DAEWOO ELECTRONICS

Service Manual

RN-341N **RN-342N** **RN-343N** **RN-344N** **RN-345N** **RN-346**

DAEWOO ELECTRONICS

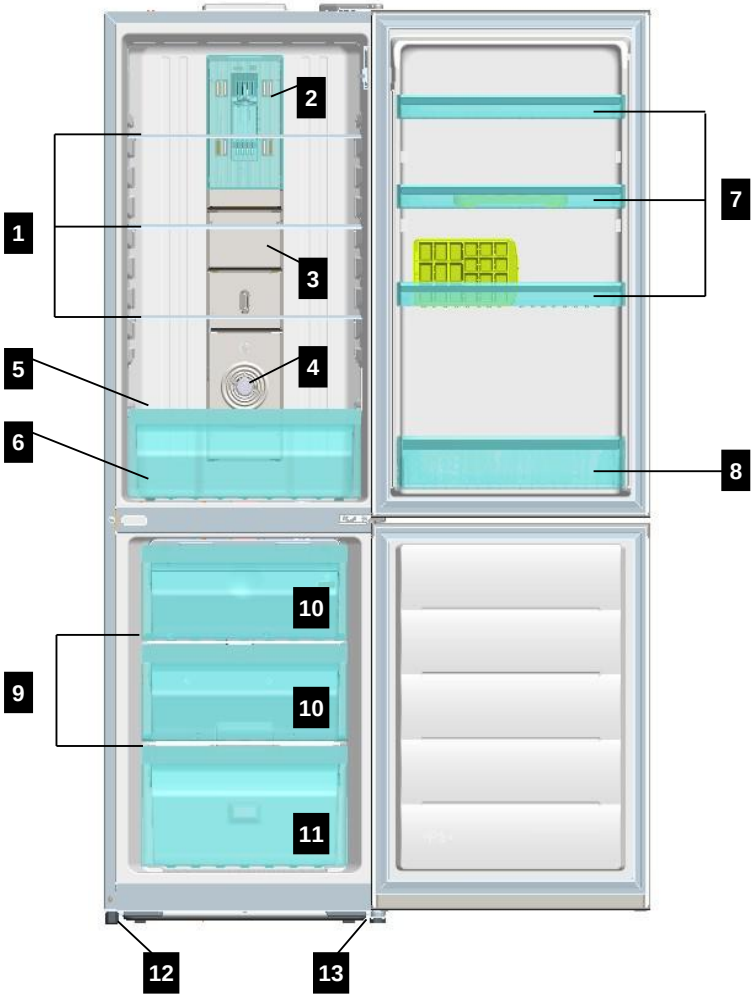
CONTENTS

1-1. Model Information

* is the Door Type

Buyer No.		**RN-34*N**	
Factory No.		**RFP-31*N*P8N**	
Control Type		Front Control Panel Button	
Gross Vol. IEC 62552 (unit: L)	Total	337	
	Freezer	111	
	Refrigerator	226	
Storage Vol. IEC 62552 (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)	
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)	ID0.75 x T0.55 x L2290	
Heater	Defrost Type	Automatic Start & Stop	
	Defrost Heater	AC230V, 130W	
	Defrost Shape	Sheath Type	
Electric Part	Freezer Fan Motor	AC 220V/50Hz, 2500RPM	
	Refrigerator Lighting	Bulb 15W x 1EA	
Net Weight (Packing)		67(73)kg	
Blowing Agent		C-Pentane	

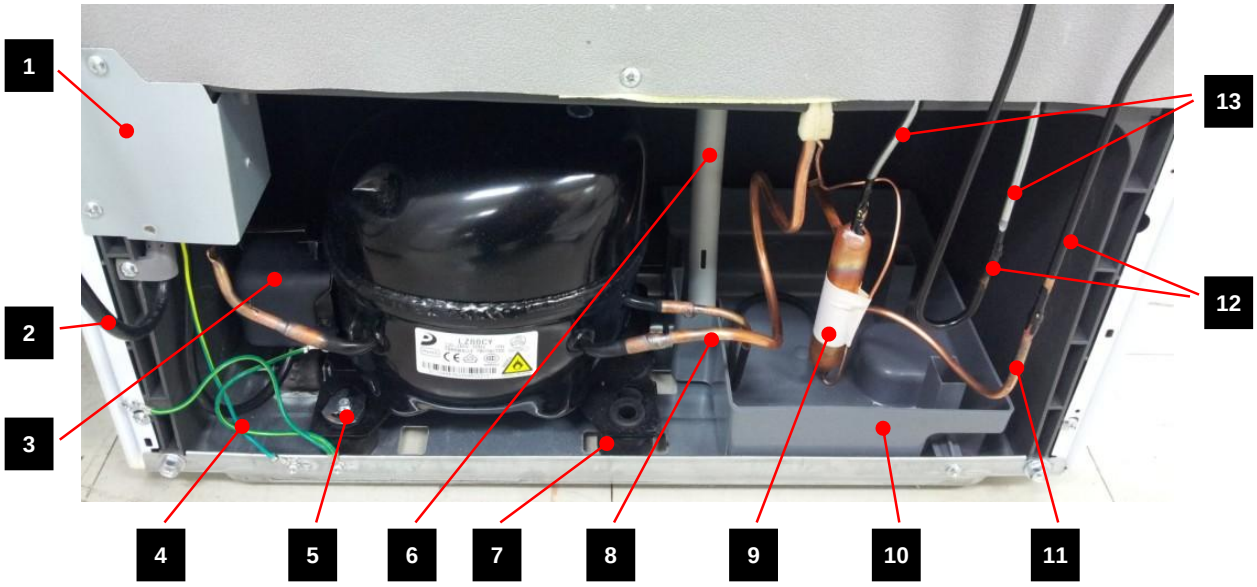
1-2. Interior Parts



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

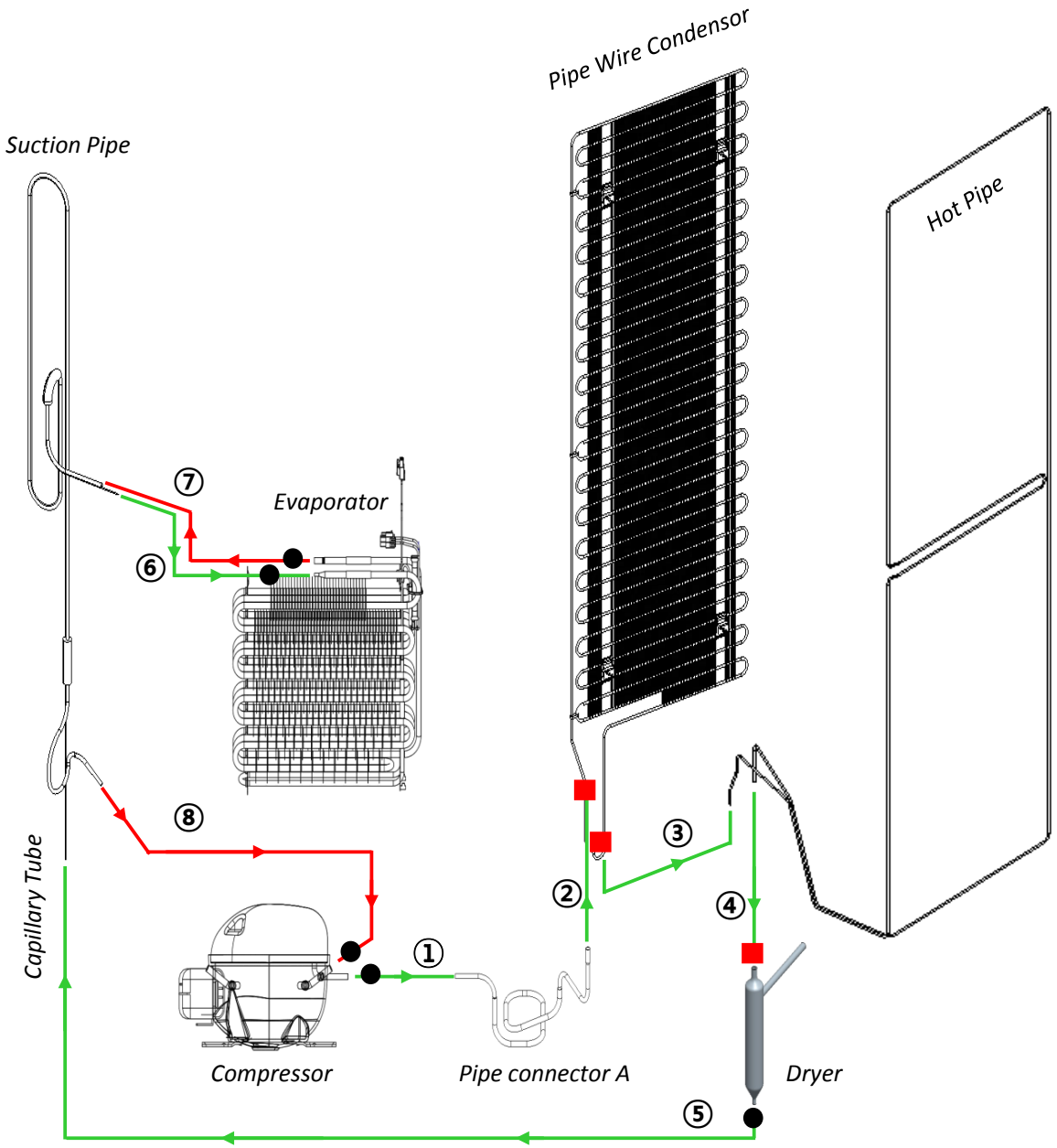
7. Refrigerator Pocket "R"
8. Refrigerator Pocket "J"
9. Freezer Shelves
10. Freezer Case "A"
11. Freezer Case "B"
12. Adjusting Leg (Left)
13. Adjusting Leg (Right)

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

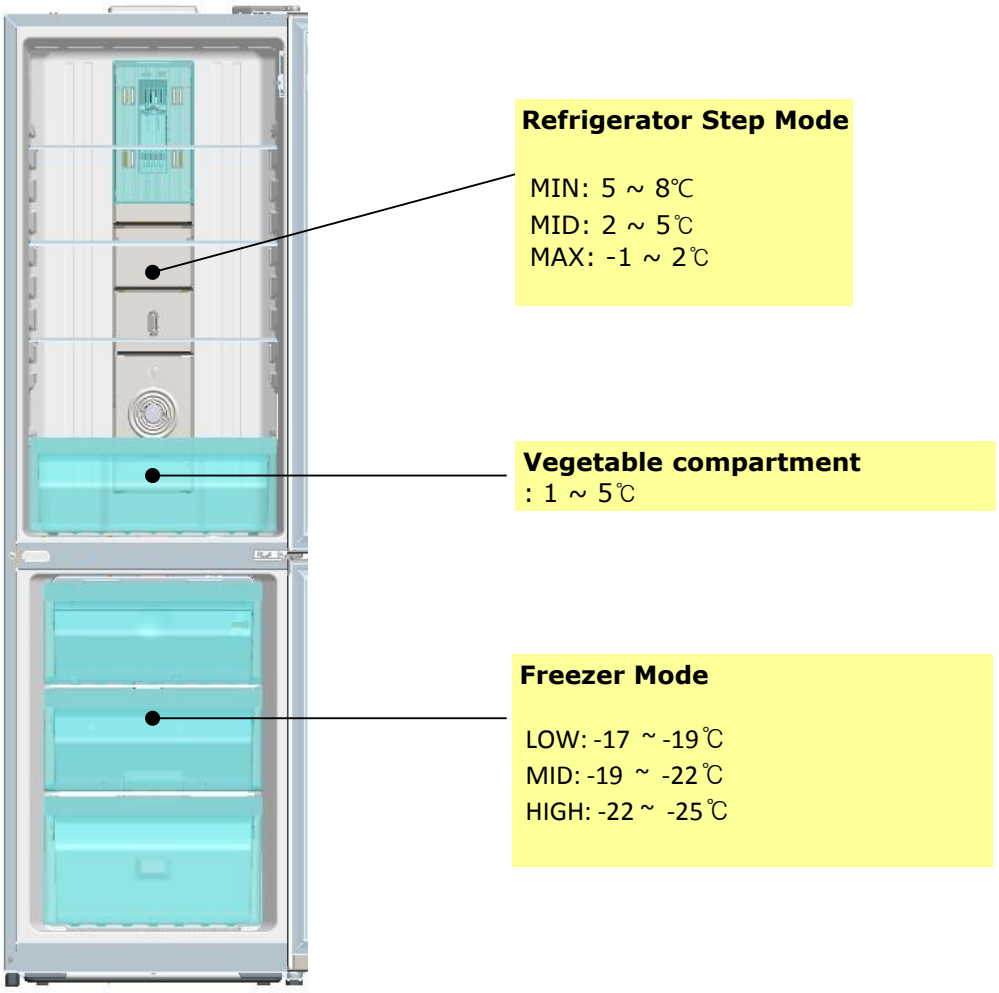
1-4. Refrigerant Cycle



- Welding Point

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

1-5. Temperature Diagram



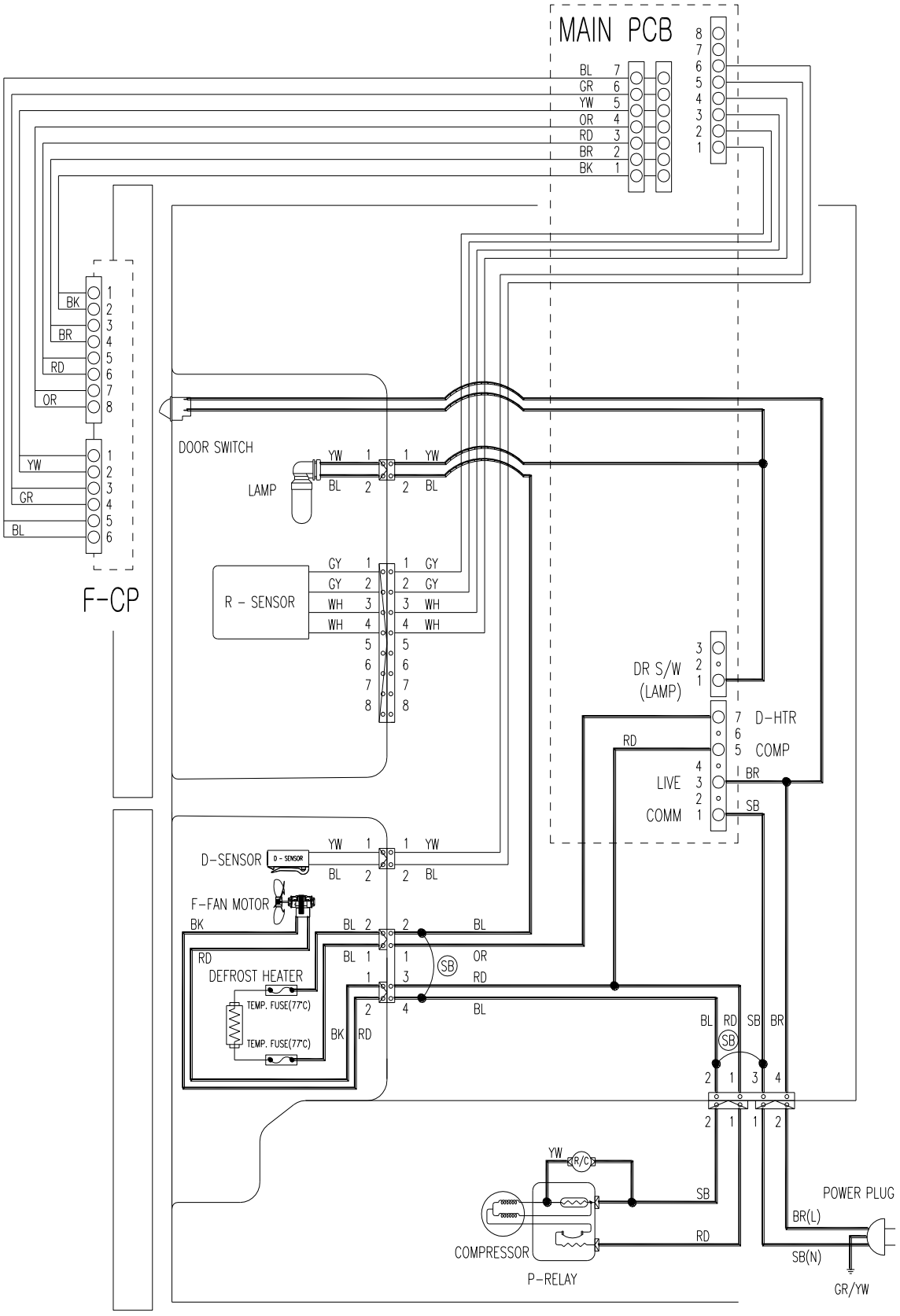
⚠

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

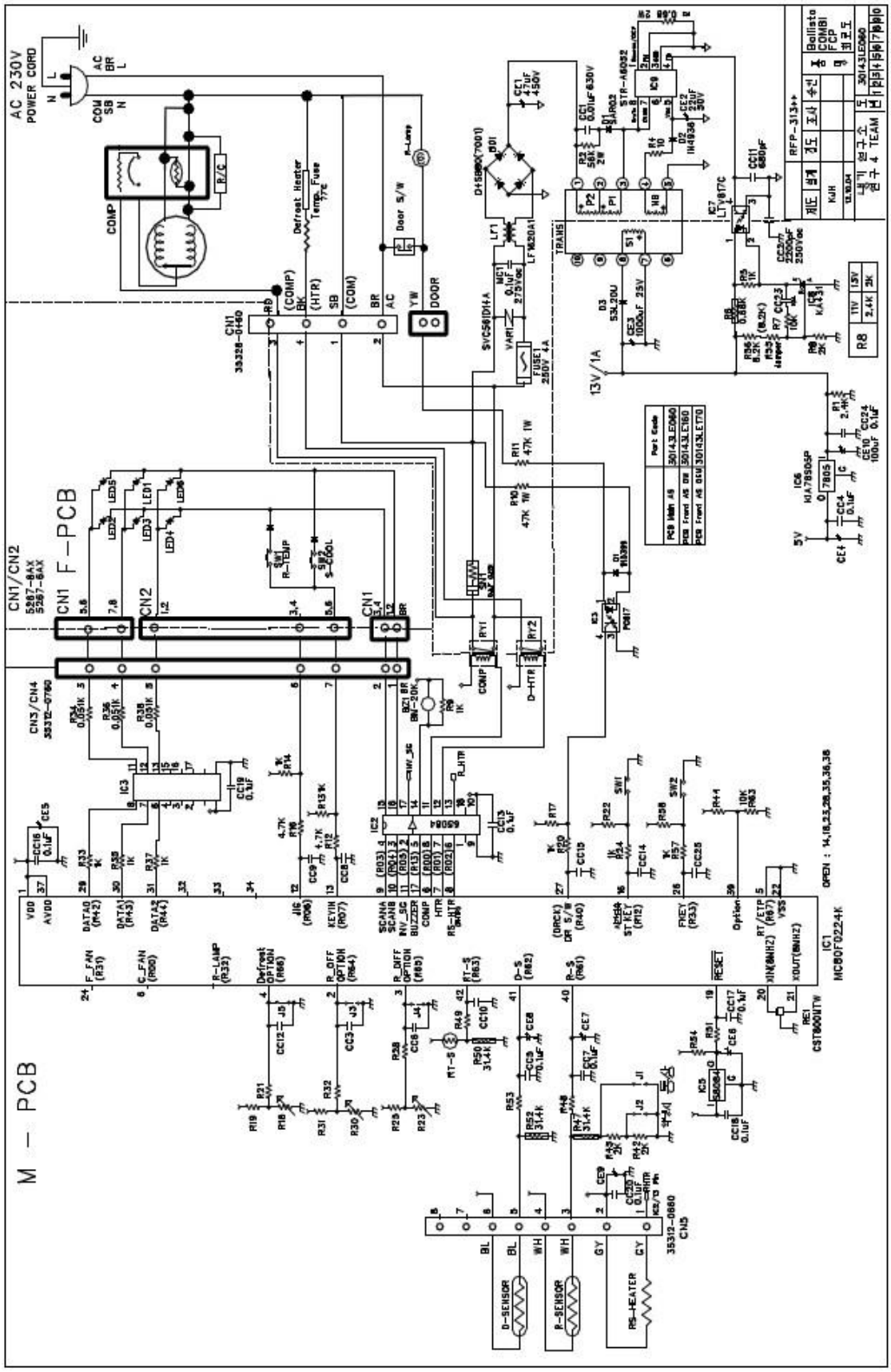
; Refrigeration function is weak in the initial time.

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

1-6. Wiring Diagram



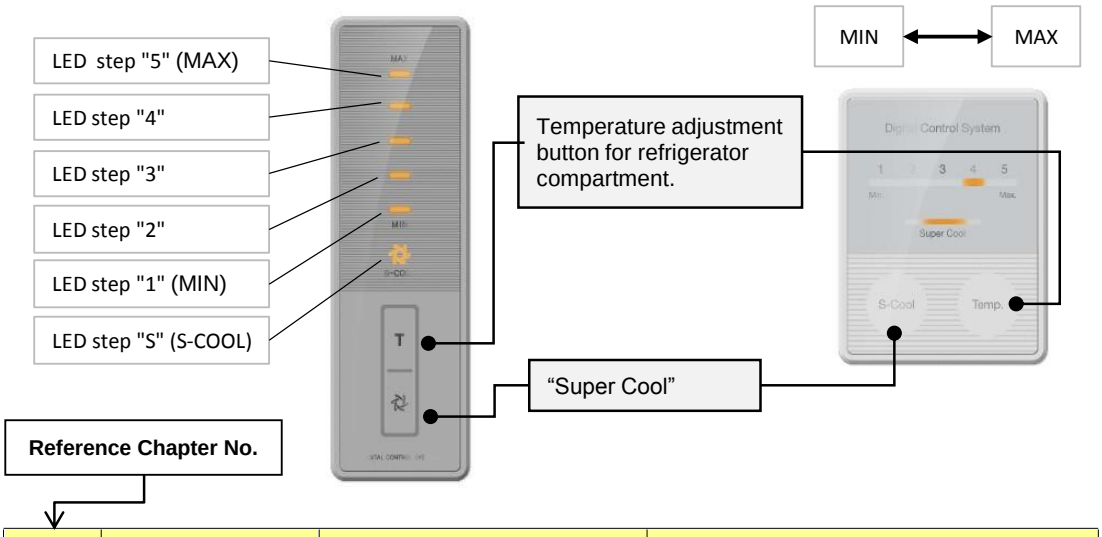
1.7. Main PCB Circuit Diagram



2-1. DISPLAY

INPUT	CONTROL OBJECT
- PCB Control Panel Button	-PCB Control Panel LED

- Temperature is controlled by "PCB Control Panel Button" assembled on the refrigeratior door.
- Features are model dependent.



	LED DISPLAY		What's the Meaning	How to Push Buttons for the LED Display
	ON	Flicker		
2-2	3	-	TEMP STEP "NOR"	Initial mode by power input
	4	-	TEMP STEP "MAX-NOR"	"TEMP" 1 time
	5	-	TEMP STEP "MAX"	"TEMP" 2 times
	1	-	TEMP STEP "MIN"	"TEMP" 3 times
	2	-	TEMP STEP "MIN-NOR"	"TEMP" 4 times
	S	-	TEMP S-COOL	"S-COOL" 1 time
2-8	3	4,5	ERROR "R SENSOR" (R1)	"S-COOL" continuously + "TEMP" 5 times ※**The Priorities of Error Display : R1 > RT > D1 > C1 > F3**
	2	4,5	ERROR "RT SENSOR" (RT)	
	1	4,5	ERROR "D SENSOR" (D1)	
	2,3	4,5	ERROR "DOOR S/W" (DR)	
	1,3	4,5	ERROR "CYCLE" (C1)	
	1,2	4,5	ERROR "DEFROST" (F3)	
2-3	3,S	4,5	Forced Defrost Mode in Progress	▪ How to start the mode: "TEMP" continuously + "S-COOL" 5 times => All LED ON for initial 3 seconds. ▪ How to confirm the mode after 3sec.: "S-COOL" continuously + "TEMP" 5 times

2-2. Temperature Control of Refrigerator Compartment

INPUT	CONTROL OBJECT
- PCB Control Panel "TEMP" and "S-Cool" Buttons - R sensor	- COMPRESSOR - FAN

A. "TEMP" Button of the Panel
- Temperature control of Refrigerator compartment
- 5 step mode of successive temperature mode
- Initial mode by power input: step 3 (NOR)
- Temperature will be set if the button doesn't get pressed again within 5 sec.
- Whenever pressing "TEMP" button, setting is repeated in the order of
  "NOR" → "MAX-NOR" → "MAX" → "MIN" → "MIN-NOR" (LED DISPLAY ON)

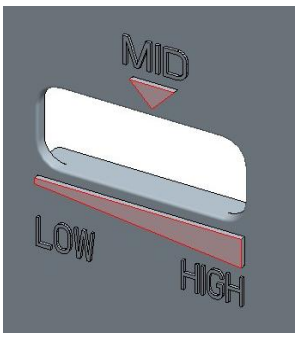
B. Temperature of Refrigerator Control
- COMP and FAN will be controlled by the on/off condition of each mode
- Temperature Difference of Refrigerator each step :

STEP	1	2	3	4	5
ON(℃)	9.4	7.1	4.9	3.4	1.2
OFF(℃)	-0.5	-1.6	-3.7	-5.2	-7.2

C. Temperature of Refrigerator at "NOR" OFF point:
-3.7℃

D. S-Cool (Quick REfrigeration) Mode
- Press "S-Cool" Button of the Panel and make "S-Cool" LED on.
- Comp & Fan are on until R-sensor reaches to "Over Refrigeration OFF Point", -9.5℃
- After the reach of -9.5℃, Step 5(MAX) mode continues.
- When "S-Cool" mode lasts for about 40 minutes, it returns to general operation mode.

E. Temperature of Freezer Control
-It will be only controlled by using “KNOB F LOUVER” in the Freezer Comaprtment.



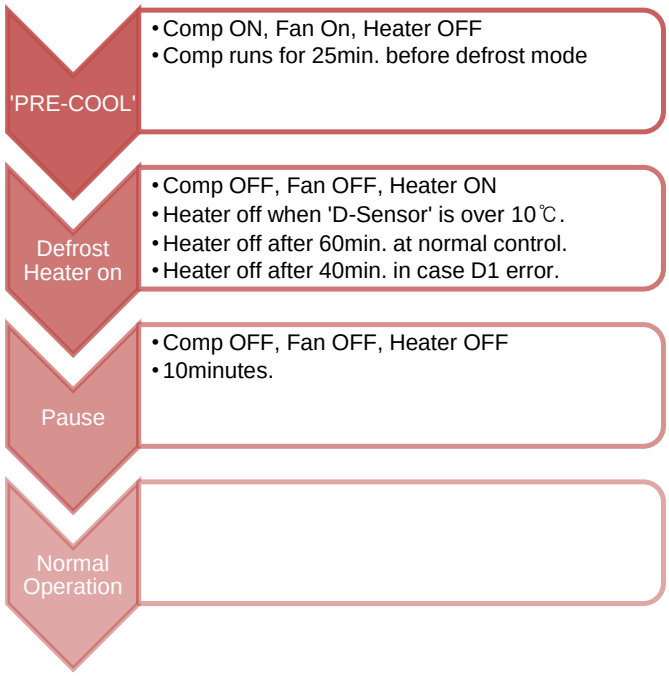
2-3. Defrost Mode

INPUT	CONTROL OBJECT
- Accumulated Compressor Run Time - Running Time Ratio of Compressor - Accumulated Door Open Time - Ambient temperature (RT)	- Compressor - F Fan - Defrost Heater

A. Defrost Mode Operation conditon
(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
- or, ambient temperature (RT) is more than 38℃

(2) Even if the above condition is not satisfied,
defrost mode starts immediately when accumulated compressor run time is 14hrs.

B. Normal Defrost Mode

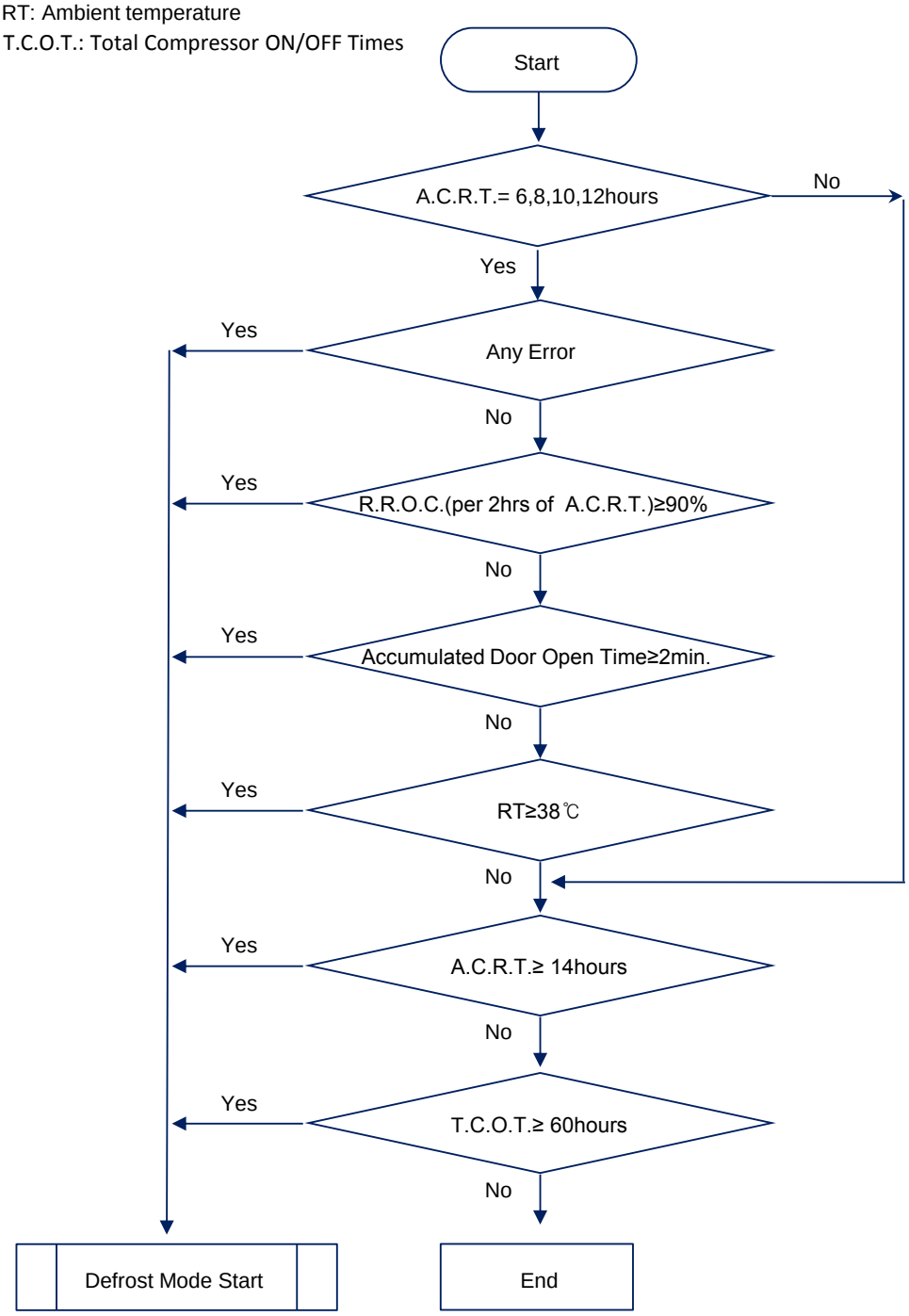


C. Forced Defrost Mode
- How to start:
by press “TEMP” button for continuously and “S-COOL” button 5 times.
- If appliance has any error, Forces Defrost Mode don't start.
- Process: same as Normal Defrost Mode except 'PRE-COOL'
※ Heater is supposed to be on Initial 30sec. even though the temp. at “D SENSOR” is over 13℃. (for TEST)
- How to confirm:
1) buzzer sound 3times and all LED on for 3 sec., when Forced Defrost Mode start.
2) LED "3", "S-COOL" on and "4", "5" flickering by pushing "S-COOL" button for continuously and "TEMP" button 5 times after Forced Defrost Mode start.

2-3. Defrost Mode

D. Flow chart of How to Start Defrost Mode

※ A.C.R.T. : Accumulated Compessor Run Times
※ R.R.O.C. : Running Rate of Compressor
※ RT: Ambient temperature
※ T.C.O.T.: Total Compressor ON/OFF Times



2-4. Function of Low Ambient Temperature (RT)	
INPUT	CONTROL OBJECT
RT	- R HTR - COMP

A. Condition of LOW RT
- RT sensor below 19℃
- When the RT sensor is over 20℃, the system comes to be “General Operation Mode”.
- When the RT sensor is between 19°C to 20°C, the system keeps the previous mode.

B. Control
- When the temp of RT sensor is between 14°C to 19°C, COMP on/off temp is 3°C UP
- When the temp of RT sensor is below 14°C, COMP ON/OFF temp is 4°C UP

2-5. Prevention of Compressor Restart	
INPUT	CONTROL OBJECT
N/A	COMP

It takes several minutes to protect Compressor:
(1) 6 minutes after Comp off
(2) 30 minutes at operation of Low RT, but 6 minutes when the doors open more than 20 seconds

2-6. Buzzer Sound	
INPUT	CONTROL OBJECT
- Forced Defrost Mode start - Door Switch - Initial Power Input	Buzzer

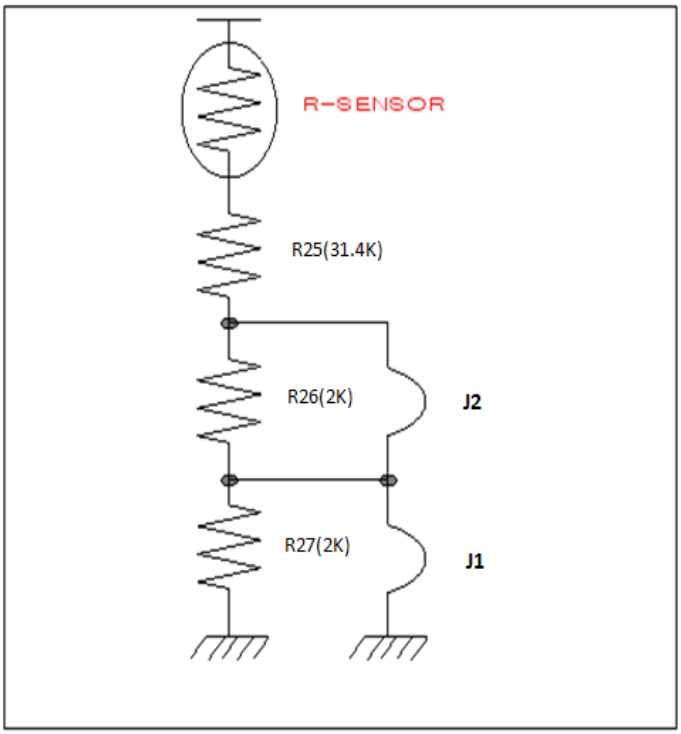
A. When Forced Defrost Mode start, the buzzer rings 3times.
B. After 2 minutes power’s on, the buzzer rings 3 times.
C. At Short Circuit Test, the buzzer rings 1 times.
D. When door opens, the buzzer rings every 1 minute for 5 minutes.

2-7. 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 (R25) : Default resistance (31.4Kohms)
  (2) Resistance (R26) : Cut the “J1” off to reduce basic resistance by 1.5°C. (2Kohms up)
  (3) Resistance (R27) : Cut the “J2” off additionally to reduce basic resistance by 1.5°C. (total 4Kohms up)

※ R25 = R-SENSOR OFF point
R25 + R26 = R-SENSOR OFF point - 1.5°C
R25 + R26 + R27 = R-SENSOR OFF point - 3°C



2-8. Error Display

INPUT	CONTROL OBJECT
PCB Control Panel Buttons on Door	LED DISPLAY

- Error Check Mode
  (1) How to start: Push "S-COOL" button for continuously and "TEMP" button 5 times .
  (2) What happen: LED "4 & 5" flickering, and if any errors occur, the related LEDs on.
  (3) CANCEL: Push "TEMP" button 1 time, or wait 4 minutes.
  ※ After operations back to normal, the displays come to be reset.

A. "R1" ERROR
: It happens when R-Sensor is OPEN or SHORT.
(1) LED DISPLAY: LED "3" on, "4 & 5" flickering
(2) REACTION: Controlled by the following condition of RT

RT sensor TEMP (unit:℃)	~13	~19	~29	29~
COMP. Operating ON/OFF TIME (unit:min.)	6/34	10/30	16/24	20/20

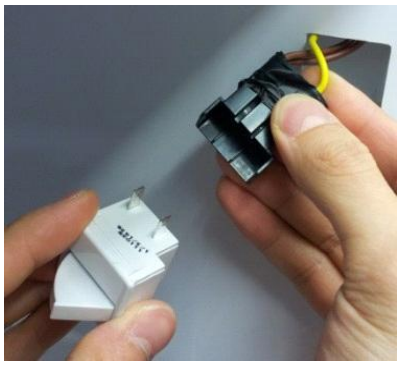
※ If "RT" ERROR happens at the same time, COMP. Operating ON/OFF Time is 16min/24min.
(3) RELEASE: When R-Sensor is working normally.

B. "RT" ERROR
: It happens when RT-Sensor is OPEN or SHORT.
(1) LED DISPLAY: LED "2" on, "4 & 5" flickering
(2) REACTION: Delete the conditions of RT-sensor Control and operate normally.
(3) RELEASE: When RT-Sensor is working normally.

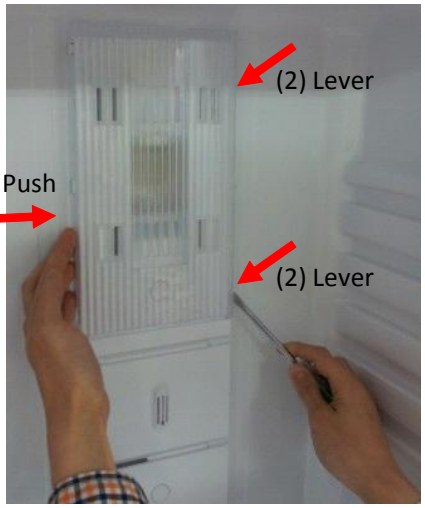
C. "d1" ERROR
: It happens when D-Sensor is OPEN or SHORT.
(1) LED DISPLAY: LED "1" on, "4 & 5" flickering
(2) REACTION: Return to next limit Defrost Time (40 min)
(3) RELEASE: When D-Sensor is working normally.

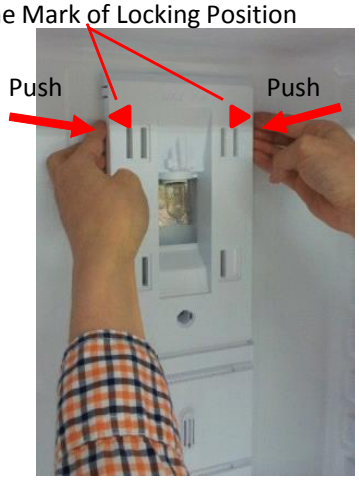
D. "DR" ERROR
: It happens when the system senses door opens more than 1 hour.
(1) LED DISPLAY: LED "2 & 3" on, "4 & 5" flickering
(2) REACTION: Delete function relating to door switch sensing
(3) RELEASE: When sensing close from door S/W.

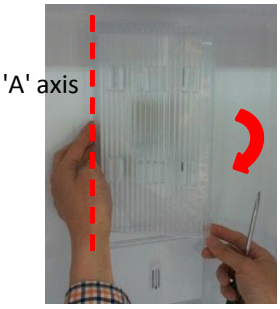
3-1. Door Switch

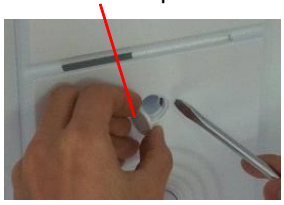
No	Procedure	No	Procedure
1	 *Inuput a thin driver in the upper part as above picture.* *And lift up 'Door Switch' carefully.*	3	  *Disconnect the wire housing.*
2	 *Inuput a thin driver in the lower part as above picture.* *And lift up 'Door Switch' carefully.*		

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

<table>
<tr><th>No</th><th>Procedure</th><th>No</th><th>Procedure</th></tr>
<tr><td>1</td><td> 

Unlock the lamp window
(1) Push the window right side
(2) Lever two window lock with flat driver</td><td rowspan="2">4</td><td rowspan="2">the Mark of Locking Position
 

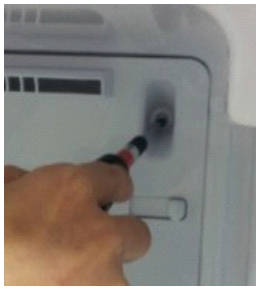
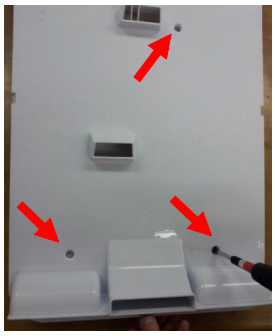
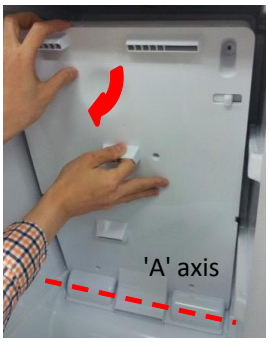
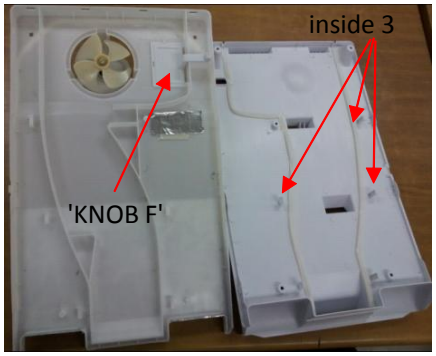
Unlock the 'COVER M/FLOW DUCT'
(1) Check the marks of locking position on 'Cover'.
(Number of the marks are model dependent)
(2) Push the 'cover' inside and Unlock.</td></tr>
<tr><td>2</td><td> 

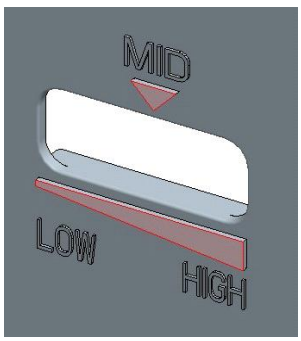
Open window turning on the axis 'A'</td></tr>
<tr><td>3</td><td> 

Remove two screw cap with flat driver.
Unscrew 2 points</td><td>5</td><td> 

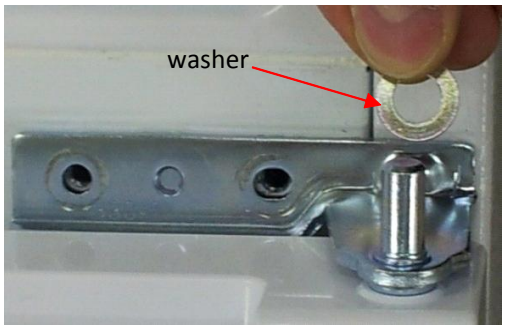
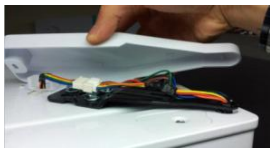
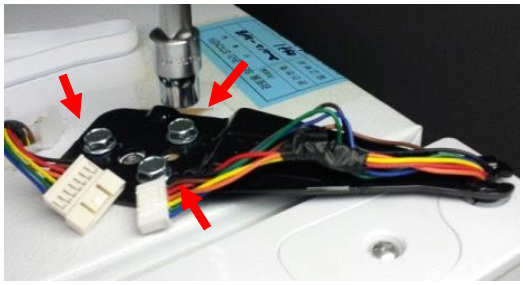

Disconnect the Lamp & Sensor wire housing.</td></tr>
</table>

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

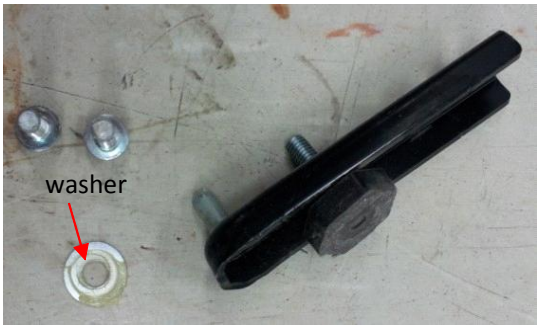
No	Procedure	No	Procedure
1	  *Unscrew to disassemble the 'Louver F As' from Freezer.*	4	 *Unscrew to disassemble as each component part.*
2	  *Remove the 'Louver F As' pulling the top side.*	5	  *Unlock carefully. (especially, inside 3 locks)*  ※*Default position of 'KNOB F' is 'MID'*
3	 *Disconnect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



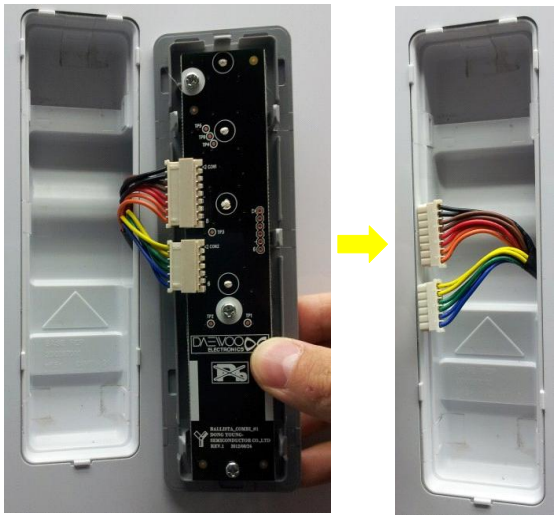
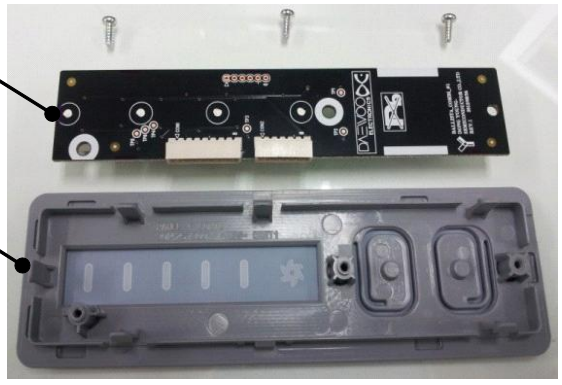
3-4. DOOR F/R

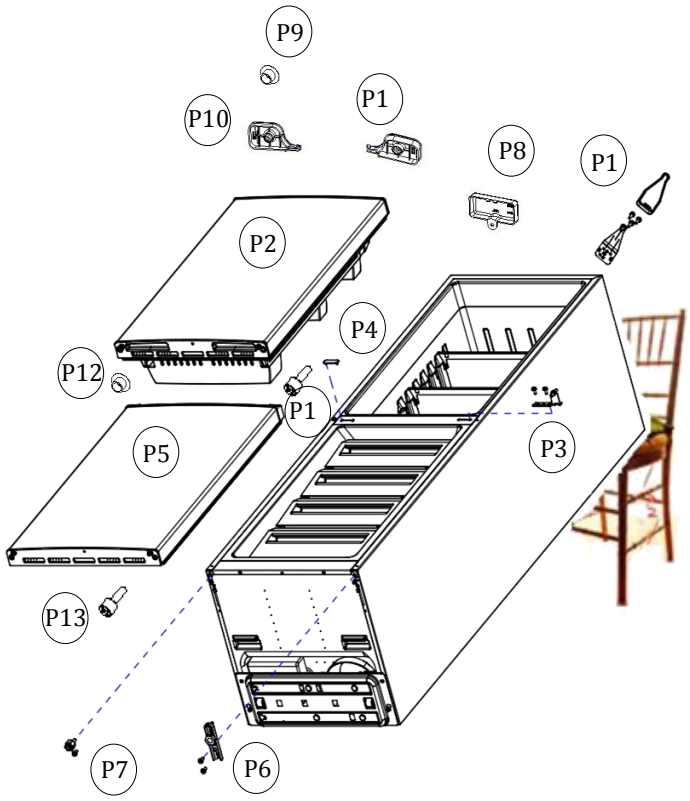
No	Procedure	No	Procedure
1	 Tilt down the appliance to the rear.	4	  Remove door in fresh food compartment. And unscrew middle hinge.  ※ Don't forget the washer for middle hinge.
2	   Unscrew and lift up top cover hinge to remove.		
3	 Unscrew and remove top hinge.	5	  Lift up middle cover hinge to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

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 compart ment.*

3-5. Front Control Panel PCB

No	Procedure	No	Procedure
1	 *Inuput a cutter sleeve between Panel and Door.* *Be careful not to scratch the Door surface.*	2	 *Lift up the Panel and disconnect the wire housing.*
3	 *Unscrew and separate the panel and PCB.*		



1-1>
Tilt down the appliance to the rear.
(Watch out for damage of Pipe Wire Condensor
assembled in the rear of refrigerator.)

1-2>
Disassemble following parts in order.

P1) 'Top Cover Hinge' and 'Top Hinge'
P2) 'Refrigerator Door'
P3) 'Middle Hinge'
P4) 'Middle Cover Hinge'
P5) 'Freezer Door'
P6) 'Under Hinge'
P7) 'Adjusting Leg '
P8) 'Cover Cabinet Harness'
P9) 'Cap Refrigerator Door'
P10) 'Cover Door Harness Left'
P11) 'Cover Door Harness Right'
P12) 'Cap Freezer Door'
P13) 'Stopper Refrigerator/Freezer Door'

1-3>
Move following parts in the opposite position:

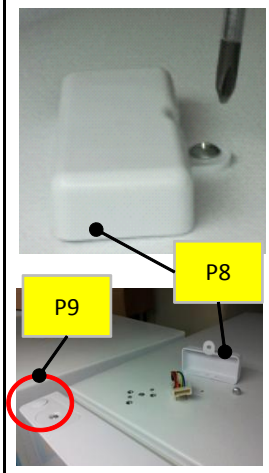
P9, P12, P13

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

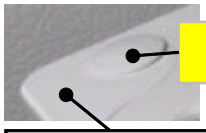
P6 & P7, P3 & P4, P1 & P8

<Reference>

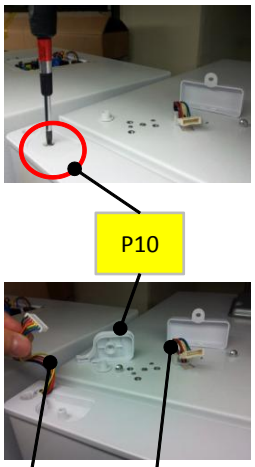
Disassemble "P8"



Disassemble "P9"

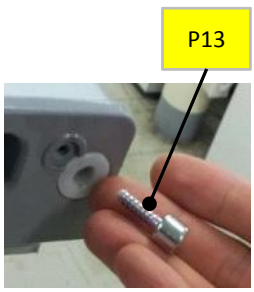


Disassemble "P10"



Disassemble "P12"

Disassemble "P13"



1-5>
Assemble following parts:

P5, P2, P10, P11

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 appiance 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 sings of damage. If in doubt, consult your dealer.

5-2. Tools

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

5-3. Process Summary

1st Step.
R-600a ref.
discharging

- Connect the dis-charging hose to the outdoors.
- Time : 7 min.

2nd Step.
Removing
the remaning refrigerant

- For removing of remaning refrigerant., connect the discharging hose to the vacuum pump
-Time : 10min

3th Step.
Exchanging comp.
& dryer / pipe welding

- Exchange Comp. and Dryer
- Welding the Pipe
- Copper-Copper : 5% rod
- Copper-Steel : 30% rod

4th Step.
Welding
coupling pipe

Coupling cap and gas charging cap should be seperated before welding.

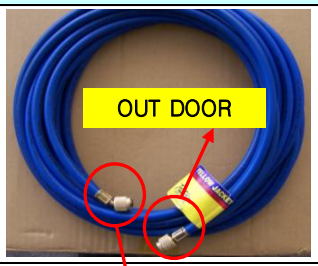
5th Step.
Vacuum

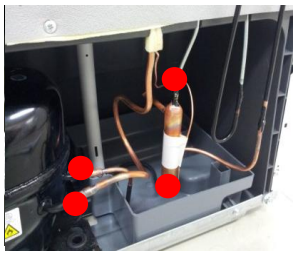
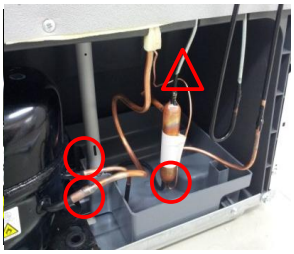
- Check the vacuum with (mani-polder) gauge
- Time : 60~80min

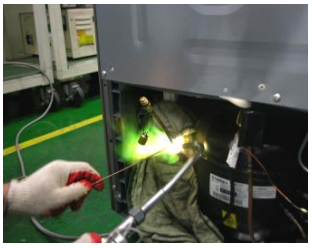
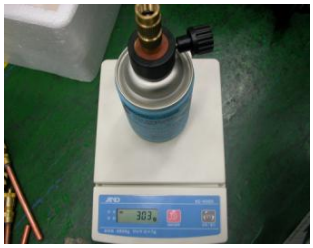
6th Step.
Charge R-600a

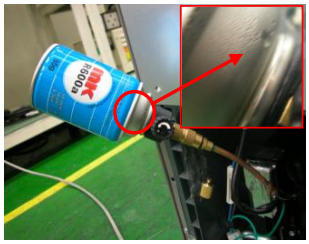
- Charging the ref. on POWER ON
- Time : 10min

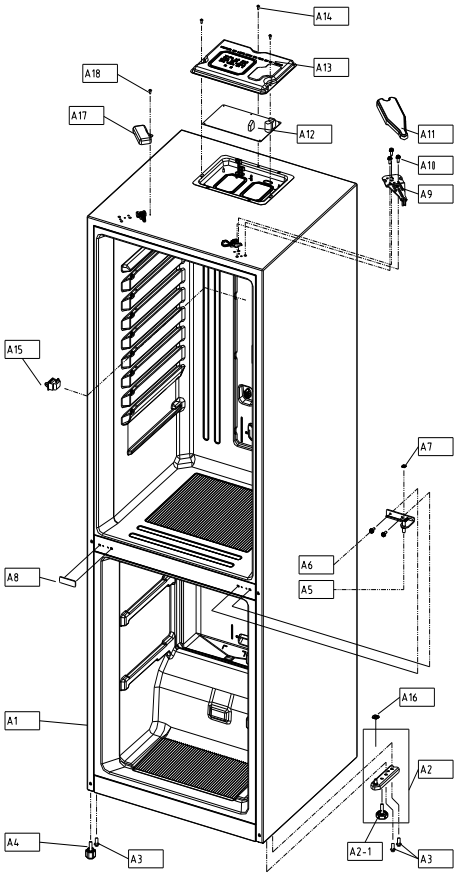
5-4. In Detail Precess

NO.	SVC process	Image	Details
1	Connecting the pinch-plier & discharging hose		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		1. Fix the pinch-plier to the compressor charging pipe. 2. Pinch-plier should not be moving freely. ※ If that is moving freely, it would cause fire/explosion as leakage gas in the room.
3	**Discharging the R-600a ref.**		1. Discharge the R-600a ref. to outdoor. [Befor connecting the vacuum pump] ※ It should have enough time more than 7 minutes to discharge.

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

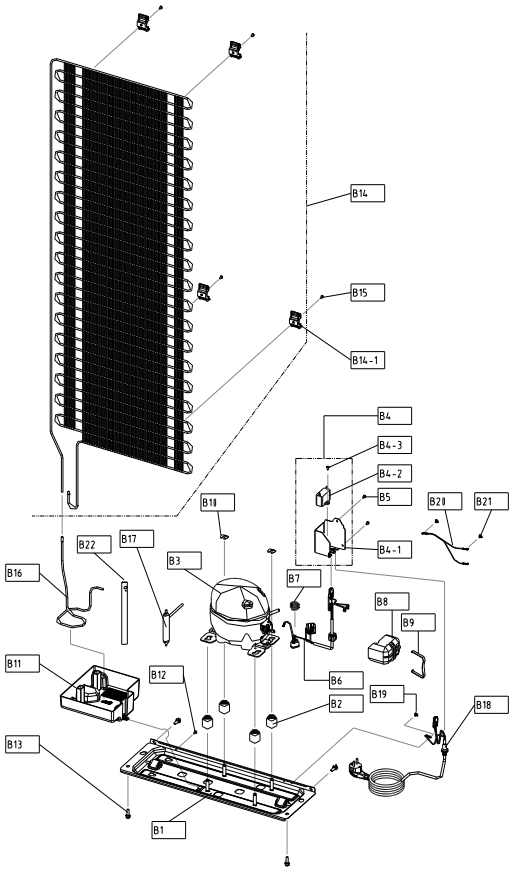
NO.	SVC process	Image	Details
9	Coupling pipe welding		1. Weld after inserting the coupling pipe to the compressor. ※ Use the wet cloth for preventing the other part of machinery-room from damage.
10	Valve reass'y & guage connecting		1. Reassemble the valve ass'y with coupling pipe to clockwise. 2. Connect the blue hose of the guage to the coupling pipe and the yellow hose to the vacuum pump. 3. Open the blue guage lever and start the vacuum pump
11	Vacuum		1. Be vacuumed the cycle with pump. ※ Time : 60~80min => If the vacuum time is less than 60min, ref. COP & air coolong would be weak.
12	Check		1. Check the guage : -76㎝Hg ※ If the cycle is not vacuumed, it would be leak.
13	**Adjusting the amounts of refrigerants (R-600a can)**		1. Check the amounts of R-600a can with scale and discharge the surplus ref. ※ Discharging is surely done at the outdoor where is able to clear air. ※ Tip of adjusting. - Can total weight :160g(Can 75g+Ref. 85g) - Adapter : 145g => Total : 305g - The amounts of charging : 79g => Discharging : 6g => Total : 299g

NO.	SVC process	Image	Details
14	Connecting of coupling pipe & adapta		1. Conect can adapter to the coupling pipe. 2. Charge the ref. with open lever slowly. ※ Refrigerant should never leak in the room.
15	Charging		1. On the power of refrigerator and then start to charge the ref. (10min) ※ Charge the ref. until going out the water vapour condensing on the can outlet.
16	Leakage Test		1. Check the leakage. ※ You must rework from Step.1 when the leakage is detected.
17	Finish		1. Clean and clear around the machinery room when the service is finished. 2. Assemble the machinery room cover.



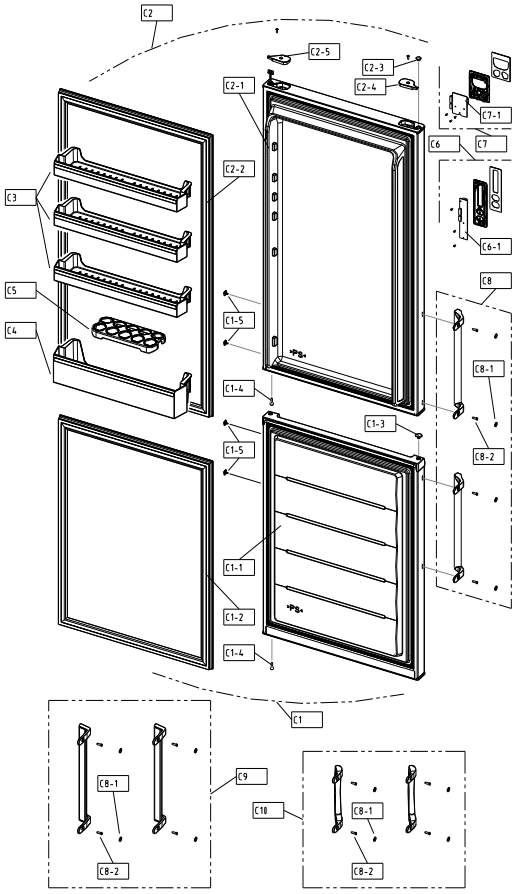
NO	PART-CODE	PART NAME	SPEC.	Q'ty	
				RN-34*	
A1	-	ASSY CAB URT AS		1	
A2	**3012938100**	HINGE *U AS	RFP-301	1	
A2-1	**3012105300**	FOOT ADJ AS	PP+INSERT	1	
A3	**30160A1700**	SPECIAL BOLT	SWCH10A M8*L18	3	
A4	**3012106500**	FOOT ADJ *L AS	PP+INSERT	1	
A5	**3012938000**	HINGE *M AS	RFP-301	1	
A6	**3016001250**	SPECIAL BOLT *M	6X15 SWCH22A(WH)	2	
A7	**3016044410**	SPECIAL WASHER *M HI	SGCC, T1.0XI.D9.0XO.D15	1	
A8	**3010937720**	CAP DV HI HOLE *M	HIPS	1	
A9	**3012938900**	HINGE *T AS	RFP-311	1	
A10	**3016001250**	SPECIAL BOLT *M	6X15 SWCH22A(WH)	3	
A11	**301149DX00** **301149DX10** **301149DX20**	COVER HI *T	PP(WHITE), RFP-311 PP(T/SILVER), RFP-311 PP(BLACK), RPF-311	1	
A12	**30143LE060**	PCB MAIN AS	RFP-311	1	
A13	**3001416640**	COVER M/PCB BOX AS	PCM (BACK COATING)	1	
A14	**7112401211**	SCREW TAPPING	T1 TRS 4*12 MFZN	3	
A15	**301179DP00**	DOOR S/W AS	HC-050K4 250V2.5A	1	
A16	**3816000200**	SPECIAL WASHER	SPCC T1.0 O.D21*I.D8 MFZN	1	
A17	**3001412200** **3001412220** **3001412230**	COVER CAB HRNS	PP(WHITE), RFP-340 PP(T/SILVER), RFP-340 PP(BLACK), RFP-340	1	
A18	**7112401211**	SCREW TAPPING	T1 TRS 4*12 MFZN	1	

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



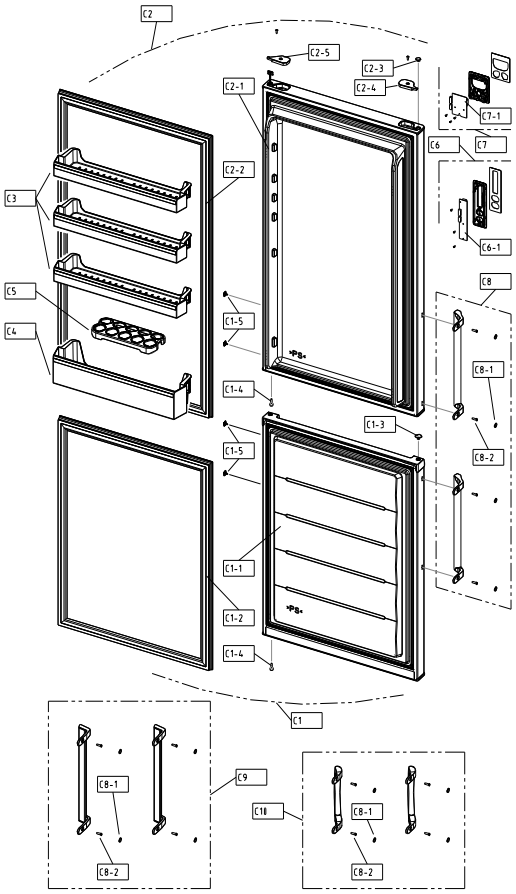
NO	PART-CODE	PART NAME	SPEC.	Q'ty	
				RN-34*	
B1	3010365500	BASE COMP AS	RFP-301	1	
B2	3010103400	ABSORBER COMP	RUBBER	4	
B3	3956188C50	COMPRESSOR	LZ88CY(QLZ12Y) 220-240V 50HZ	1	
B4	3010583700	BOX POWER AS	RFP-301(400V/4UF)	1	
B4-1	3010552101	BOX POWER	GI/T0.5	1	
B4-2	3016406010	CAPACITOR RUN	DMF-40405(400V 4UF)	1	
B4-3	7122401011	SCREW TAPPING	T2S TRS 4*10 MFZN	1	
B5	7112401211	SCREW TAPPING	T1 TRS 4*12 MFZN	2	
B6	3018134600	SWITCH P RELAY AS	B60-120, QP2-15C(RSCR DONPER)	1	
B7	3015103900	SPRING OVERLOAD PROTECTOR	LZ88CY OLP FIXING	1	
B8	3811402600	COVER RELAY	LZ88CY	1	
B9	3015103800	SPRING COVER RELAY	LZ88CY COVER RELAY FIXING	1	
B10	4019H09031	SPECIAL WASHER	SWRH	2	
B11	301119VJ00	CASE VAPORI AS	RFP-301	1	
B12	7112401211	SCREW TAPPING	T1 TRS 4*12 MFZN	1	
B13	3016003300	SPECIAL BOLT	T2 M6.5*20	4	
B14	3014480010	PIPE WI-CON AS	RFP-301	1	
B14-1	3012041500	FIXTURE W-ICON	HIPS	4	
B15	7112402011	SCREW TAPPING	T1 TRS 4X20 MFZN	4	
B16	3014479420	PIPE CONN A	DUCT1-0 OD4.76*T0.5	1	
B17	3016808230	DRYER AS	10G, SINGLE TUBE	1	
B18	3011348111	CORD POWER AS	FR-290(EU), 250V 10/16A	1	
B19	7071400811	SCREW MACHINE	PAN 4X8 SW MFZN+STAR WASHER	1	
B20	3012763210	HARNESS EARTH COMP	FRM-241, L140	1	
B21	7071400811	SCREW MACHINE	PAN 4X8 SW MFZN+STAR WASHER	2	
B22	3012513950	HOSE DRN B	PVC	1	

NO	PART-CODE	PART NAME	SPEC.			Q'ty						
			COLOR	COLOR#	the others	RN-341	RN-342	RN-343	RN-334	RN-335	RN-336	
C1	**30100B9X00**	ASSY F DR	WHITE	DWG1C	RFP-301	1	x	x	x	x	x	
	30100B9X30		AL SILVER	ASG4P	RFP-301							
	30100B9X40		T/SILVER	TSH1P	RFP-301							
	30100B9X50		BLACK	BLH1C	RFP-301							
	30100B9X20	ASSY F DR	WHITE	DWG1C	RFP-302/303	x	1	1	x	x	x	
	30100B9Y80		AL SILVER	ASG4P	RFP-302/303							
	30100B9Y90		T/SILVER	TSH1P	RFP-302/303							
	30100B9YA0		BLACK	BLH1C	RFP-302/303							
	30100B9X10	ASSY F DR	WHITE	DWG1C	RFP-304	x	x	x	1	x	x	
	30100B9X70		AL SILVER	ASG4P	RFP-304							
	30100B9X80		T/SILVER	TSH1P	RFP-304							
	30100B9X90		BLACK	BLH1C	RFP-304							
	30000CPN00	ASSY F DR	WHITE	DWG1C	RFP-305	x	x	x	x	1	x	
	30000CPN10		AL SILVER	ASG4P	RFP-305							
	30000CPN20		T/SILVER	TSH1P	RFP-305							
	30000CPN30		BLACK	BLH1C	RFP-305							
	30000CPQ00	ASSY F DR	WHITE	DWG1C	RFP-306	x	x	x	x	x	1	
	30000CPQ10		AL SILVER	ASG4P	RFP-306							
	30000CPQ20		T/SILVER	TSH1P	RFP-306							
	30000CPQ30		BLACK	BLH1C	RFP-306							
C1-1	-	ASSY F DR URT				1	1	1	1	1	1	
C1-2	**3012330900**	GASKET F DR AS	GRAY			1	1	1	1	1	1	
	3012330910		BLACK									
C1-3	**3011450300**	COVER CAP HOLE A	WHITE		ABS, RFP-340	1	1	1	1	1	1	
	3011450310		SILVER		ABS, RFP-340							
	3011450340		BLACK		ABS, RFP-340							
C1-4	**3016047410**	SPECIAL STOPPER DR BOL			TAP-TITE 5*16	2	2	2	2	2	2	
C1-5	**3010985100**	CAP DR	WHITE		ABS, RFP-340	x	4	4	4	x	x	
	3010985110		SILVER		ABS, RFP-340							
	3010985120		BLACK		ABS, RFP-340							



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

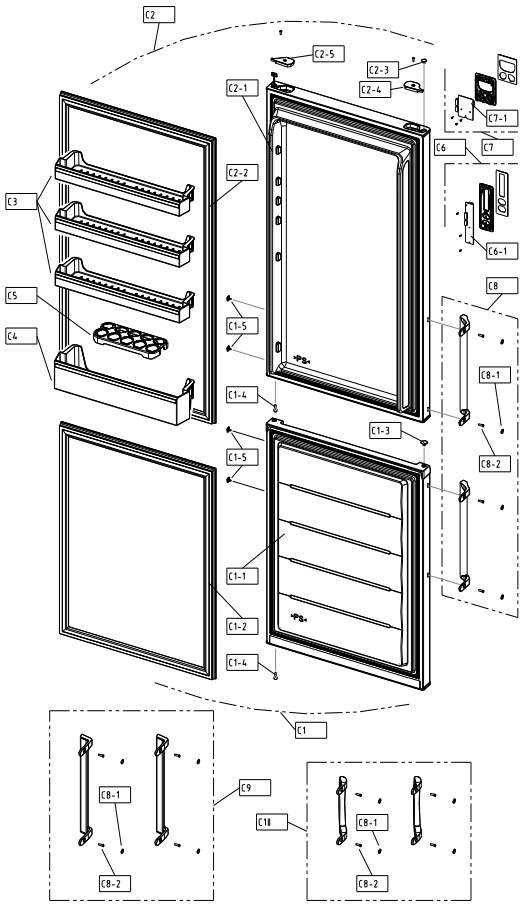
NO	PART-CODE	PART NAME	SPEC.			Q'ty						
			COLOR	COLOR#	the others	RN-341	RN-342	RN-343	RN-334	RN-335	RN-336	
C2	**30100C4600**	ASSY R DR	WHITE	DWG1C	RFP-311	1	x	x	x	x	x	
	30100C4610		AL SILVER	ASG4P	RFP-311							
	30100C4620		T/SILVER	TSH1P	RFP-311							
	30100C4630		BLACK	BLH1C	RFP-311							
	30100C3G00	ASSY R DR	WHITE	DWG1C	RFP-312/313	x	1	1	x	x	x	
	30100C3G10		AL SILVER	ASG4P	RFP-312/313							
	30100C4620		T/SILVER	TSH1P	RFP-312/313							
	30100C3G30		BLACK	BLH1C	RFP-312/313							
	30100C4700	ASSY R DR	WHITE	DWG1C	RFP-314	x	x	x	1	x	x	
	30100C4710		AL SILVER	ASG4P	RFP-314							
	30100C4720		T/SILVER	TSH1P	RFP-314							
	30100C4730		BLACK	BLH1C	RFP-314							
	30100C4800	ASSY R DR	WHITE	DWG1C	RFP-315	x	x	x	x	1	x	
	30100C4810		AL SILVER	ASG4P	RFP-315							
	30100C4820		T/SILVER	TSH1P	RFP-315							
	30100C4830		BLACK	BLH1C	RFP-315							
	30100C4900	ASSY R DR	WHITE	DWG1C	RFP-316	x	x	x	x	x	1	
	30100C4910		AL SILVER	ASG4P	RFP-316							
	30100C4920		T/SILVER	TSH1P	RFP-316							
	30100C4930		BLACK	BLH1C	RFP-316							
C2-1	-	ASSY R DR URT				1	1	1	1	1	1	
C2-2	**3012331000**	GASKET R DR AS	GRAY			1	1	1	1	1	1	
	3012331010		BLACK									
C2-3	**3010974100**	CAP BUSH *T	WHITE		PP, RFP-340	1	1	1	1	1	1	
	3010974110		SILVER		PP, RFP-340							
	3010974120		BLACK		PP, RFP-340							
C2-4	**3011450500**	COVER HI HRNS *T *L	WHITE		PP, RFP-340	1	1	1	1	1	1	
	3011450510		SILVER		PP, RFP-340							
			BLACK		PP, RFP-340							

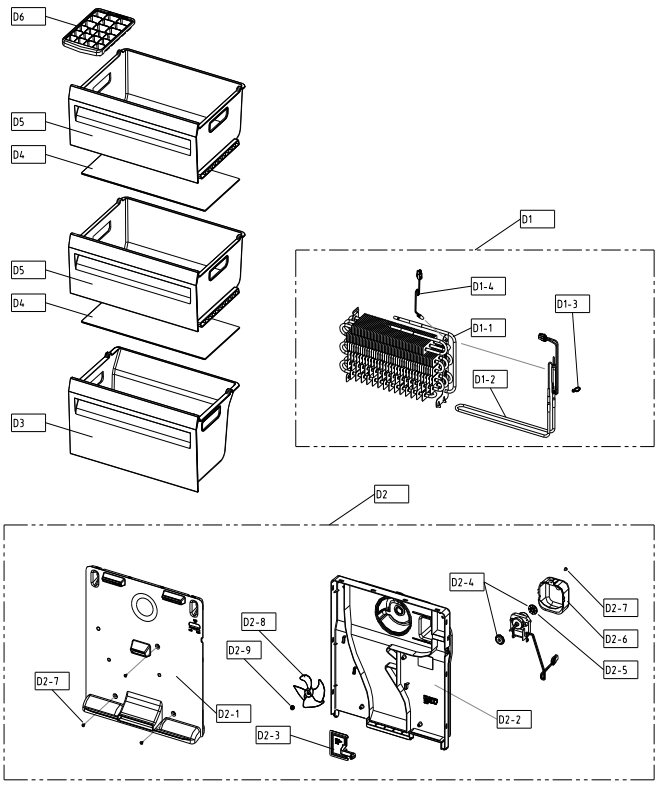


*** Please check the color, some parts code color dependent.***

NO	PART-CODE	PART NAME	SPEC.			Q'ty						
			COLOR	COLOR#	the others	RN-341	RN-342	RN-343	RN-334	RN-335	RN-336	
C2-5	3011450700	COVER HI HRNS *T *R	WHITE		PP, RFP-340	1	1	1	1	1	1	
	3011450710		SILVER		PP, RFP-340							
			BLACK		PP, RFP-340							
C3	3019068700	POCKET R	CRISTAL		GPPS,RFP-301	3	3	3	3	3	3	
	3019068710		GRAY		GPPS,RFP-301							
	3019068720		BLUE									
C4	3019068800	POCKET J	CRISTAL		GPPS,RFP-301	1	1	1	1	1	1	
	3019068810		GRAY		GPPS,RFP-301							
	3019068820		BLUE									
C5	3011190800	CASE EGG TRAY	CRISTAL		GPPS	1	1	1	1	1	1	
C6	3014257200	PANEL *F CONTL AS	GRAY		RFP-311	1	1	1	1	1	1	
	3014257220		BLACK		RFP-311							
C6-1	30143LE160	PCB FRONT AS			RFP-311	1	1	1	1	1	1	
C7	3014257210	PANEL *F CONTL AS	WHITE			x	x	x	x	x	x	
	3014257230		BLACK									
C7-1	30143LE170	PCB FRONT AS				x	x	x	x	x	x	
C8	3014011300	PACKING HNDL AS	WHITE	WH1802B	RFP-302	x	1	x	x	x	x	
	3014011320		AL SILVER	SV3703BM	RFP-302							
	3014011330		T/SILVER	GY7602BM	RFP-302							
	3014011310		BLACK	BK103B	RFP-302							
C9	3014011400	PACKING HNDL AS	WHITE	WH1802A	RFP-303	x	x	1	x	x	x	
	3014011420		AL SILVER	SV3703BM	RFP-303							
	3014011430		T/SILVER	SV5701BM	RFP-303							
	3014011410		BLACK	BK103B	RFP-303							
C10	3014011100	PACKING HNDL AS	WHITE		RFP-304	x	x	x	1	x	x	
	3014011110		SILVER		RFP-304							
	3014011120		BLACK		RFP-304							

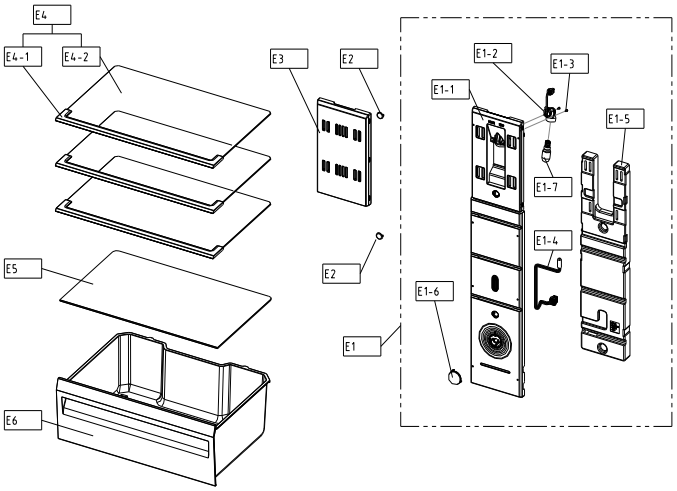
*** Please check the color, some parts code color dependent.***





NO	PART-CODE	PART NAME	SPEC.	Q'ty	
				RN-34*	
D1	3017070000	EVA AS	RFP-301(230V 130W)	1	
D1-1	3017070100	EVA SAS	RFP-301	1	
D1-2	3012831200	HEATER SHEATH AS	RFP-301, 230V, 130W	1	
D1-3	4856813100	CABLE TIE	DA-140	1	
D1-4	3012764100	HARNESS D SENS	RFP-340(NBC-K43-24)	1	
D2	3018932500	LOUVER F AS	RFP-301(AC 230V 50HZ)	1	
D2-1	3018932300	LOUVER F A	PP	1	
D2-2	3018932400	LOUVER F B	PP	1	
D2-3	3013415800	KNOB F CONTL	PP	1	
D2-4	3010107100	ABSORBER F MOTR	NBR	2	
D2-5	3015922200	MOTOR F AS	AC220V/50HZ,2500RPM(S6111BDF04)	1	
D2-6	3010664700	BRACKET FAN MOTR	PP, T2.0	1	
D2-7	7112401211	SCREW TAPPING	T1 TRS 4*12 MFZN	4	
D2-8	3011835900	FAN	OD100,SHAFT OD3.17	1	
D2-9	3011200510	CLAMP FAN	SUS 304 (SPRING)	1	
D3	301119V200	CASE F A	GPPS(GRYSTAL)	1	
	301119V210		GPPS(GRAY)		
	301119V220		GPPS(BLUE)		
D4	3017861500	SHELF GLAS F	T3.2 RFP-301	2	
D5	301119V100	CASE F A	GPPS(GRYSTAL)	2	
	301119V110		GPPS(GRAY)		
	301119V120		GPPS(BLUE)		
D6	3011187310	CASE ICING AS			

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



NO	PART-CODE	PART NAME	SPEC.	Q'ty	
				RN-34*	
E1	301149C430	COVER M/FLOW DUCT AS	RFP-311	1	
E1-1	301149C300	COVER M/FLOW DUCT	HIPS	1	
E1-2	3017903900	SOCKET LAMP AS	AC250V	1	
E1-3	7121300811	SCREW TAPPING	T2S PAN 3X8 MFZN	2	
E1-4	3014811310	SENSOR R AS	RFP-311(PBN-43)	1	
E1-5	3013387900	INSU M/FLOW DUCT	F-PS	1	
E1-6	3013416300	KNOB R CONTL	HIPS,RFP-311	1	
E1-7	3013600020	LAMP AS	240V/15W (E14,CC7A)	1	
E2	3010924600	CAP F LOUVER	HIPS T2.3	2	
E3	3015523800	WINDOW M/FLOW DUCT	GPPS	1	
E4	3017861100	SHELF R AS	RFP-301	3	
E4-1	3011664700	DECO SHELF *F	HIPS	1	
E4-2	3017861200	SHELF GLAS R	T3.2	1	
E5	301119V400	CASE GLAS VEGTB	T3.2	1	
E6	301119V000	CASE VEGTB	GPPS(CRYSTAL)	1	
	301119V010		GPPS(GRAY)		
	301119V020		GPPS(BLUE)		

*** Please check the color, some parts code color dependent.***
Some parts can be changed for improving without notice.

Date	Note