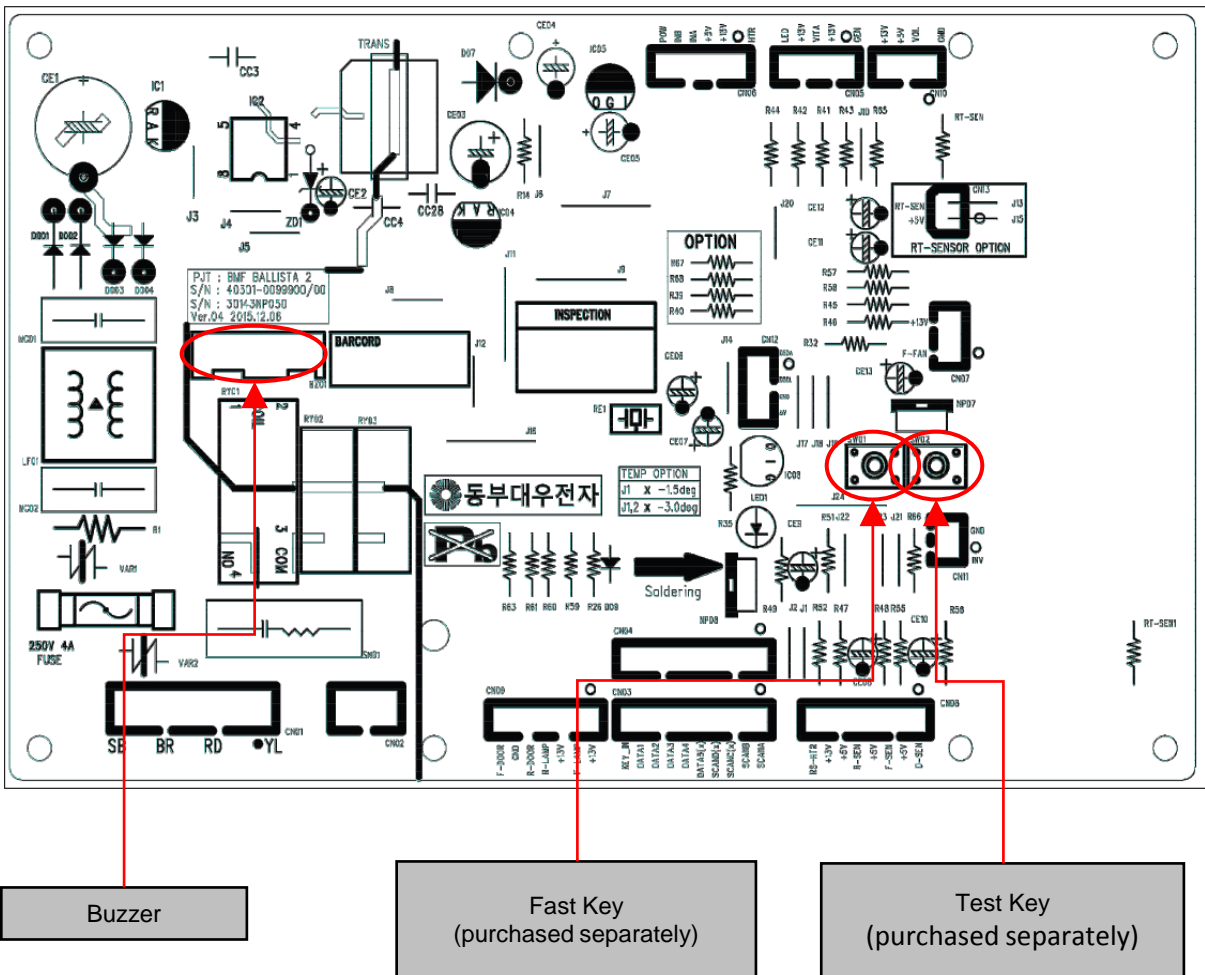
Buzzer

Fast Key
(purchased separately)

Test Key
(purchased separately)

2-7. Time Saving Function	
INPUT	CONTROL OBJECT
"FAST KEY"	Buzzer
<p>A. How to Save</p> <ul style="list-style-type: none"> - 1 min : Click FAST KEY one time on MAIN PCB. - 30 min : If you press FAST KEY continuously, you can reduce 30 minutes on each 2.5 seconds with buzzer. <p>B. Example for usage: when reduce test time</p>	

MAIN PCB



2-8. Control of R-sensor OFF Point

INPUT	CONTROL OBJECT
"J1", "J2" On Main PCB	Control Resistance of R sensor OFF Point

- When the refrigeration of refrigerator is poor or weak though Fan and COMP are working continuously, the following actions are recommended for service.

(1) Resistance (R30) : Default resistance (31.4Kohms)

(2) Resistance (R30+R31) :

Cut the "J1" off to reduce Default R sensor OFF Point by 1.5°C. (2Kohms up)

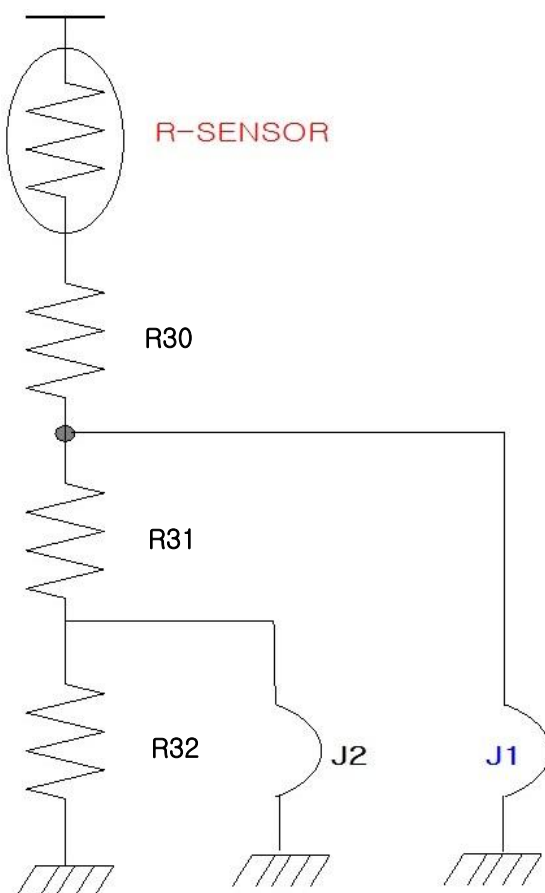
(3) Resistance (R30+R31+R32) :

Cut the "J2" off additionally to reduce Default R sensor OFF Point by 3.0°C. (total 4Kohms up)

※ R30 = R-SENSOR OFF point

R30 + R31 = R-SENSOR OFF point - 1.5°C

R30 + R31 + R32 = R-SENSOR OFF point - 3°C



2-8. Control of R-sensor OFF Point

INPUT	CONTROL OBJECT
"J1", "J2" On Main PCB	Control Resistance of R sensor OFF Point

- When the refrigeration of refrigerator is poor or weak though Fan and COMP are working continuously, the following actions are recommended for service.

(1) Resistance (R52) : Default resistance (31.4Kohms)

(2) Resistance (R53+R54) :

Cut the "J1" off to reduce Default R sensor OFF Point by 1.5°C. (2Kohms up)

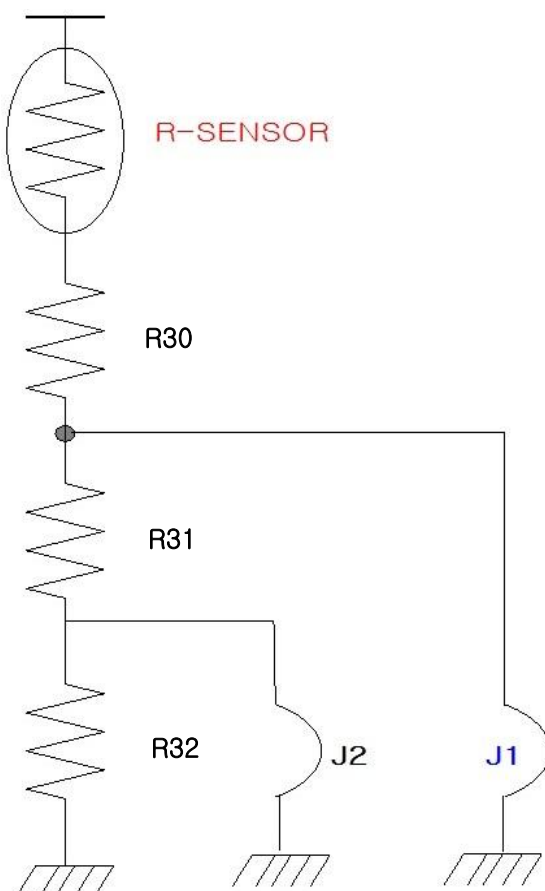
(3) Resistance (R52+R53+R54) :


Cut the "J2" off additionally to reduce Default R sensor OFF Point by 3.0°C. (total 4Kohms up)

※ R52 = R-SENSOR OFF point

R52 + R53 = R-SENSOR OFF point - 1.5°C

R52 + R53 + R54 = R-SENSOR OFF point - 3°C



2-9. Error Display																																						
INPUT	CONTROL OBJECT																																					
Sensor Error	LED Lamp																																					
<p>- ERROR DISPLAY</p> <ul style="list-style-type: none"> - If appliance has any errors, LED on the Main PCB is flickering. - If the appliance is normal (no error), LED IS off. <p>A. 'R1' ERROR</p> <p>: It happens when R-Sensor is OPEN or SHORT.</p> <p>(1) LED DISPLAY: Shortly flickering(0.3sec.) 1 times.</p> <p>(2) CONTROL:</p> <p>Controlled by the following condition of RT</p> <table border="1"> <thead> <tr> <th>RT sensor TEMP (unit: °C)</th> <th>~13</th> <th>~21</th> <th>~30</th> <th>~40</th> <th>~43</th> <th>43~</th> <th>RT-S Error</th> </tr> </thead> <tbody> <tr> <td>COMP. Operating ON/OFF TIME (unit:)</td> <td>7/50</td> <td>10/35</td> <td>25/35</td> <td>30/26</td> <td>50/15</td> <td>50/15</td> <td>30/26</td> </tr> </tbody> </table> <p>※ If 'RT ERROR' happens at the same time, "COMP. ON/OFF Operating Time" is 30min/26min.</p> <p>(3) RELEASE: When R-Sensor is working normally.</p> <p>B. 'RT' ERROR</p> <p>: It happens when RT-Sensor is OPEN or SHORT.</p> <p>(1) LED DISPLAY: Shortly flickering(0.3sec.) 2 times.</p> <p>(2) CONTROL: Delete the conditions of 'RT-sensor Control' and operate normally.</p> <p>(3) RELEASE: When RT-Sensor is working normally.</p> <p>C. 'd1' ERROR</p> <p>: It happens when D-Sensor is OPEN or SHORT.</p> <p>(1) LED DISPLAY: Shortly flickering(0.3sec.) 3 times.</p> <p>(2) CONTROL: Return to next limit defrost time (30 min)</p> <p>(3) RELEASE: When D-Sensor is working normally.</p> <p>D. 'DR' / 'DF' ERROR</p> <p>: It happens when the system senses R/F door opens more than 1 hour.</p> <p>(1) LED DISPLAY: Shortly flickering(0.3sec.) 4 times / 5 times.</p> <p>(2) CONTROL: Delete function relating to R/F door switch sensing</p> <p>(3) RELEASE: When sensing close from R/F door S/W.</p> <p>E. 'F3' ERROR</p> <p>: It happens when Defrost Heater off after 60min.</p> <p>(1) LED DISPLAY: Shortly flickering(0.3sec.) 6 times.</p> <p>(2) CONTROL: Skip the step 'PRE-COOL' of Defrost Mode.</p> <p>(3) RELEASE: Defrost Heater off by D-Sensor.</p> <p>※ When pusing 'TEST KEY' on the main PCB, LED is long(1.0sec.) flickering several times. ex. 'Forced Defrost Mode:' long flickering 2 times</p> <div style="text-align: right; margin-top: 20px;">  </div> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>CODE</th> <th>LED</th> <th>ERROR</th> </tr> </thead> <tbody> <tr> <td>R1</td> <td>1time</td> <td>R sensor</td> </tr> <tr> <td>RT</td> <td>2times</td> <td>RT sensor</td> </tr> <tr> <td>d1</td> <td>3times</td> <td>D sensor</td> </tr> <tr> <td>DR</td> <td>4times</td> <td>DR Switch</td> </tr> <tr> <td>DF</td> <td>5times</td> <td>DF Switch</td> </tr> <tr> <td>F3</td> <td>6times</td> <td>Defrost</td> </tr> </tbody> </table> <div style="margin-left: auto; margin-right: auto; margin-top: 10px;"> <p>- To Confirm Errors: Check LED on the main PCB</p> <p>- The Priorities of Error : R1→RT→D1→DR→DF→F3</p> </div>		RT sensor TEMP (unit: °C)	~13	~21	~30	~40	~43	43~	RT-S Error	COMP. Operating ON/OFF TIME (unit:)	7/50	10/35	25/35	30/26	50/15	50/15	30/26	CODE	LED	ERROR	R1	1time	R sensor	RT	2times	RT sensor	d1	3times	D sensor	DR	4times	DR Switch	DF	5times	DF Switch	F3	6times	Defrost
RT sensor TEMP (unit: °C)	~13	~21	~30	~40	~43	43~	RT-S Error																															
COMP. Operating ON/OFF TIME (unit:)	7/50	10/35	25/35	30/26	50/15	50/15	30/26																															
CODE	LED	ERROR																																				
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RT	2times	RT sensor																																				
d1	3times	D sensor																																				
DR	4times	DR Switch																																				
DF	5times	DF Switch																																				
F3	6times	Defrost																																				

2-9. Error Display																	
INPUT	CONTROL OBJECT																
PCB Control Panel Buttons on Door	LED DISPLAY																
<p>- Error Check Mode</p> <p>(1) How to start: Push "FUNC" button for continuously and "TEMP" button 5 times .</p> <p>(2) What happen: LED "ECO" flickering, and if any errors occur, the related LEDs on.</p> <p>(3) CANCEL: Push "TEMP" button 1 time, or wait 4 minutes.</p> <p>※ After operations back to normal, the displays come to be reset.</p> <p>A. "R1" ERROR</p> <p>: It happens when R-Sensor is OPEN or SHORT.</p> <p>(1) LED DISPLAY: LED "1" flickering (OPEN) / LED "1" on (SHORT)</p> <p>(2) REACTION: Controlled by the following condition of RT</p> <table border="1"> <thead> <tr> <th>RT sensor TEMP (unit: °C)</th> <th>~13</th> <th>~21</th> <th>~30</th> <th>~40</th> <th>~43</th> <th>43~</th> <th>RT-S Error</th> </tr> </thead> <tbody> <tr> <td>COMP. Operating ON/OFF TIME (unit:</td> <td>7/50</td> <td>10/35</td> <td>25/35</td> <td>30/26</td> <td>50/15</td> <td>50/15</td> <td>30/26</td> </tr> </tbody> </table> <p>※ If 'RT ERROR' happens at the same time, "COMP. ON/OFF Operating Time" is 30min/26min.</p> <p>(3) RELEASE: When R-Sensor is working normally.</p> <p>B. "RT" ERROR</p> <p>: It happens when RT-Sensor is OPEN or SHORT.</p> <p>(1) LED DISPLAY: LED "2" flickering (OPEN) / LED "2" on (SHORT).</p> <p>(2) REACTION: Delete the conditions of RT-sensor Control and operate normally.</p> <p>(3) RELEASE: When RT-Sensor is working normally.</p> <p>C. "d1" ERROR</p> <p>: It happens when D-Sensor is OPEN or SHORT.</p> <p>(1) LED DISPLAY: LED "3" flickering (OPEN) / LED "3" on (SHORT).</p> <p>(2) REACTION: Return to next limit Defrost Time (30 min).</p> <p>(3) RELEASE: When D-Sensor is working normally.</p> <p>D. "DR" / "DF" ERROR</p> <p>: It happens when the system senses R/F door opens more than 1 hour.</p> <p>(1) LED DISPLAY: LED "4 / 5" on.</p> <p>(2) REACTION: Delete function relating to R/F door switch sensing.</p> <p>(3) RELEASE: When sensing close from R/F door S/W.</p> <p>E. 'F3' ERROR</p> <p>: It happens when Defrost Heater off after 60min.</p> <p>(1) LED DISPLAY: : LED "Super" on.</p> <p>(2) CONTROL: Skip the step 'PRE-COOL' of Defrost Mode.</p> <p>(3) RELEASE: Defrost Heater off by D-Sensor.</p>		RT sensor TEMP (unit: °C)	~13	~21	~30	~40	~43	43~	RT-S Error	COMP. Operating ON/OFF TIME (unit:	7/50	10/35	25/35	30/26	50/15	50/15	30/26
RT sensor TEMP (unit: °C)	~13	~21	~30	~40	~43	43~	RT-S Error										
COMP. Operating ON/OFF TIME (unit:	7/50	10/35	25/35	30/26	50/15	50/15	30/26										

3-1. Door Switch

No	Procedure	No	Procedure
1	<i>Inuput a thin driver in the upper part as above picture. And lift up 'Door Switch' carefully.</i>	3	<i>Disconnect the wire housing.</i>
2	<i>Inuput a thin driver in the lower part as above picture. And lift up 'Door Switch' carefully.</i>		

3-2. Cover Multi-Flow Duct As (in Fresh food Compartment)

No	Procedure	No	Procedure
1	<p>Unlock the lamp window</p> <p>(1) Push the window right side</p> <p>(2) Lever two window lock with flat driver</p>	4	<p>Unlock the 'COVER M/FLOW DUCT'</p> <p>(1) Check the marks of locking position on 'Cover'.</p> <p>(Number of the marks are model dependent)</p> <p>(2) Push the 'cover' inside and Unlock.</p>
2	<p>Open window turning on the axis 'A'</p>	5	<p>Disconnect the Lamp & Sensor wire housing.</p>
3	<p>Remove two screw cap with flat driver.</p> <p>Unscrew 2 points</p>		

3-3. Louver F As (in Frozen Food Compartment)

No	Procedure	No	Procedure
1	Unscrew to disassemble the 'Louver F As' from Freezer.	4	Unscrew to disassemble as each component part.
2	Remove the 'Louver F As' pulling the top side.	5	Unlock carefully. (especially, inside 3 locks)
3	Disconnect Fan motor wire housing.		
		※Default position of 'KNOB F' is 'MID'	

3-4. DOOR F/R

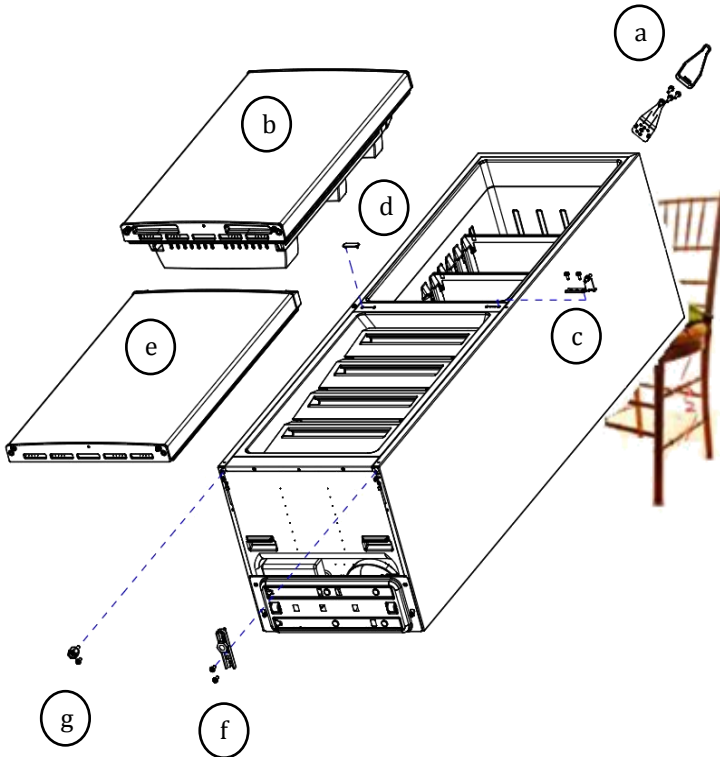
No	Procedure	No	Procedure
1	Tilt down the appliance to the rear.	4	Remove door in fresh food compartment. And unscrew middle hinge. ※ Don't forget the washer for middle hinge.
2	Lift up top cover hinge to remove.	5	Lift up middle cover hinge to remove.
3	Unscrew and remove top hinge.		

3-4. DOOR F/R

No	Procedure	No	Procedure
6	Unscrew and remove under hinge. ※ Don't forget the washer for under hinge. ※ The washer for under hinge's bigger than middle one.	7	Turn the 'Adjusting Leg (Left)' CCW and Remove.
		8	Remove door in frozen food compartment.

4. How To Change Door Position

Features are model dependent (Below is RN-271 model)



1-1> Tilt down the appliance to the rear.
(Watch out for "Pipe Wire Condensor" damage.)

1-2> Disassemble following parts in order.

- 'Top Cover Hinge' and 'Top Hinge'(a)
- 'Refrigerator Door'(b)
- 'Middle Hinge'(c)
- 'Middle Cover Hinge'(d)
- 'Freezer Door'(e)
- 'Under Hinge'(f)
- 'Adjusting Leg '(g)

1-3> Move following 'Door Accessories' in the opposite position:

- 'Cover Bushings'(i)
- 'Door Stoppers'(j)

1-4> Change the position of following parts each other and assemble them:

'Adjusting Leg '(g) & 'Under Hinge'(f)

1-5> Level and assemble the 'Freezer Door'(e)

1-6> Change the position of following parts each other and assemble them:

'Middle Cover Hinge'(d) & 'Middle Hinge'(c)

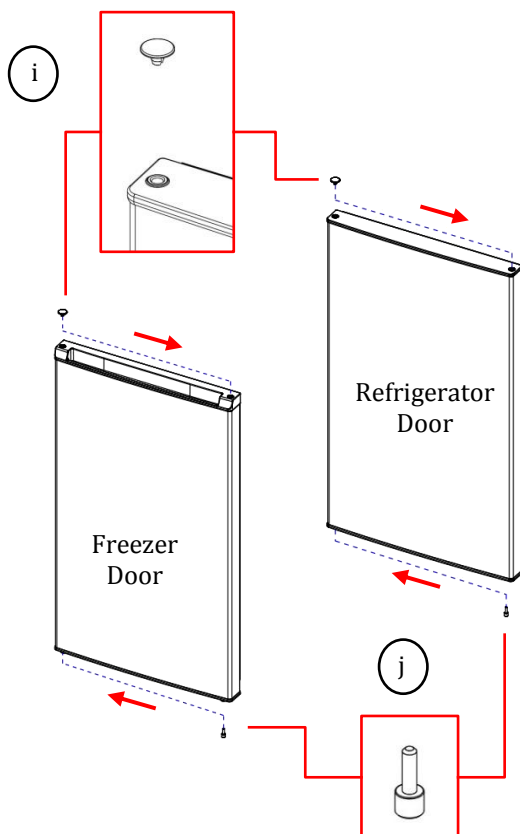
1-7>

Level and assemble the 'Refrigerator Door'(b).

1-8>

Assemble following parts on the opposite side:

'Top Cover Hinge' and 'Top Hinge'(a)



5-1. Safety Warning (R-600a Refrigerant Models Only)












This appliance contains a certain amount of isobutane refrigerant (R600a) a natural gas with high environmental compatibility that is, however, also combustible.

When transporting and installing the appliance, care should be taken to ensure that no parts of the refrigerating circuit are damaged.

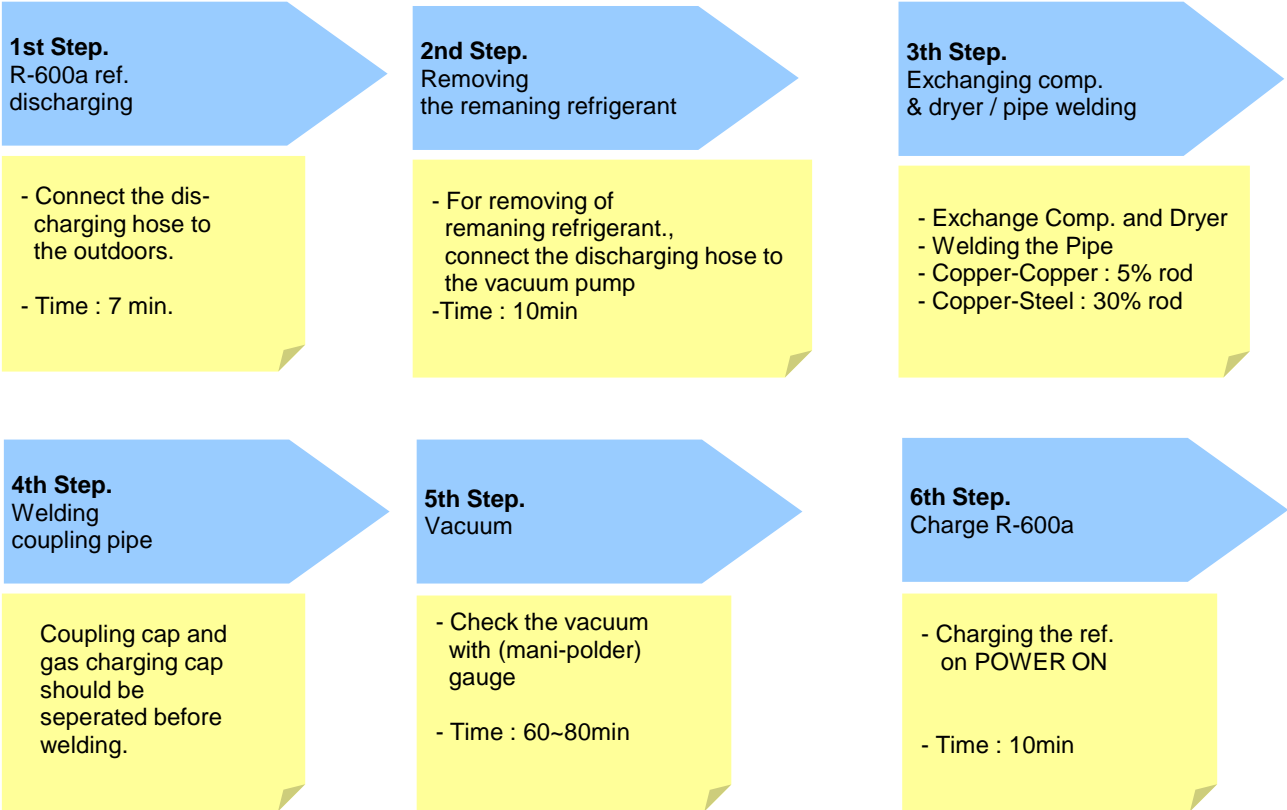
Refrigerant squirting out of the pipes could ignite or cause an eye injury. If a leak is detected, avoid any naked flames or potential sources of ignition and air the room in which appliance is standing for several minutes.

- In order to avoid the creation of a flammable gas-air mixture if a leak in the refrigerating circuit occurs, the size of the room in which the appliance may be sited depends on the amount of refrigerant used. The room must be 1m³ in size for every 8g of R600a refrigerant inside the appliance. The amount of refrigerant is shown on the identification plate inside the appliance.
- Never start up an appliance showing any signs of damage. If in doubt, consult your dealer.




5-2. Tools

<p>1. R-600a ref. Can</p> 	<p>2. Can adapter</p> 	<p>3. Pinch Plier</p> 
<p>4. Ref. discharging hose</p> 	<p>5. Vacuum pump</p> 	<p>6. Welder</p> 
<p>7. Coupling Pipe</p> 	<p>8. Leakage Tester</p> 	<p>9. Electronic-scale</p> 


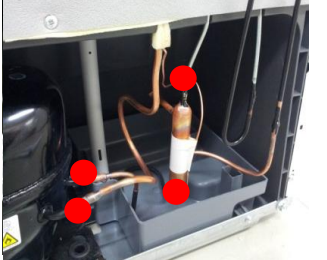

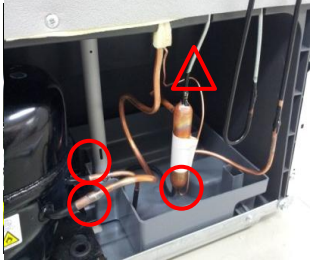

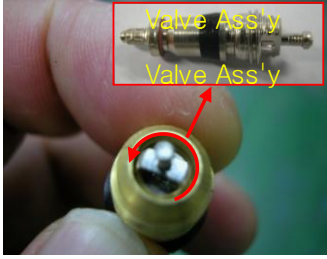
5-3. Process Summary



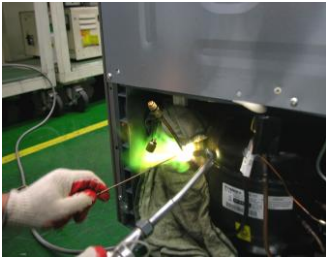



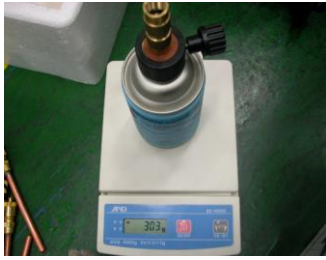
5-4. In Detail Precess

NO.	SVC process	Image	Details
1	Connecting the pinch-plier & discharging hose		<ol style="list-style-type: none"> 1. Connect the discharging hose to the pinch-plier 2. The outlet of discharging hose should be placed to the outdoor(window)
2	Fixing the pinch-plier & charging pipe		<ol style="list-style-type: none"> 1. Fix the pinch-plier to the compressor charging pipe. 2. Pinch-plier should not be moving freely. <p>※ If that is moving freely, it would cause fire/explosion as leakage gas in the room.</p>
3	Discharging the R-600a ref.		<ol style="list-style-type: none"> 1. Discharge the R-600a ref. to outdoor. [Befor connecting the vacuum pump] <p>※ It should have enough time more than 7 minutes to discharge.</p>


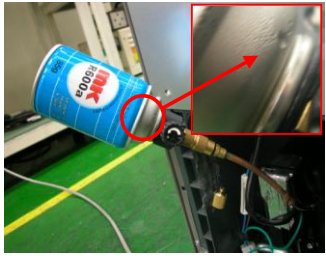


5. How To Charge R-600a Refrigerant

NO.	SVC process	Image	Details
4	Removing the remaining ref.		<p>1. And then, connect the vacuum pump to the outlet of discharging hose</p> <p>※ Vacuum pump should be placed at the outdoor where is able to clear air easily.</p> <p>※ It should have enough time more than 10 minutes to discharge.</p>
5	Removing the pinch-plier & pipe		<p>1. Disassemble the each pipe (Del-pipe, Suc-pipe, Capi-pipe, Dryer & Hot-pipe)</p> <p>※ Caution ; A part is easily damaged by flame so that disassembly should be done carefully.</p>
6	Exchanging comp & dryer		<p>1. Change the comp. & dryer.</p> <p>※ You should check the comp. spec. and assemble correctly.</p>
7	Welding	 	<p>1. Weld the each pipe.</p> <p>※ ○ Copper-Copper welding - 5% rod △ Copper-Steel welding - 35% rod</p>
8	Disassembly of charging valve (Coupling pipe)		<p>1. Decap the coupling pipe cap and disassemble the valve ass'y.</p> <p>※ If you don't disassemble, the coupling rubber would be melted.</p>

5. How To Charge R-600a Refrigerant

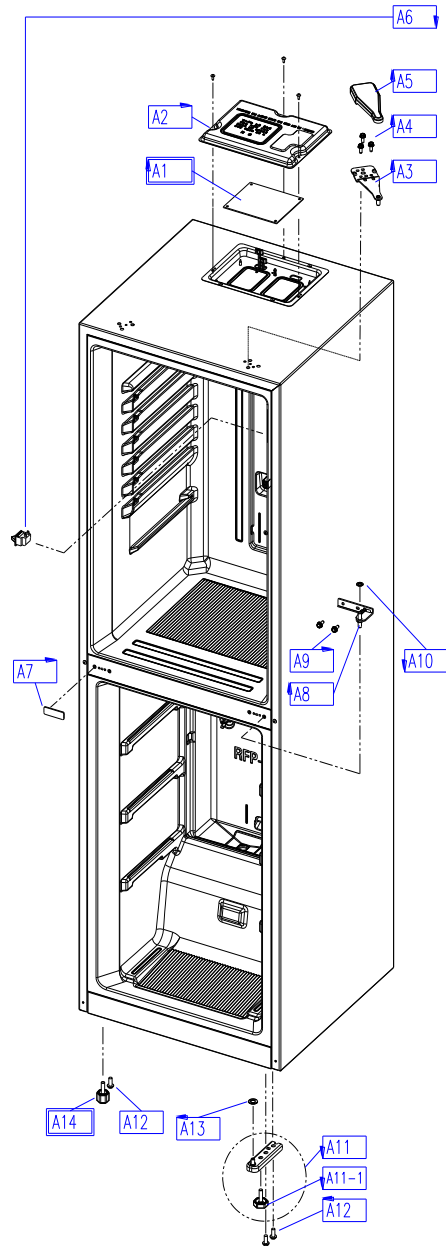
NO.	SVC process	Image	Details
9	Coupling pipe welding		<p>1. Weld after inserting the coupling pipe to the compressor.</p> <p>※ Use the wet cloth for preventing the other part of machinery-room from damage.</p>
10	Valve reass'y & guage connecting		<p>1. Reassemble the valve ass'y with coupling pipe to clockwise.</p> <p>2. Connect the blue hose of the guage to the coupling pipe and the yellow hose to the vacuum pump.</p> <p>3. Open the blue guage lever and start the vacuum pump</p>
11	Vacuum		<p>1. Be vacuumed the cycle with pump.</p> <p>※ Time : 60~80min</p> <p>=> If the vacuum time is less than 60min, ref. COP & air coolong would be weak.</p>
12	Check		<p>1. Check the guage : -76cmHg</p> <p>※ If the cycle is not vacuumed, it would be leak.</p>
13	Adjusting the amounts of refrigerants (R-600a can)		<p>1. Check the amounts of R-600a can with scale and discharge the surplus ref.</p> <p>※ Discharging is surely done at the outdoor where is able to clear air.</p> <p>※ Tip of adjusting.</p> <ul style="list-style-type: none"> - Can total weight :160g(Can 75g+Ref. 85g) - Adapter : 145g <p>=> Total : 305g</p> <ul style="list-style-type: none"> - The amounts of charging : 79g <p>=> Discharging : 6g => Total : 299g</p>

5. How To Charge R-600a Refrigerant

NO.	SVC process	Image	Details
14	Connecting of coupling pipe & adapta		<ol style="list-style-type: none"> 1. Conect can adapter to the coupling pipe. 2. Charge the ref. with open lever slowly. <p>※ Refrigerant should never leak in the room.</p>
15	Charging		<ol style="list-style-type: none"> 1. On the power of refrigerator and then start to charge the ref. (10min) <p>※ Charge the ref. until going out the water vapour condensing on the can outlet.</p>
16	Leakage Test		<ol style="list-style-type: none"> 1. Check the leakage. <p>※ You must rework from Step.1 when the leakage is detected.</p>
17	Finish		<ol style="list-style-type: none"> 1. Clean and clear around the machinery room when the service is finished. 2. Assemble the machinery room cover.

6. PART LIST

6-1. Cabinet Compartment

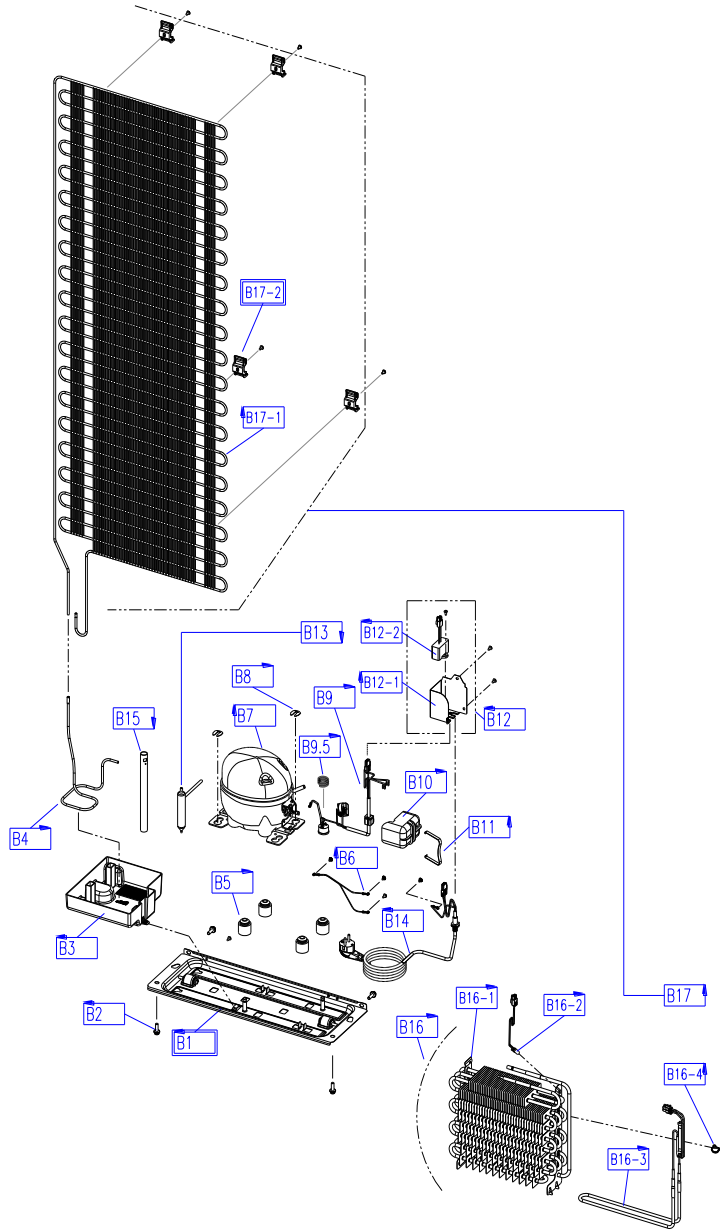


NO	PART-CODE	PART NAME	SPEC.	Q'ty
				RN-53*
A1	30143KW0C0	PCB MAIN AS	RFP-301 A++(VE)	1
	30143KW080		RFP-301 A++	
A2	3001416600	COVER M/PCB BOX AS	RFP-241/301(VE), SECC (WHITE)	1
	3001416610		RFP-241/301(VE), SECC (SILVER)	
	3001416620		RFP-241/301(VE), SECC (T/SILVER)	
	3001416630		RFP-241/301(VE), SECC (BLACK)	
	3001416640		RFP-241/301(VE), SECC (BACK COATING)	
	301149CB00		RFP-241/301, SECC (WHITE)	
	301149CB10		RFP-241/301, SECC (GRAY)	
301149CB20		RFP-241/301, SECC (BLACK)		
A3	3012937900	HINGE *T AS	RFP-301	1
A4	3016001250	SPECIAL BOLT *M	6X15 SWCH22A(WH)	3
A5	3001448500	COVER HI *T	PP (WHITE)	1
	3001448510		PP (GRAY)	
	3001448520		PP (BLACK)	
A6	301179DP00	DOOR S/W AS	HC-050K4 250V2.5A	1
A7	3010937720	CAP DV HI HOLE *M	HIPS	1
A8	3012938000	HINGE *M AS	RFP-301	1
A9	3016001250	SPECIAL BOLT *M	6X15 SWCH22A(WH)	2
A10	3016044410	SPECIAL WASHER *M HI	SGCC, T1.0 x I.D9.0 x O.D15	1
A11	3012938100	HINGE *U AS	RFP-301	1
A11-1	3012105300	FOOT ADJ AS	PP+INSERT	1
A12	30160A1700	SPECIAL BOLT	SWCH10A M8*L18	3
A13	3816000200	SPECIAL WASHER	SPCC T1.0 x O.D21 x I.D8 MFZN	1
A14	3012106500	FOOT ADJ *L AS	PP+INSERT	1

* Please check the color, some parts code color dependent.

6. PART LIST

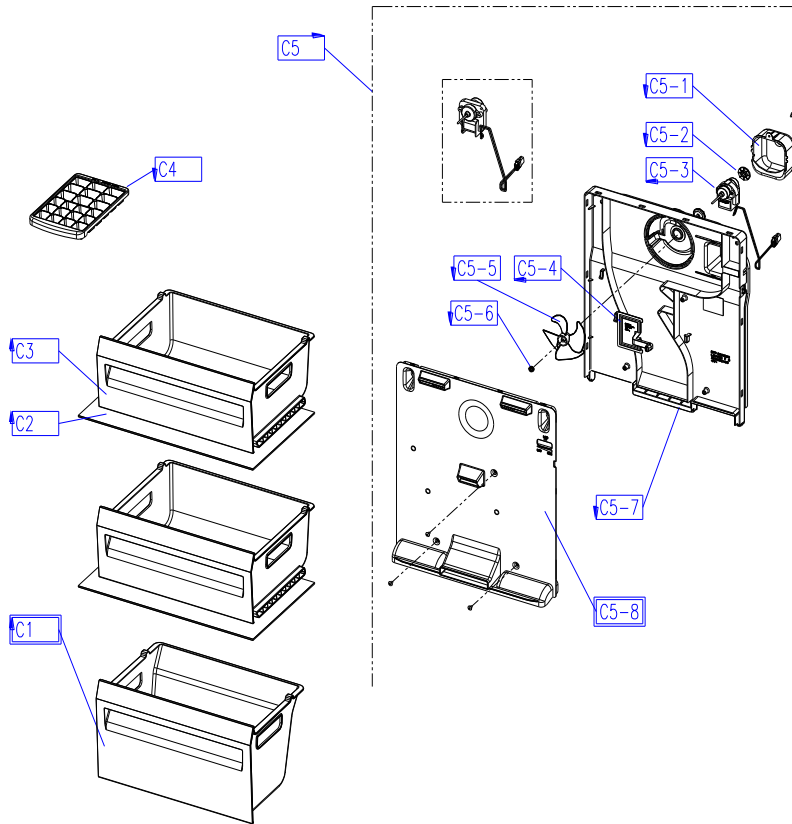
6-2. Refrigerant Cycle Compartment



NO	PART-CODE	PART NAME	SPEC.	Q'ty
				RN-53*
B1	3010365500	BASE COMP AS	RFP-301	1
B2	3016003300	SPECIAL BOLT	T2 M6.5*20	4
B3	301119VJ10	CASE VAPORI AS	RFP-301, PP(NATURAL)	1
B4	3014479430	PIPE CONN A	DUCT1-0 OD4.76*TO.5	1
B5	3010103400	ABSORBER COMP	RUBBER	4
B6	3012763210	HARNESS EARTH COMP	FRM-241, L140	1
B7	3956182M80	COMPRESSOR	LR82CY 230V 50HZ	1
B8	4019H09031	SPECIAL WASHER	SWRH	2
B9	3018134600	SWITCH P RELAY AS	B60-120, QP2-15C(RSCR DONPER)	1
B9.5	3015103900	SPRING OVERLOAD PROTECTOR	LZ88CY OLP FIXING	1
B10	3811402600	COVER RELAY	LZ88CY	1
B11	3015103800	SPRING COVER RELAY	LZ88CY COVER RELAY FIXING	1
B12	3010583740	BOX POWER AS	GI+400V,3UF	1
B12-1	3010552101	BOX POWER	GI/T0.5	1
B12-2	3016407000	CAPACITOR RUN AS	400V,3UF,HOUSING	1
B13	3016808230	DRYER AS	10G, SINGLE TUBE	1
B14	3011348111	CORD POWER	FR-290, 250V 10/16A	1
B15	3012513950	HOSE DRN B	PVC	1
B16	3017070020	EVA AS	RFP-301(DC F MOTOR), 230V,130W	1
B16-1	3017070100	EVA SAS	RFP-301	1
B16-2	3012764110	HARNESS D SENS	NBC-K43-24, MOLEX35965-0200	1
B16-3	3012831220	HEATER SHEATH AS	RFP-301(DC F MOTOR), 230V,130W	1
B16-4	4856813100	CABLE TIE	DA-140	1
B17	3014480010	PIPE WI-CON AS	RFP-301	1
B17-1	3014480000	PIPE WI-CON SAS	RFP-301	1
B17-2	3012041500	FIXTURE W-ICON	HIPS	4

6. PART LIST

6-3. Frozen Food Compartment

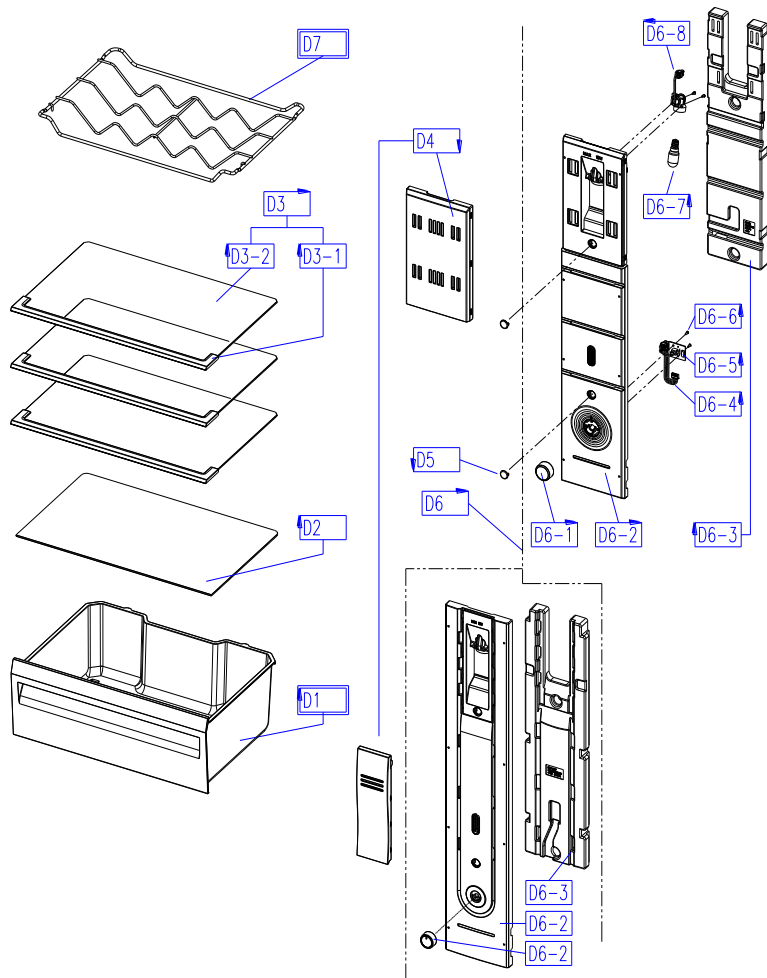


NO	PART-CODE	PART NAME	SPEC.	Q'ty
				RN-53*
C1	301119V200	CASE F B	RFP-301, GPPS(CRYSTAL)	1
	301119V210		RFP-301, GPPS(GRAY)	
	301119V220		RFP-301, GPPS(BLUE)	
C2	3017861500	SHELF GLAS F	GLASS T3.2 RFP-301	2
C3	301119V100	CASE F A	RFP-301, GPPS(CRYSTAL)	2
	301119V110		RFP-301, GPPS(GRAY)	
	301119V120		RFP-301, GPPS(BLUE)	
C4	3011187310	CASE ICING AS	CASE+VINYL	1
C5	3018932540	LOUVER F AS	RFP-301(DC 13V)	1
C5-1	3010664710	BRACKET FAN MOTR	PP(NATURAL), T2.0	1
C5-2	3010107100	ABSORBER F MOTR	NBR	2
C5-3	3015905360	MOTOR F AS	D4612AAA33	1
C5-4	3013415800	KNOB F CONTL	PP	1
C5-5	3011835900	FAN	OD100,SHAFT OD3.17	1
C5-6	3011200510	CLAMP FAN	SUS 304 (SPRING)	1
C5-7	3018932400	LOUVER F B	RFP-301, PP	1
C5-8	3018932300	LOUVER F A	RFP-301, PP	1

* Please check the color, some parts code color dependent.

6. PART LIST

6-4. Fresh Food Compartment

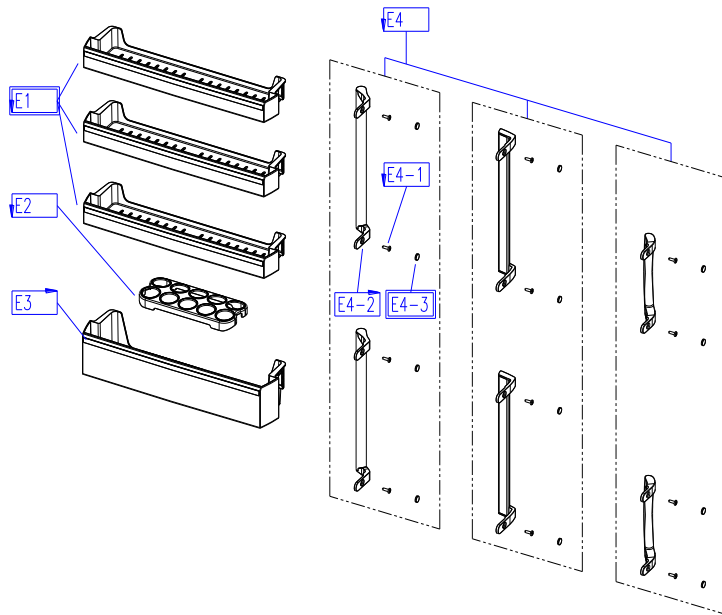


NO	PART-CODE	PART NAME	SPEC.	Q'ty
				RN-53*
D1	301119V000	CASE VEGTB	RFP-301, GPPS(CRYSTAL)	1
	301119V010		RFP-301, GPPS(GRAY)	
	301119V020		RFP-301, GPPS(BLUE)	
D2	301119V400	CASE GLAS VEGTB	T3.2	1
D3	3017861100	SHELF R AS	RFP-301	3
D3-1	3011664700	DECO SHELF *F	HIPS	1
D3-2	3017861200	SHELF GLAS R	T3.2	1
D4	3015523800	WINDOW M/FLOW DUCT	RFP-241/301, GPPS	1
	3015523900		RFP-30F, GPPS	
D5	3010924600	CAP F LOUVER	HIPS T2.3	2
D6	300149DR00	COVER M/FLOW DUCT AS	RFP-301(VE)+BULB 15W	1
	300149DR20		RFP-301(VE)+LED 1.2W	
	301149C400		RFP-30F(VE)+BULB 15W	
	301149C420		RFP-301+BULB 15W	
	301149CE00		RFP-301+LED 1.2W	
D6-1	3013415700	KNOB R CONTL	RFP-241/301, PRINT(EN)	1
	3013415900		RFP-30F, NO PRINT	
D6-2	301149C300	COVER M/FLOW DUCT	RFP-301, HIPS	1
	301149CD00		RFP-30F, HIPS	
D6-3	3013387900	INSU M/FLOW DUCT	RFP-301, F-PS	1
	3013388300		RFP-30F, F-PS	
D6-4	3012783310	HARNES PCB VOLUME AS	RFP-241/301(VE)	1
	3012783300		RFP-241/301	
D6-5	30143KW460	PCB VOLUME AS	RFP-241/301(VE)	1
	30143KW260		RFP-241/301	
D6-6	7121300811	SCREW TAPPING	T2S PAN 3X8 MFZN	4
D6-7	3013600020	LAMP AS	BULB 15W, 240V	1
	3017908400	SOCKET LED LAMP	LED 1.2W, 230V	
D6-8	3017903900	SOCKET LAMP AS		1
D7	3017861910	SHELF WINE	RFP-301, SUS 204	1(OPTION)

* Please check the color, some parts code color dependent.

6. PART LIST

6-5. Door Accesorry Compartment

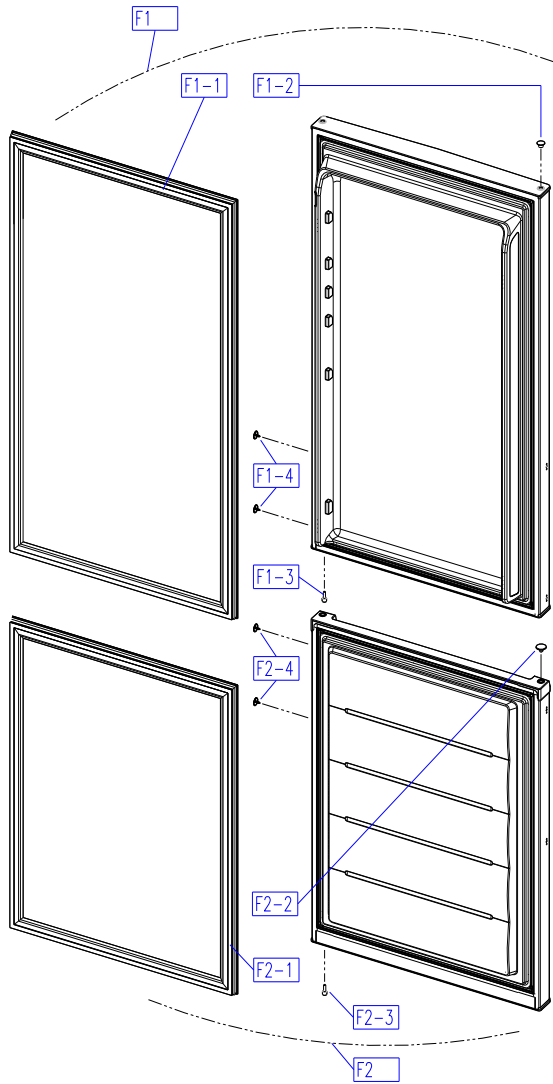


NO	PART-CODE	PART NAME	SPEC.	Q'ty
				RN-53*
	3019068700	POCKET R	RFP-301, GPPS(CRYSTAL)	3
	3019068710		RFP-301, GPPS(GRAY)	
	3019068720		RFP-301, GPPS(BLUE)	
E2	3011190800	CASE EGG TRAY	GPPS(CRYSTAL)	1
	3019068800	POCKET J	RFP-301, GPPS(CRYSTAL)	1
	3019068810		RFP-301, GPPS(GRAY)	
	3019068820		RFP-301, GPPS(BLUE)	
E4	3014011300	PACKING HNDL AS	AL BAR, MACHING WHITE DOOR(RFP-242/302)	1(OPTION)
	3014011310		AL BAR, MACHING BLACK DOOR(RFP-242/302)	
	3014011320		AL BAR, MACHING SILVER DOOR(RFP-242/302)	
	3014011330		AL BAR, MACHING T/SILVER DOOR(RFP-242/302)	
	3014011400		ABS BAR, MACHING WHITE DOOR(RFP-243/303)	
	3014011410		ABS BAR, MACHING BLACK DOOR(RFP-243/303)	
	3014011420		ABS BAR, MACHING SILVER DOOR(RFP-243/303)	
	3014011430		ABS BAR, MACHING T/SILVER DOOR(RFP-243/303)	
	3014007820		ABS BAR(VE), MACHING WHITE DOOR(RFP-243/303)	
	3014007860		ABS BAR(VE), MACHING BLACK DOOR(RFP-243/303)	
	3014007850		ABS BAR(VE), MACHING SILVER DOOR(RFP-243/303)	
	3014007830		ABS BAR(VE), MACHING T/SILVER DOOR(RFP-243/303)	
	3014011100		ONE PIECE HANDLE, MACHING WHITE(RFP-244/304)	
	3014011110		ONE PIECE HANDLE, MACHING SILVER(RFP-244/304)	
	3014011120		ONE PIECE HANDLE, MACHING BLACK(RFP-244/304)	
E4-1	3011190800	SPECIAL GRIP HNDL	M5xL16 MFZN	4
E4-2	3012659700	HANDLE BAR AS	AL BAR, MACHING WHITE DOOR(RFP-242/302)	2
	3012659710		AL BAR, MACHING BLACK DOOR(RFP-242/302)	
	3012659720		AL BAR, MACHING SILVER DOOR(RFP-242/302)	
	3012659730		AL BAR, MACHING T/SILVER DOOR(RFP-242/302)	
	3012659800		ABS BAR, MACHING WHITE DOOR(RFP-243/303)	
	3012659810		ABS BAR, MACHING BLACK DOOR(RFP-243/303)	
	3012659820		ABS BAR, MACHING SILVER DOOR(RFP-243/303)	
	3012659830		ABS BAR, MACHING T/SILVER DOOR(RFP-243/303)	
	3012658100		ABS BAR(VE), MACHING WHITE DOOR(RFP-243/303)	
	3012658130		ABS BAR(VE), MACHING BLACK DOOR(RFP-243/303)	
	30126581230		ABS BAR(VE), MACHING SILVER DOOR(RFP-243/303)	
	3012658110		ABS BAR(VE), MACHING T/SILVER DOOR(RFP-243/303)	
	3012659300	HANDLE	ONE PIECE HANDLE, MACHING WHITE(RFP-244/304)	
	3012659310		ONE PIECE HANDLE, MACHING SILVER(RFP-244/304)	
	3012659320		ONE PIECE HANDLE, MACHING BLACK(RFP-244/304)	
E4-3	3010985200	CAP HNDL DR	WHITE	4
	3010985210		SILVER	
	3010985220		BLACK	
	3010985230		T/SILVER	

* Please check the color, some parts code color dependent.

6. PART LIST

6-6. DOOR Compartment

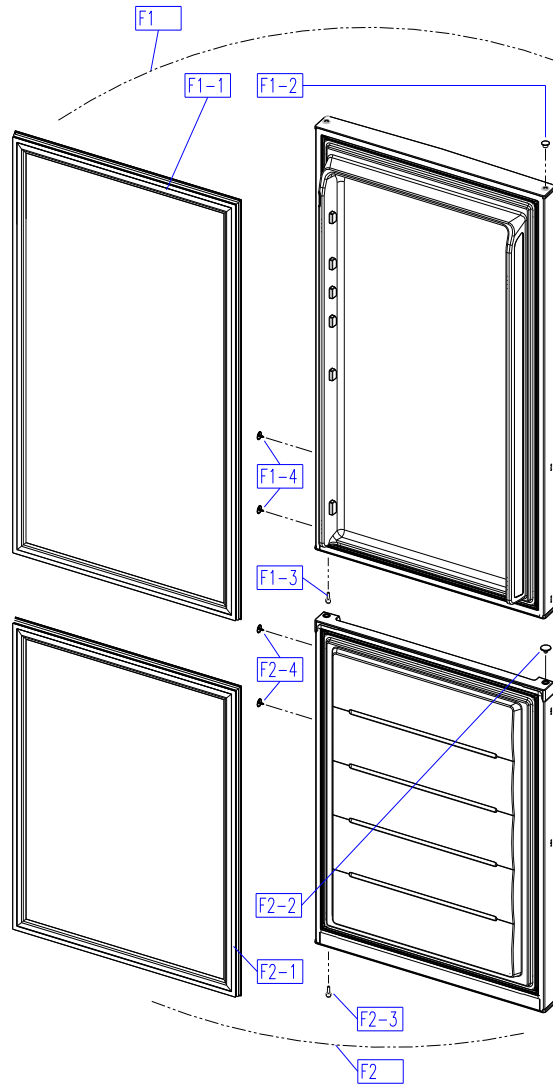


NO. F1		NO. F2		SPEC.	Q'ty RN-53*
PART CODE	PART NAME	PART CODE	PART NAME		
30100B9Y00	ASSY R DR	30100B9X00	ASSY F DR	RFP-301, PCM WHITE(DWG1C)	1
30100B9Y40		30100B9X30		RFP-301, PCM SILVER(ASG4P)	
30100B9Y50		30100B9X40		RFP-301, PCM T/SILVER(TSH1P)	
30100B9Y60		30100B9X50		RFP-301, PCM BLACK(BLH1C)	
30100B9Y70		30100B9X60		RFP-301, PCM PLATINUM SILVER(PSH1P)	
30100B9Y30		30100B9X20		RFP-302/303, PCM WHITE(DWG1C)	
30100B9YL0		30100B9YA0		RFP-302/303, VCM WHITE(DWH1C)	
30100B9YC0		30100B9Y80		RFP-302/303, PCM SILVER(ASG4P)	
30100B9YD0		30100B9XD0		RFP-302/303, PCM T/SILVER(TSH1P)	
30100B9YE0		30100B9YA0		RFP-302/303, PCM BLACK(BLH1C)	
-		30100B9XC0		RFP-302/303, PCM BLACK(BLH1C)+ DOOR CAP(RED)	
30100B9YF0		30100B9YB0		RFP-302/303, PCM PLATINUM SILVER(PSH1P)	
30100B9Y20		30100B9X10		RFP-304, PCM WHITE(DWG1C)	
30100B9YG0		30100B9X70		RFP-304, PCM SILVER(ASG4P)	
30100B9YH0		30100B9X80		RFP-304, PCM T/SILVER(TSH1P)	
30100B9YJ0		30100B9X90		RFP-304, PCM BLACK(BLH1C)	
30100B9YK0		30100B9XA0		RFP-304, PCM PLATINUM SILVER(PSH1P)	
30000CPM00		30000CPN00		RFP-305, PCM WHITE(DWG1C)	
30000CPM10		30000CPN10		RFP-305, PCM SILVER(ASG4P)	
30000CPM20		30000CPN20		RFP-305, PCM T/SILVER(TSH1P)	
30000CPM30		30000CPN30		RFP-305, PCM BLACK(BLH1C)	
30000CPM40		30000CPN40		RFP-305, PCM PLATINUM SILVER(PSH1P)	
30000CPP00		30000CPQ00		RFP-306, PCM WHITE(DWG1C)	
30000CPP10		30000CPQ10		RFP-306, PCM SILVER(ASG4P)	
30000CPP20		30000CPQ20		RFP-306, PCM T/SILVER(TSH1P)	
30000CPP30		30000CPQ30		RFP-306, PCM BLACK(BLH1C)	
30000CPP40		30000CPQ40		RFP-306, PCM PLATINUM SILVER(PSH1P)	
30100B9YM0		-		RFP-30V, PCM WHITE(DWG1C), HIDDEN TYPE	
30100B9YN0		-		RFP-30V, PCM SILVER(ASG4P), HIDDEN TYPE	

* Please check the color, some parts code color dependent.

6. PART LIST

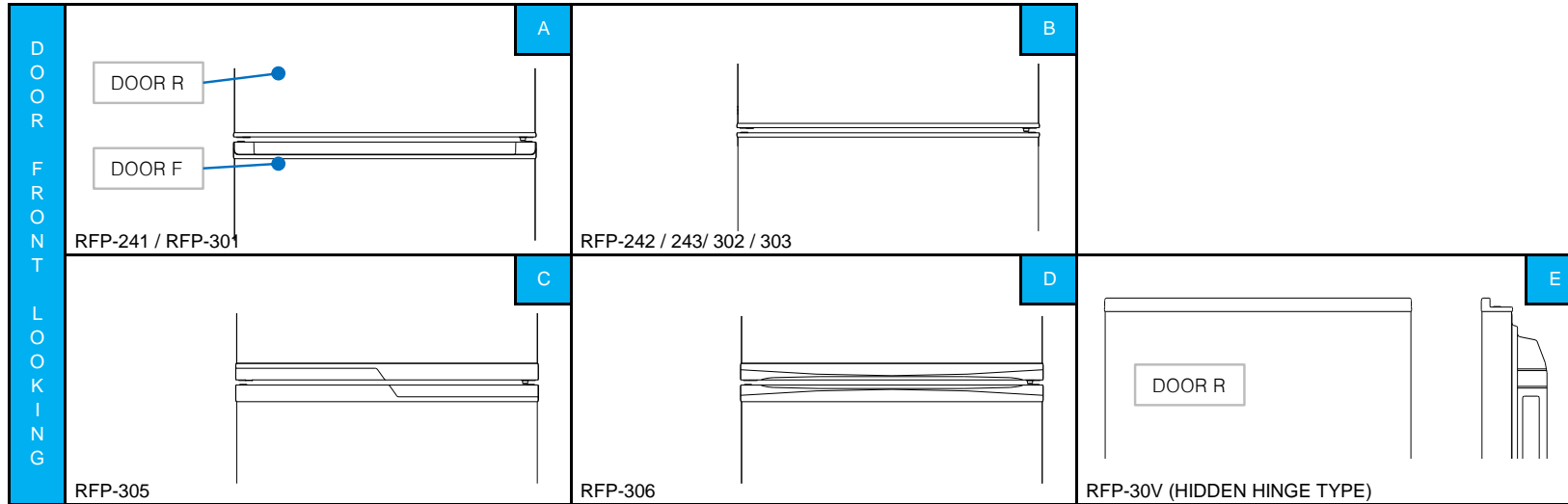
6-6. DOOR Compartment



NO	PART-CODE	PART NAME	SPEC.	Q'ty
				RN-53*
F1-1	3012331000	GASKET R DR	RFP-301, GRAY	1
	3012331010		RFP-301, BLACK	
F1-2	3011450300	COVER CAP HOLE A	ABS, WHITE	1
	3011450310		ABS, SILVER	
	3011450340		ABS, BLACK	
F1-3	3016047410	SPECIAL STOPPER DR BOLT	TAP-TITE 5*16	1
F1-4	3010985100	CAP DR	ABS, WHITE	2(OPTION)
	3010985110		ABS, SILVER	
	3010985120		ABS, BLACK	
F2-1	3012331000	GASKET F DR	RFP-301, GRAY	1
	3012331010		RFP-301, BLACK	
F2-2	3011450300	COVER CAP HOLE A	ABS, WHITE	1
	3011450310		ABS, SILVER	
	3011450340		ABS, BLACK	
	3011450360		ABS, RED(SPRAY)	
F2-3	3016047410	SPECIAL STOPPER DR BOLT	TAP-TITE 5*16	1
F2-4	3010985100	CAP DR	ABS, WHITE	2(OPTION)
	3010985110		ABS, SILVER	
	3010985120		ABS, BLACK	

* Please check the color, some parts code color dependent.

6. PART LIST



**Some parts can be changed for improving without notice.*

Date	Note