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WARNINGS AND PRECAUTIONS FOR SAFETY

Please observe the following safety precautions in order to use safely and correctly the refrigerator and to prevent accident and danger during repair.

1. Be care of an electric shock. Disconnect power cord from wall outlet and wait for more than three minutes before replacing PCB parts.
   Shut off the power whenever replacing and repairing electric components.

2. When connecting power cord, please wait for more than five minutes after power cord was disconnected from the wall outlet.

3. Please check if the power plug is pressed down by the refrigerator against the wall.
   If the power plug was damaged, it may cause fire or electric shock.

4. If the wall outlet is over loaded, it may cause fire.
   Please use its own individual electrical outlet for the refrigerator.

5. Please make sure the outlet is properly earthed, particularly in wet or damp area.

6. Use standard electrical components when replacing them.

7. Make sure the hook is correctly engaged.
   Remove dust and foreign materials from the housing and connecting parts.

8. Do not fray, damage, machine, heavily bend, pull out or twist the power cord.

9. Please check the evidence of moisture intrusion in the electrical components.
   Replace the parts or mask it with insulation tapes if moisture intrusion was confirmed.

10. Do not let the customers repair, disassemble and reconstruct the refrigerator for themselves.
    It may cause accident, electric shock, or fire.

11. Do not store flammable materials such as ether, benzene, alcohol, chemicals, gas, or medicine in the refrigerator.

12. Do not put flower vase, cup, cosmetics, chemicals, etc., or container with full of water on the top of the refrigerator.

13. Do not put glass bottles with full of water into the freezer.
    The contents shall freeze and break the glass bottles.

14. When you scrap the refrigerator, please disconnect the door gasket first and scrap it where children are not accessible.

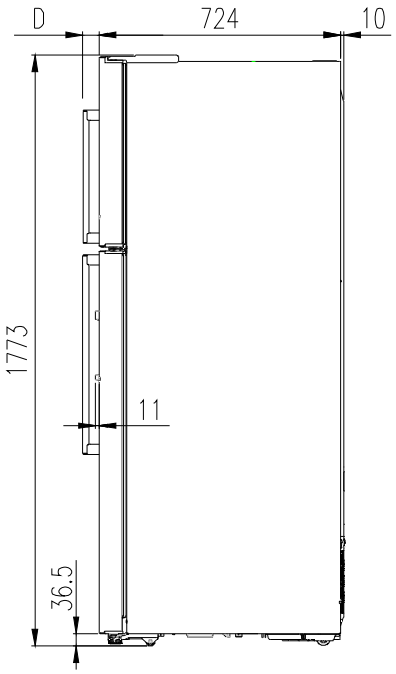
1. SPECIFICATION

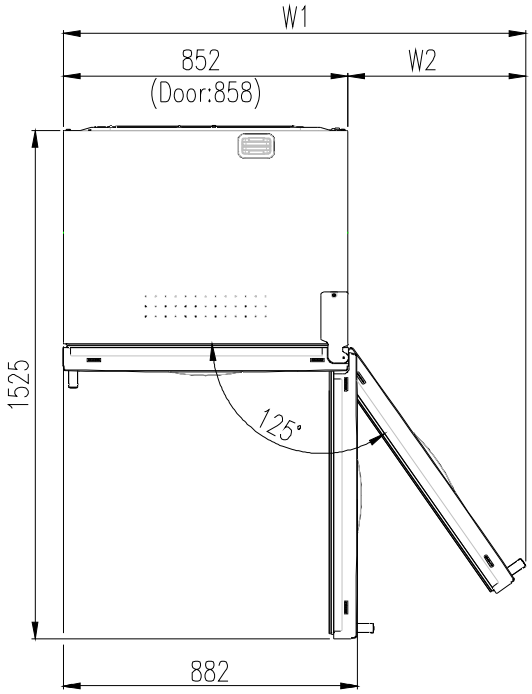
Item		Specification
ISO Gross Volume (Li)	Total	**597 Li**
	Freezer Compartment	**185 Li**
	Fresh Food Compartment	**412 Li**
ISO Storage Volume (Li)	Total	**506 Li**
	Freezer	**106 Li**
	Refrigerator	**400 Li**
Weight	Non dispenser model	**91Kg**
	Dispenser model	**92Kg**
External Dimension (Width x Depth x Height)	Non dispenser model	**768 mm X 732 mm X 1770 mm**
	Dispenser model	**768 mm X 744 mm X 1770 mm**

2. EXTERNAL VIEW

DIMENSION: D

	D
PROFILO	52
SIEMENS	60
BOSCH	51.3



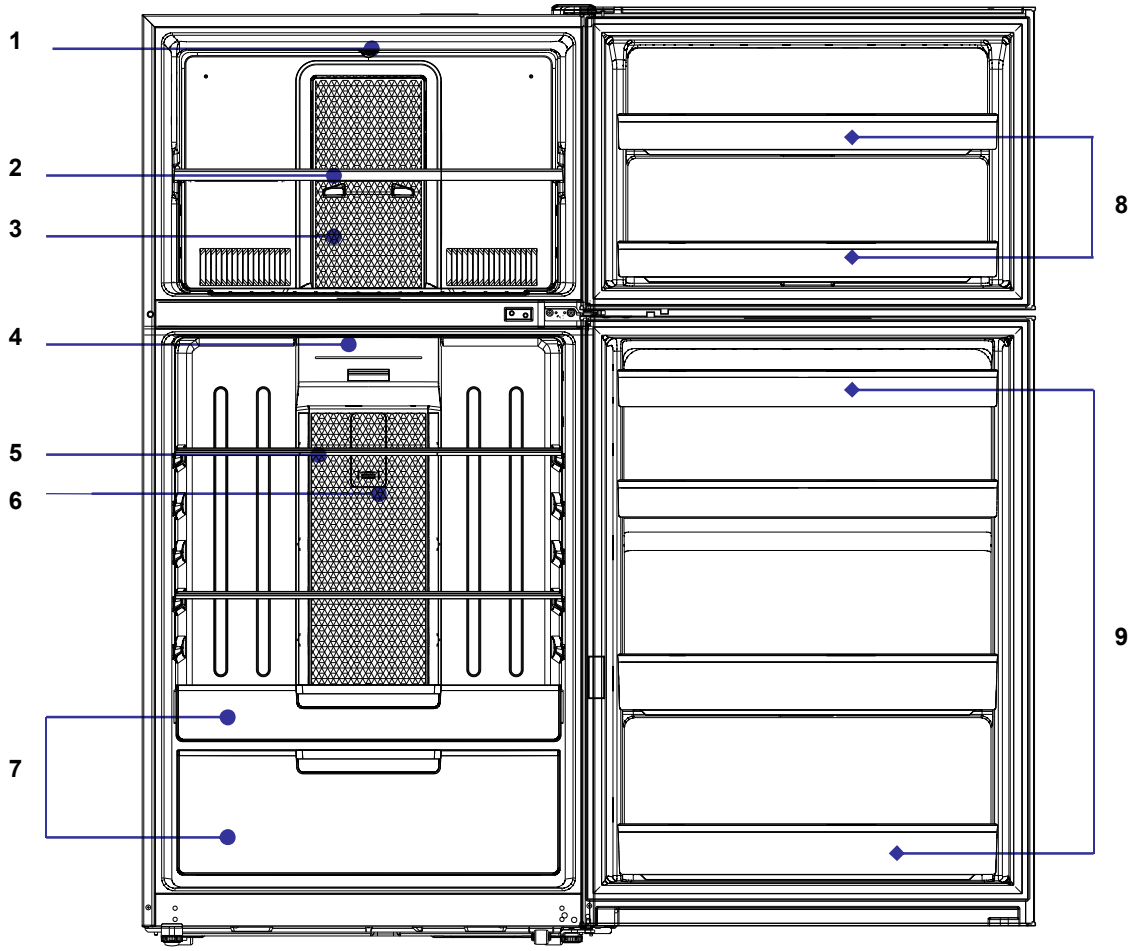


DIMENSION: W1,W2

	W1	W2
PROFILO	1386	534
SIEMENS	1389	537
BOSCH	1383	531

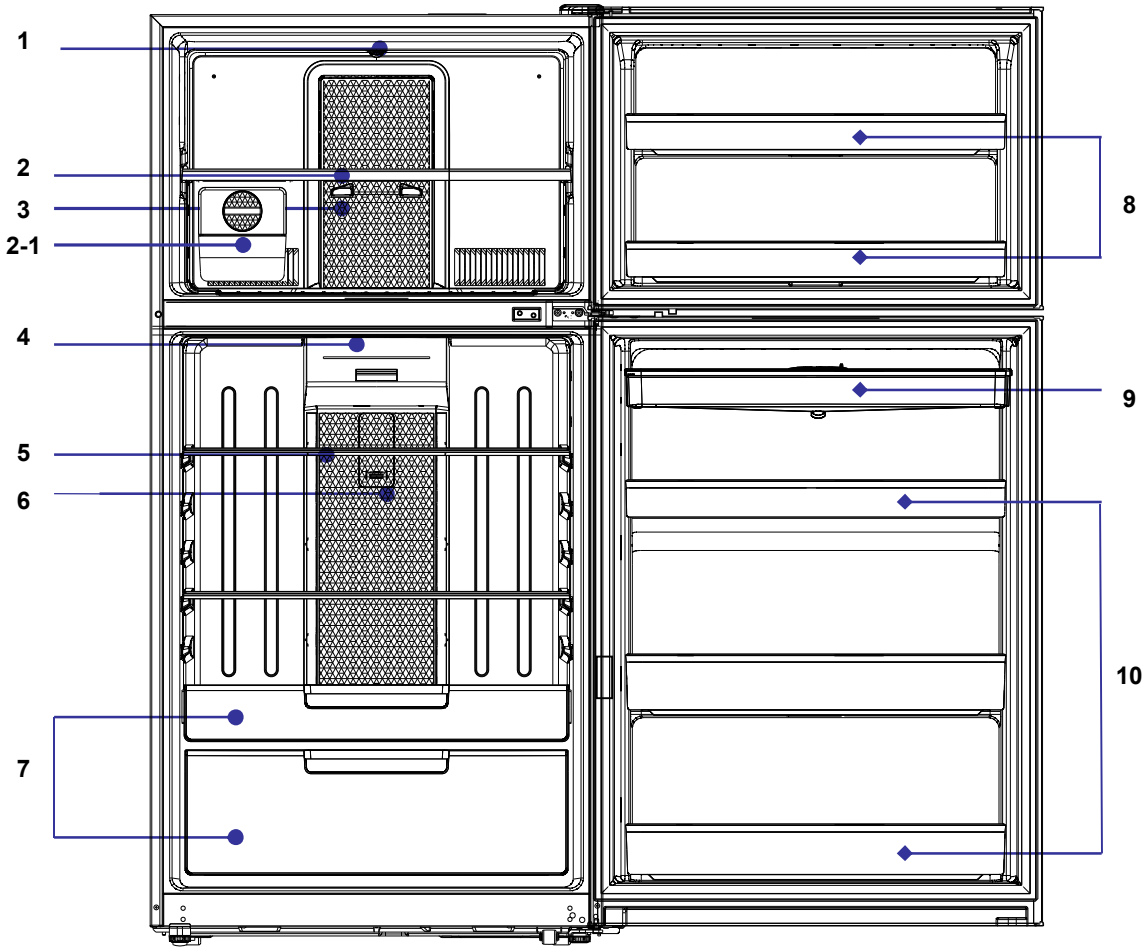
3. Name Of Each Part

Non Dispenser Model



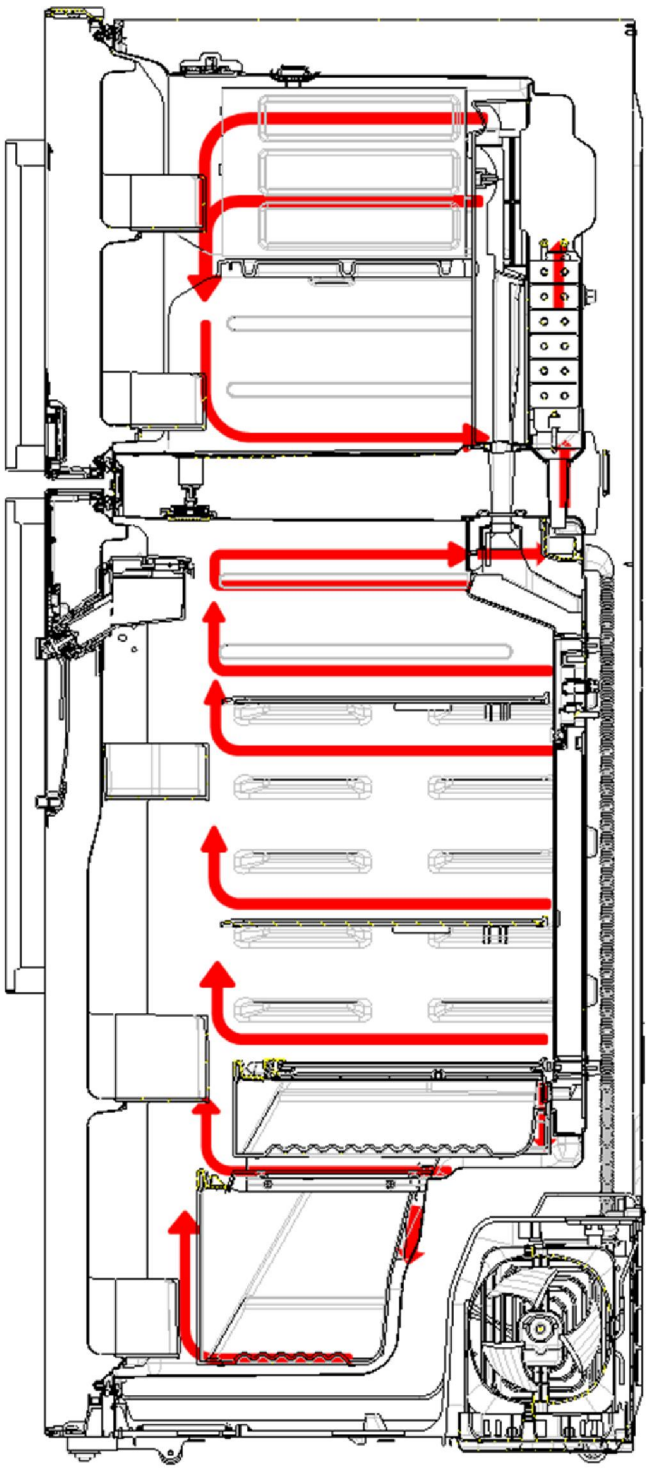
1. Freezer Compartment LED Lamp	6. Fresh Food Compartment Sensor
2. Freezer Compartment Shelf	7. Vegetable Case
3. Freezer Compartment Temperature Controller	8. Freezer Compartment Pockets
4. Fresh Food Compartment LED Lamp	9. Fresh Food Compartment Pockets
5. Fresh Food Compartment Shelves	

Dispenser Model

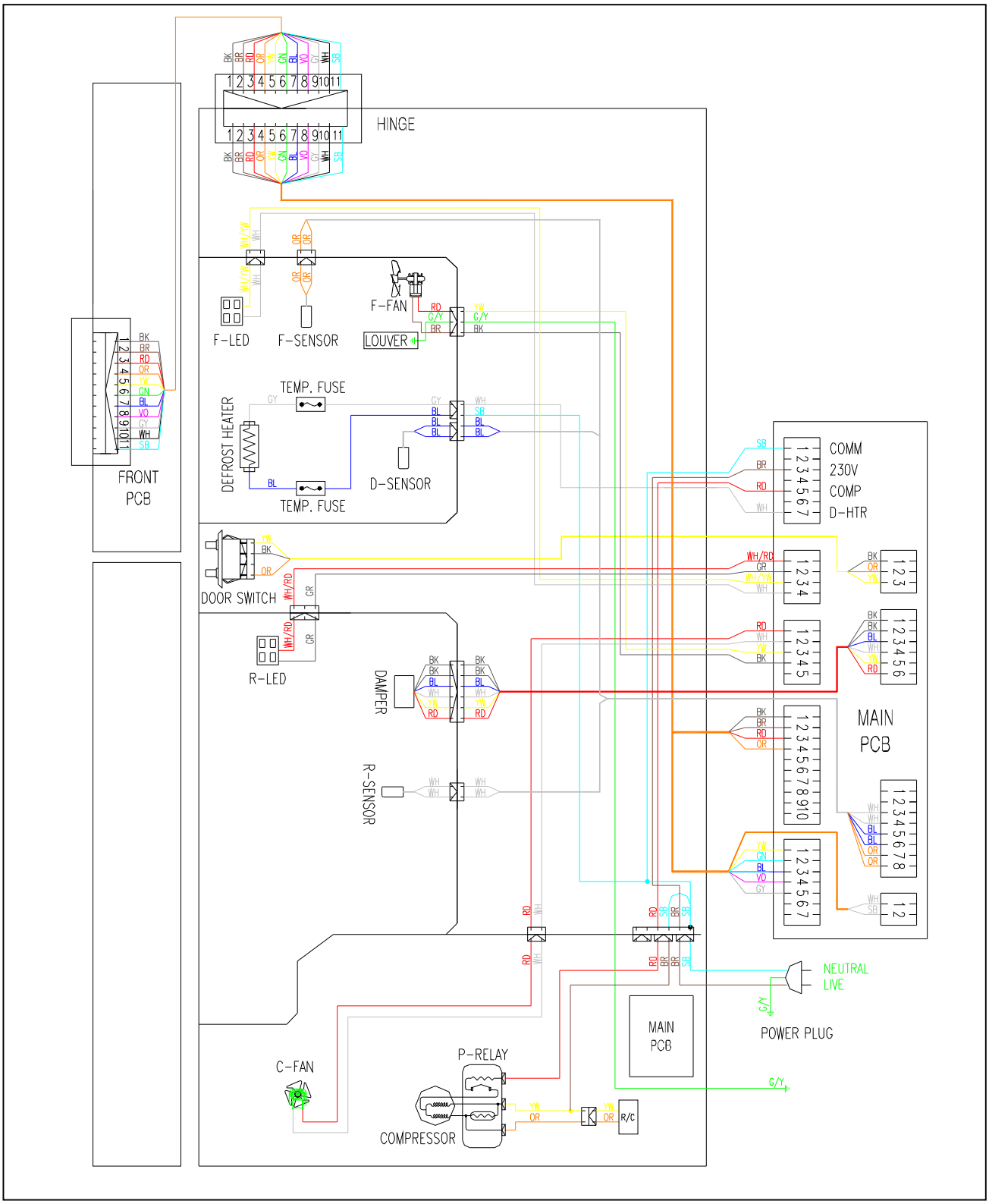


1. Freezer Compartment LED Lamp	6. Fresh Food Compartment Sensor
2. Freezer Compartment Shelf	7. Vegetable Case
2-1. Twist Ice Maker(Option)	8. Freezer Compartment Pockets
3. Freezer Compartment Temperature Controller	9. Water Tank
4. Fresh Food Compartment Lamp	10. Fresh Food Compartment Pockets
5. Fresh Food Compartment Shelves	

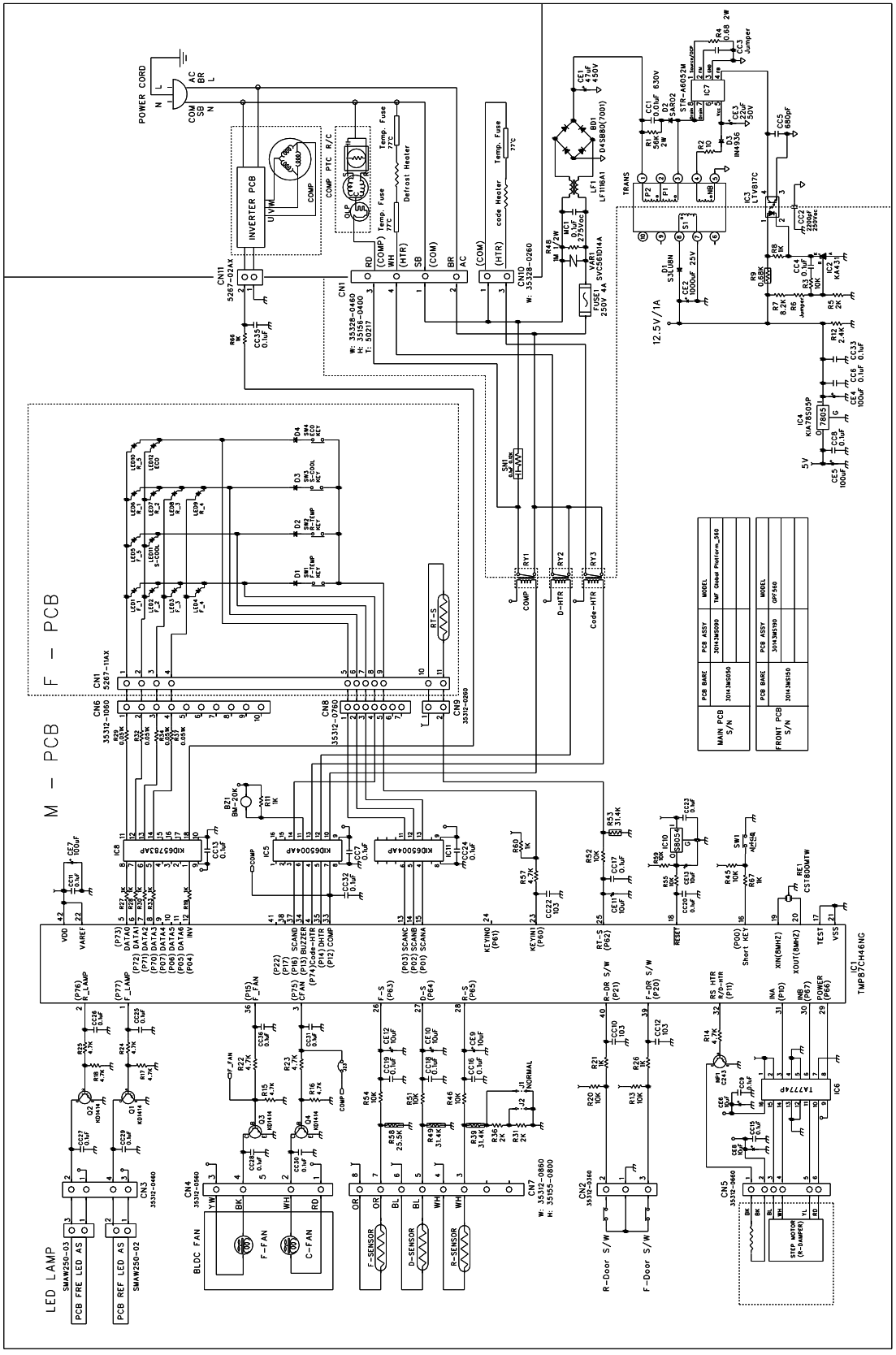
4. Cold Air Circulation



5. Wiring Diagram



6. PCB CIRCUIT DIAGRAMS

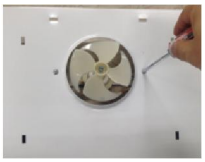
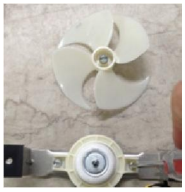
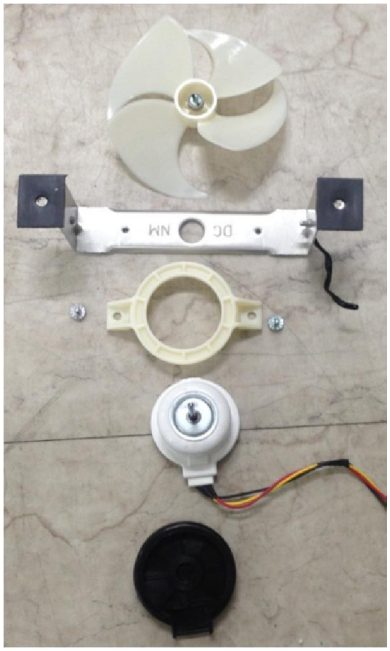


7. How To Replace The Parts

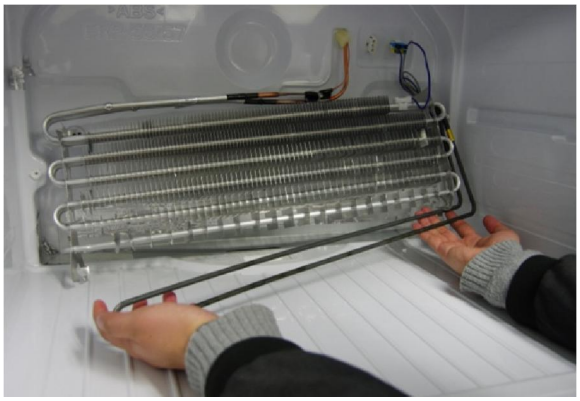
7-1. Freezer Louver Part

No	Photos	Description
1		- Remove 'Freezer Shelf' at first.
2		- Remove 4 screws on 'Freezer Louver'.
3		- Pull forward the 'Freezer Louver'. - Then disconnect 'Freezer Motor'.
4		- Disassemble the 'Cover Fan F AS'. - Be careful not to damage the hook.

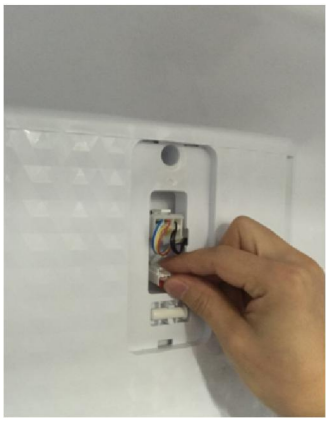
7-2. Freezer Motor As

No	Photos	Description
1	 	- Remove 2 screws. - Remove Clamp Fan with pliers and then disassemble 'Fan' with (-) driver.
2		- Remove the screws holding the bracket.
3		- Now disassemble the 'Freezer Motor'.

7-3. Evaporator

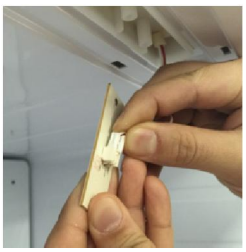
No	Photos	Description
1		- Pull forward the evaporator and pipes. - Be careful not to bend the pipes.
2		- Disconnect 'Defrost Heater' lead wire on the right. - Disconnect 'Defrost Sensor' lead wire - Cut off the cable tie on the wire
3		**< Defrost Heater >** - Bend the hook on the bottom of evaporator side plate, then remove the defrost heater.

7-4. M/Flow-Duct

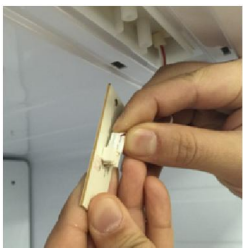
No	Photos	Description
1		- Remove ‘SHELF R’ - Remove ‘CASE FRESH’ - Remove ‘Shelf fresh case as’
2		- Remove ‘Deco M/F Duct’ with (-) driver. - Remove ‘Cover sensor’ with (-) driver.
3		- Disassemble the R ‘Sensor ‘

7-5. LED Lamps

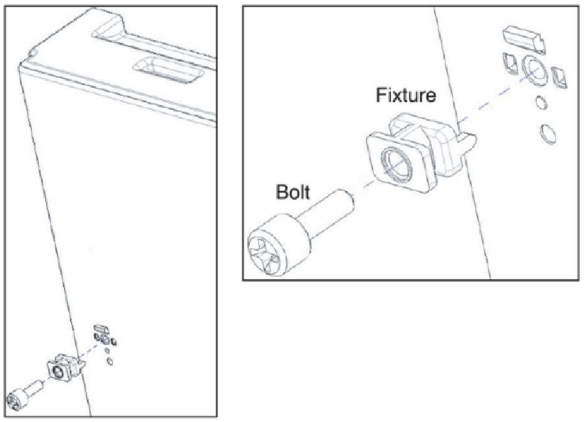
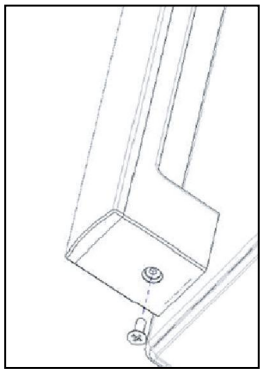
Freezer compartment LED lamp

No	Photos	Description
1		- Remove 'Freezer Lamp Window'. - Be careful not to damage the hook.
2		- Remove the screw on the LED lamp. - Disconnect 'LED Lamp' lead wire.

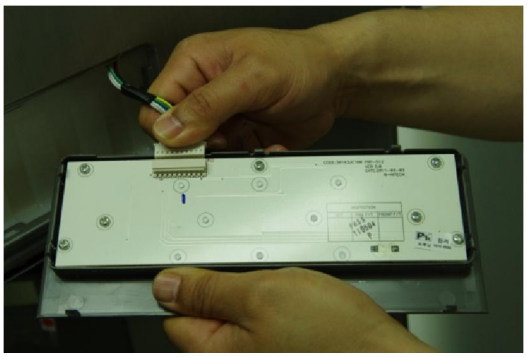
Fresh Food compartment LED lamp

No	Photos	Description
1		- Remove 'Refrigerator Lamp Window'. - Be careful not to damage the hook.
2		- Remove the screw on the LED lamp. - Disconnect 'LED Lamp' lead wire.

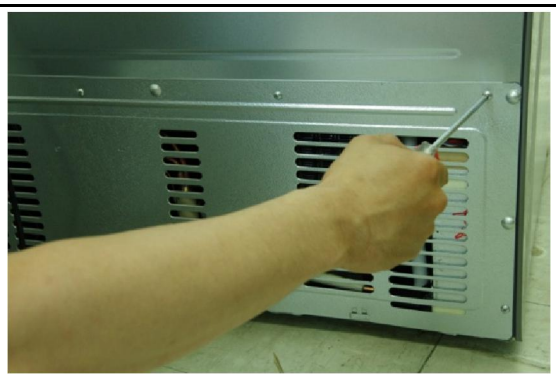
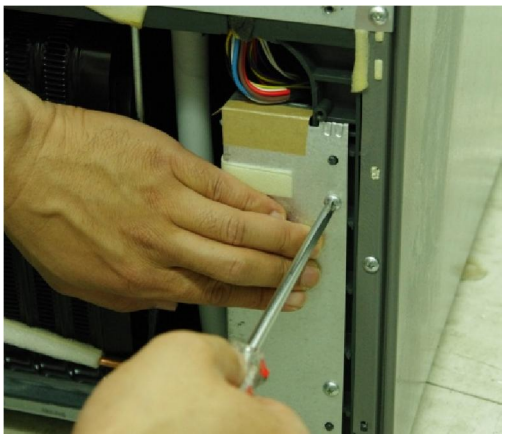
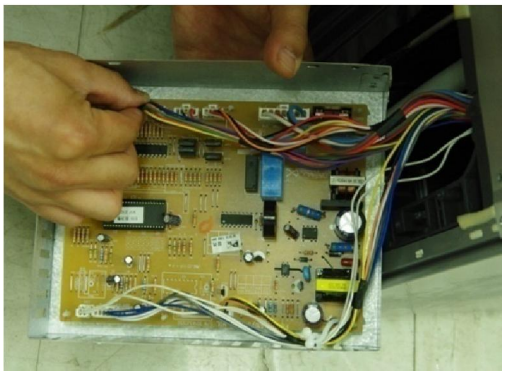
7-6. Handle Installation

No	Photos	Description
1		- Attach the 'Fixture' on the cabinet and Screw the bolt.
2		- Align door handle with fixture and pull the handle down (Be careful the direction)
3		- Fasten the screw in the hold of handle.

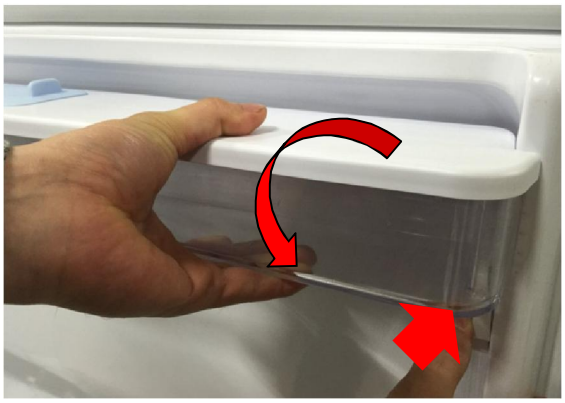
7-7. Front PCB

No	Photos	Description
1		- Unlock the hook on the botton of the ‘Front PCB ‘ with (-) driver.
2		- Disassemble the ‘Front PCB’.
3		- Disconnect ‘Front PCB‘ lead wire.

7-8. MAIN PCB

No	Photos	Description
1		-Remove the screws and disassemble the 'Grille As'.
2		- Remove the screws and disassemble the 'Box Main PCB As'.
3		- Disconnect Hosings on the 'Main PCB'.

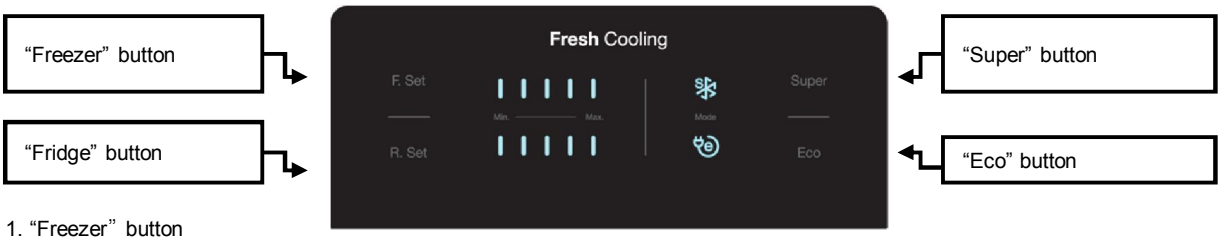
7-9. Water Dispenser

No	Photos	Description
1		- Push the ‘Stopper Water Tank‘, then pull and remove the ‘Water Tank As’.
2		- Remove the Pin the bottom of ‘Panel Dispns As’ with (-) driver.
3		- Disassemble the ‘Panel Dispns As’.

8. PCB CONTROL FUNCTION

8-1. DISPLAY

INPUT	CONTROL OBJECT
● PCB Control Panel Buttons	● PCB Control Panel LED



1. "Freezer" button

(1) When Push "Freezer" button , it controls temperature by step(5Step) and when input electric source, initial setting displays '**Medium**' temperature.

* Display sequence : (Medium)→(Medium_Max)→(Max)→(Min)→(Min_medium) , ※ Rotation

(2) When selecting each dial, it operates with selected dial indication value.

(3) Adjust Freezer set temperature and display

Display					
Temperature Adjust	Min	Min_medium	**Medium**	Medium_max	Max

2. "Fridge" button

(1) When Push "Fridge" button , it controls temperature by step(5Step) and when input electric source, initial setting displays '**Medium**' temperature.

* Display sequence : (Medium) → (Medium_Max) → (Max) → (Min) → (Min_medium) , ※ Rotation

(2) When selecting each dial, it operates with selected dial indication value.

(3) Adjust Refrigerator set temperature and display

Display					
Temperature Adjust	Min	Min_medium	**Medium**	Medium_max	Max

3. "Super" button

(1) When Push "Super" button , it controls "Super" mode and when input electric source, initial setting is "Super-off".

* Mode sequence : F Super → R Super → F and R Super → Super Off , ※ Rotation

(2) When seleced "Super" mode , "Super Icon" is displayed after blinking 6 times and "Temperature Led" of the selected mode is on as next steps. **[** "Min" → "Min_medium" → "Medium" → "Medium_max" → "Max" , ※ Ratation **]**

.

4. "Eco" button

(1) When Push "Eco" button , it controls "Eco" mode and when input electric source, initial setting is "Eco-off".

* Mode sequence : Eco On → Eco Off , ※ Rotation

(2) When seleced "Eco" mode , "Eco Icon" is displayed after blinking 6 times.

5. Display off function (PCB energy saving function)

(1) When it passes 1minutes without key operation or door operation, All Led become off.

(2) When there is operation for key or door at LED off condition, LED display with normal condition.

8-2. Temperature Control of Freezer Compartment

INPUT	CONTROL OBJECT
● PCB Control Panel “Freezer” button ● R-sensor	● PCB Control Panel LED ● COMPRESSOR, FAN

1. Adjust temperature mode of Freezer using adjust freezer.
   Temperature adjusting steps: Min → Min_medium → Medium → Medium_max → Max

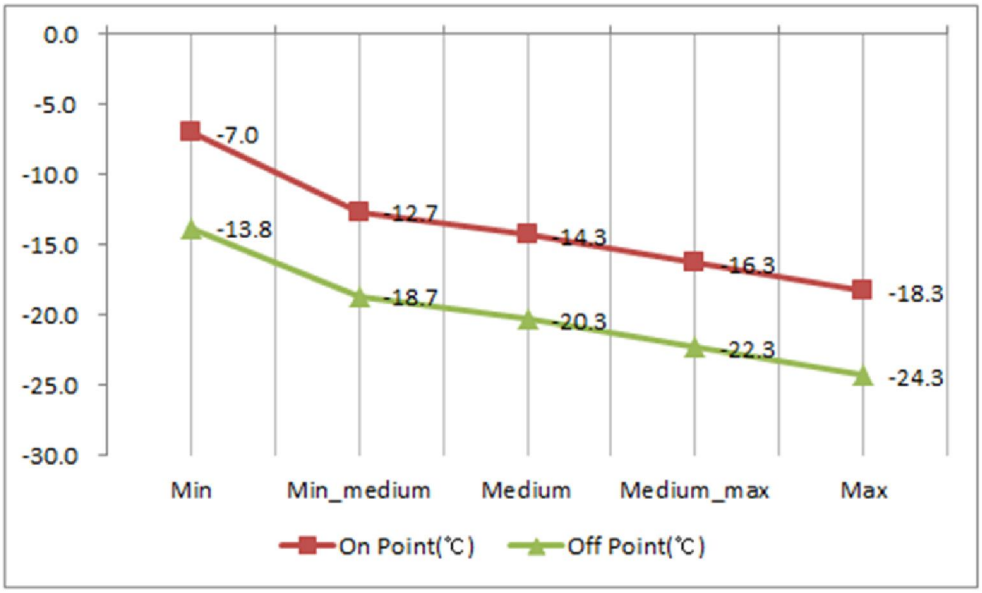
2. Compressor and F-Fan is controlled by on/off point of each mode.

3. Freezer on/off difference : 6℃
   (Off point among freezer dial: -20.3℃)

4. Freezer step difference
   (1) Min → Min_medium : 5 deg.
   (2) Min_medium → Medium → Medium_max → Max : 2 deg. for each step.

5. Super freezer
   (1) Super freezer operates for 24 hours with F-dial ‘Max’ set value.

6. Control point per each mode



8-3. Temperature Control of Refrigerator Compartment

INPUT	CONTROL OBJECT
● PCB Control Panel “Fridge” button ● R-sensor	● PCB Control Panel LED ● COMPRESSOR, FAN

1. Adjust temperature mode of refrigerator by pressing adjust refrigerator.
   Temperature adjusting steps: Min → Min_medium → Medium → Medium_max → Max

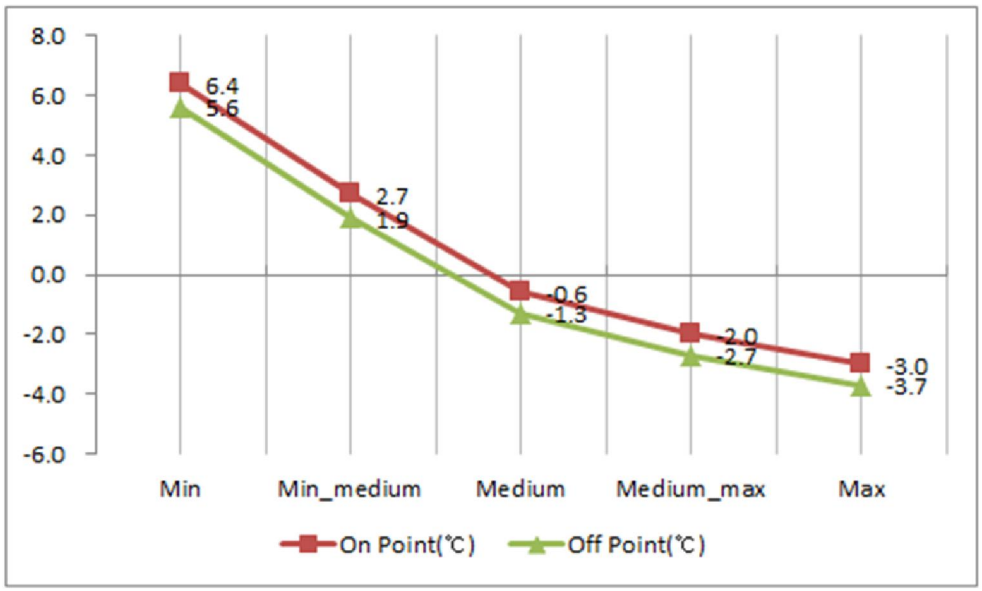
2. R-damper is controlled by on/off point of each mode.
   (1) When R-damper is opened, F-Fan becomes on condition regardless of compressor operation.
   (2) When R-damper is closed, F-Fan is connected operation with compressor operation.

3. Refrigerator on/off difference : 0.7℃
   (Off point of refrigerator: -1.3℃)

4. Refrigerator step difference
   - Min → Min_medium : 3.7 deg.
   - Min_Medium → Medium : 3.2 deg.
   - Medium → Medium_max : 2.6 deg.
   - Medium_max → Max : 1.0 deg.

5. Super fridge
   (1) Super fridge operates until the inside temperature becomes R-damer close point - 2 ℃, or for 40 minutes

6. Control point per each mode



8-4. Defrost Mode

INPUT	CONTROL OBJECT
● Total COMP Work Time ● COMP Working Rate ● Total Door Open Time ● RT	● Defrost Mode

● Conditions of Defrost Mode

A. When total operation time of compressor becomes: 6, 8, 10, 12 hours.

ⓐ any error mode-R1, F1, D1, F3, C1, RT/S, Door SW error- happens.

ⓑ or, running rate of COMP (per 2hrs of total operation time) is more than 90%.

ⓒ or, total door open time is over 2 minutes.

ⓓ However, in case ambient temperature (RT) is mode than 36°C, total operation time of compressor 6,8,10 hours is excluded.

ⓓ However, in case ambient temperature (RT) is more than 35°C less than 36°C, total operation time of compressor 6 hours is excluded.

B. Even if the above condition "**A**" is not satisfied,

ⓐ Defrost mode starts immediately when total operation time of COMP is 14hrs.

ⓑ or, defrost mode starts immediately as long as total time (COMP on time + COMP off time) is 60 hrs.

ⓒ or, In case RT-mode is "Low_A" or "Low_B" , defrost mode starts immediately as long as total time (COMP on time + COMP off time) is 24 hrs.

● Defrost Mode

A. General Defrost Mode

ⓐ How to start: By conditions of defrost

ⓑ Process :

General operation→

"PRE-COOL" → Defrost Heater on→ Pause(10 min)→ General operation

※ PRE-COOL: When the defrost heater works, the temp. of freezer increases. So the COMP works for 25 min before defrost mode.

ⓒ Limited Time of Defrost Heater

- 40 minutes: Heater turns off when "D SENSOR" is OPEN or SHORT.
- 50 minutes: Heater turns off after 50 minutes.

ⓓ Heater Off: When the temperature at "D SENSOR" is over 10°C

	PRE-COOL	Defrost Mode	Pause
Compressor	ON	OFF	OFF
Fan	ON	OFF	OFF
Defrost Heater	OFF	ON	OFF

B. Forced Defrost Mode

ⓐ How to start: by press "Freezer" button for continuously and "Super" button 5 times.

ⓑ Process: same as General Defrost Mode except "PRE-COOL"

※ Heater is on Initial 30 seconds even though the temp. at "D SENSOR" is over 10°C. (for TEST)

ⓒ How to confirm : All led blinks for 3 seconds.

8-5. Defrost Mode

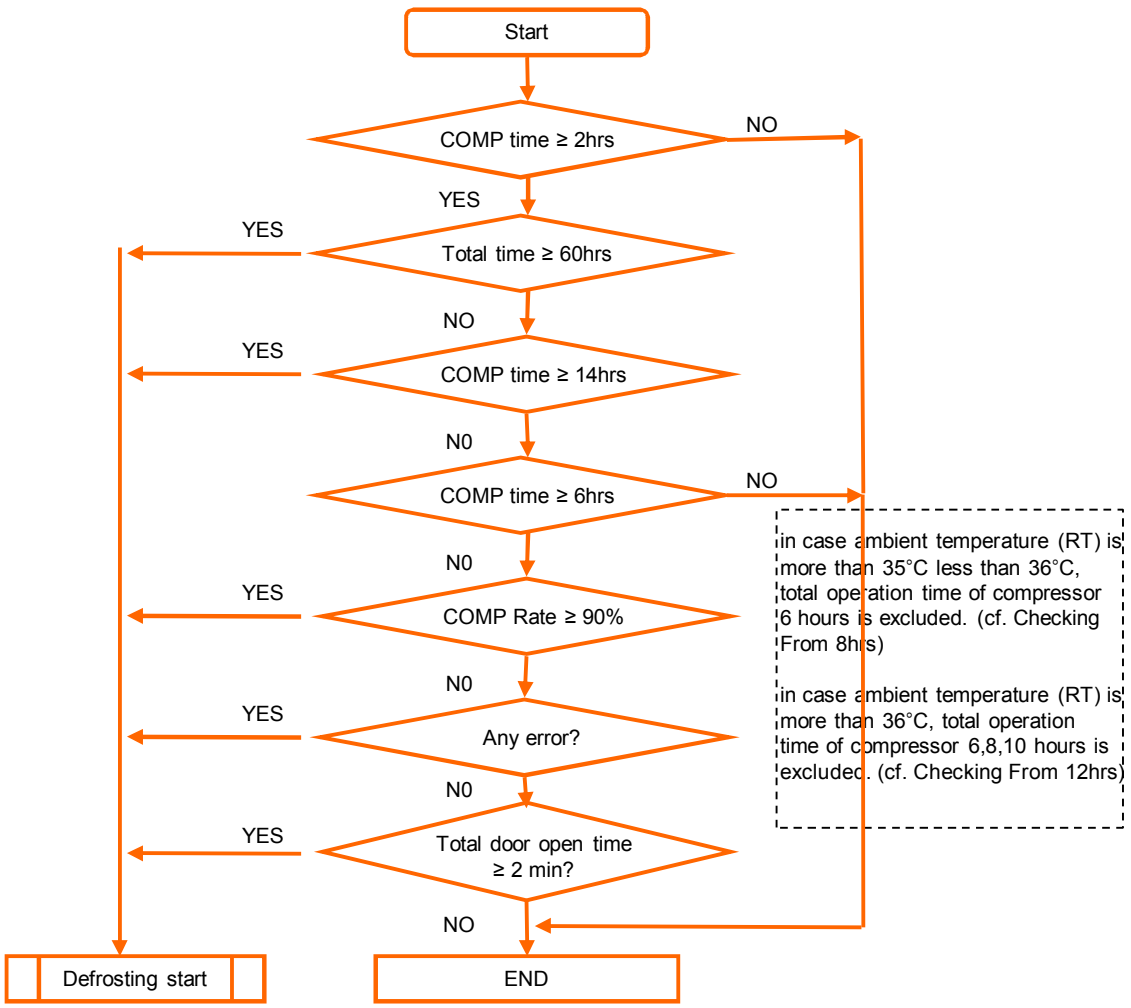
INPUT	CONTROL OBJECT
● Total COMP Work Time ● COMP Working Rate ● Total Door Open Time ● RT	● Defrost Mode

● Initial Defrost

A. In providing initial power or returning power failure,
if the temperature at the D-sensor is under 3.5°C, Defrost Mode starts. (It proceeds from "PRE-COOL".)
["PRE-COOL" → Heater on → Pause(10 min) → General operation **]**

B. Initial defrost mode starts after "Prevention of Compressor Restart". (Refer to Function No. 5)

● Flow Chart of Defrost Start



8-6. Prevention of Compressor Restart	
INPUT	**CONTROL OBJECT**
	● COMP

COMP. doesn't work after COMP turns off even though F-sensor is on condition. (This is to protect comp.)
: The COMP can't be on within 6 min.

8-7. Buzzer Sound	
INPUT	**CONTROL OBJECT**
● Control Buttons ● Door Switch ● Initial Power Input	● Buzzer

A. Whenever "PCB Control Panel" button's pushed, the buzzer rings.
B. After 2 seconds power's on, the buzzer rings 3 times.
C. Time of Buzzer: Forced Defrost Mode (3 times), Short Circuit Test (1 time)
D. When door opens, the buzzer rings every 1 minute for 5 minutes.

8-8. Short Circuit Test

INPUT	CONTROL OBJECT
● "Eco, Fridge" Button	● COMP & FAN

A. How to start: by pressing "Eco" button for continuously and "Fridge" button 10 times continuously.

B. How to control:

ⓐ COMP & FAN will be on independent of the operating condition. (There is no defrost mode on this test.)

ⓑ It is available to restart the test and it'll be take 30 hours.

C. CANCEL : after the limit test time 30 hours passes.

8-9. Time Reduction

INPUT	CONTROL OBJECT
● "S/Time KEY"	● Buzzer

A. How to use

ⓐ 1 min : Click S/Time KEY one time on MAIN PCB.

ⓑ 30 min : If you press S/Time KEY continuously, you can reduce 30 minutes on each 2.5 seconds with buzzer.

B. Practice Use : Can be applied to reduce needless time on test.

EX) function of stop for 6 min

8-10. Demonstration Function

INPUT	CONTROL OBJECT
● "Eco" + "Super" Buttons	● Display Panel

A. How to start : by pressing "Eco" button for continuously and "Super" button 10 times continuously.

B. CONTROL :

ⓐ All electronic compartments are off except "Display Panel".

ⓑ When "DEMO" mode works, led lamps will be on as next steps.

* Dial LED : Min → Min_medium → Medium → Medium_max → Max , ※Ratation
* Icon LED : Super → Eco , ※Rotation

D. CANCEL :

By pressing "Eco" button for continuously and "Super" button 10 times continuously,
or turn off power and restart.

8-11. Control of R-sensor OFF Point

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

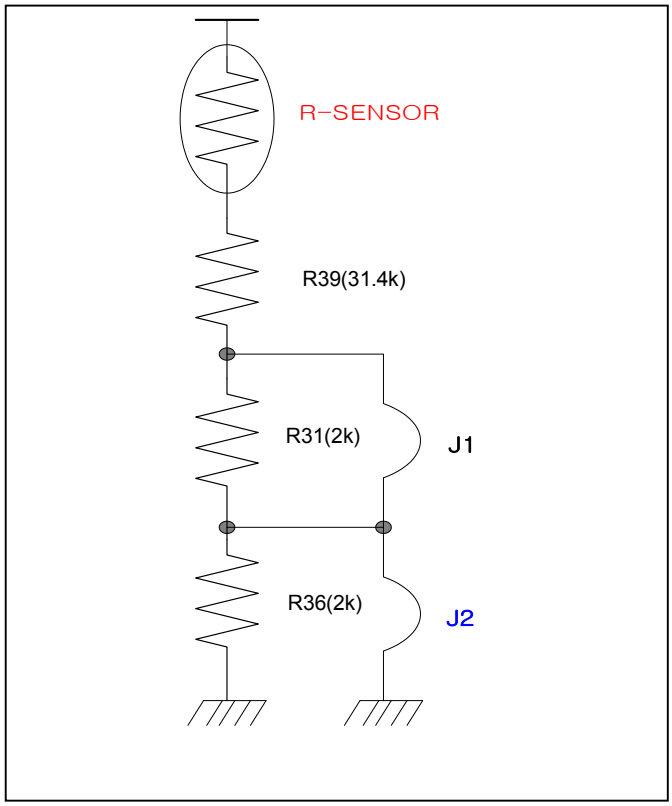
A. LOW COOLING OPTION

- When the refrigeration of refrigerator is poor or weak though Fan and COMP are working continuously, the following actions are recommended for service.
  - ● Resistance (R39) : Default resistance (31.4Kohms)
  - ● Resistance (R31) : Cut the "J1" off to reduce basic resistance by 1.5°C. (2KΩ up)
  - ● Resistance (R36) : Cut the "J2" off additionally to reduce basic resistance by 1.5°C. (total 4KΩ up)

R39 = R-SENSOR OFF point

R31+ R39 = R-SENSOR OFF point - 1.5°C

R31 + R36 + R39 = R-SENSOR OFF point - 3°C



8-12. Error Display

INPUT	CONTROL OBJECT
● PCB Control Panel Buttons ● Door	● LED Lamp

- ERROR DISPLAY
  - To confirm error happens or not, push "Freezer" button for continuously and "Fridge" button 5 times.
  - Display method: Displays error code using Led Lamp.
  - Release method: Automatic release after pressing 1 time of "Eco"button and 4 minutes passed by.
  - Automatic reset becomes when all error codes return to normal condition.
  (But for C1,F3 etc become reset after reoperation point of relevant electrical goods and after finish cycle)

A. F1 ERROR

(It happens when F-Sensor is OPEN or SHORT)

ⓐ DISPLAY : Open error - "Freezer Min Led" is On.
Short error - "Freezer Min Led" blink.

ⓑ CONTROL :
- Controlled by the following condition of RT
- When "RT-Sensor ERROR" happens at the same time, "COMP. ON/OFF Operating Time" is 26min/22min.

(Unit : min)

RT sensor TEMP	~12°C	~18°C	~27°C	~31°C	~36°C	36°C~
COMP. Operating TIME (ON/OFF)	14/50	16/41	27/45	26/22	35/20	35/20

ⓒ CANCEL : when F-Sensor is working normally.

B. R1 ERROR

(It happens when R-Sensor is OPEN or SHORT)

ⓐ DISPLAY : Open error - "Fridge Min Led" is On.
Short error - "Fridge Min Led" blink.

ⓑ CONTROL :
- Controlled by the following condition of RT
- When "RT-Sensor ERROR" happens at the same time, "R-Damper. ON/OFF Operating Time" is 3min/7min.

(Unit : min)

RT sensor TEMP	~12°C	~18°C	~27°C	~31°C	~36°C	36°C~
R-Damper. Operating TIME (ON/OFF)	Off	3/50	2/10	3/7	4/6	6/4

ⓒ CANCEL : when R-Sensor is working normally.

C. RT ERROR

(It happens when RT-Sensor is OPEN or SHORT)

ⓐ DISPLAY : Open error - "Freezer Min_medium Led" is On.
Short error - "Freezer Min_medium Led" blink.

ⓑ CONTROL : Delete the conditions of "RT-sensor Control"

ⓒ CANCEL : when RT-Sensor is working normally.

8-13. Error Display

INPUT	CONTROL OBJECT
● PCB Control Panel Buttons ● Door	● LED Lamp

D. D1 ERROR

(It happens when D-Sensor is OPEN or SHORT)

ⓐ DISPLAY : Open error - “Fridge Min_medium Led” is On.
Short error - “Fridge Min_medium Led” blink.

ⓑ CONTROL : Return to next limit defrost time (40 min)

ⓒ CANCEL : when D-Sensor is working normally.
Completion of defrost returned by D-Sensor.

E. R-DOOR ERROR

(It happens when the system senses door opens more than 1 hour.)

ⓐ DISPLAY : “Fridge Medium_max Led” Blink.

ⓑ CONTROL : Deletion of function related door switch sensing.

ⓒ If door switch (open & close) is sensed, the error is terminated automatically.

F. F-DOOR ERROR

(It happens when the system senses door opens more than 1 hour.)

ⓐ DISPLAY : “Freezer Medium_max Led” Blink.

ⓑ CONTROL : Deletion of function related door switch sensing

ⓒ If door switch (open & close) is sensed, the error is terminated automatically

G. C1 ERROR

(When D-Sensor is more than -5°C, Comp operates over 3 hrs)

ⓐ DISPLAY : “Freezer Medium Led” Blink.

ⓑ CONTROL : The system is normally operating

ⓒ CANCEL : When Comp is off, D-Sensor is less than -5°C.

H. F3 ERROR

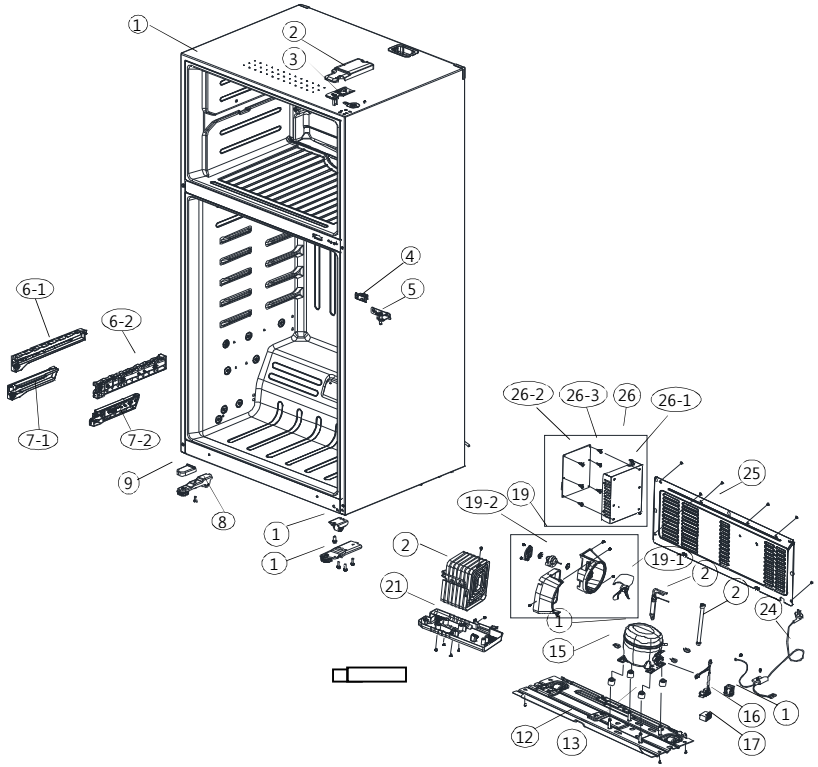
(Return to next limit defrost time (50 min))

6.1- DISPLAY : “Fridge Medium Led” Blink.

6.2- CONTROL : At Defrost Mode, Deletion of “PRE-COOL” Mode.

6.3- CANCEL : Completion of defrost returned by D-Sensor.

CODE	ERROR
Er F1	F sensor Open/Short
Er r1	R sensor Open/Short
Er rt	RT sensor Open/Short
Er d1	D sensor Open/Short
Er dr	R-Door Switch
Er df	F-Door Switch
Er C1	Cycle Error
Er F3	Defrost Time Error



Cabinet Part

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
1	30100-0086201	ASSY CAB URT	RGP56	1	
2	30114-0023500	COVER HI *T	PP J-370A,FRP-512	1	
3	30129-0012500	HINGE *T AS	SHP1 2.6T, FPR-512	1	
4	60181-0000100	SWITCH DR	2 BUTTON/4P,DSD-5	1	
5	30129-0017800	HINGE *M AS	HINGE *M AS RGE48	1	
6-1	30125-0017700	GUIDE C/C *L AS	FRP-512, GUIDE+ROLLER	1	
6-2	30125-0017800	GUIDE C/C *R AS	FRP-512, GUIDE+ROLLER	1	
7-1	30125-0017900	GUIDE V/CASE *L AS	FRP-512, GUIDE+ROLLER	1	
7-2	30125-0018000	GUIDE V/CASE *R AS	FRP-512, GUIDE+ROLLER	1	
8	30165-0001400	CASTER *F AS	FRP-512, T2.6	1	
9	30114-0024200	COVER ADJ FT	COVER ADJ FT FRP-563 PP J370A	1	
10	30165-0001500	CASTER *F SM AS	BRACKET+CASTER AS	1	
11	30129-0013200	HINGE *U AS	WH PAINT+SHAFT+F00T AS	1	

Machine Room Part

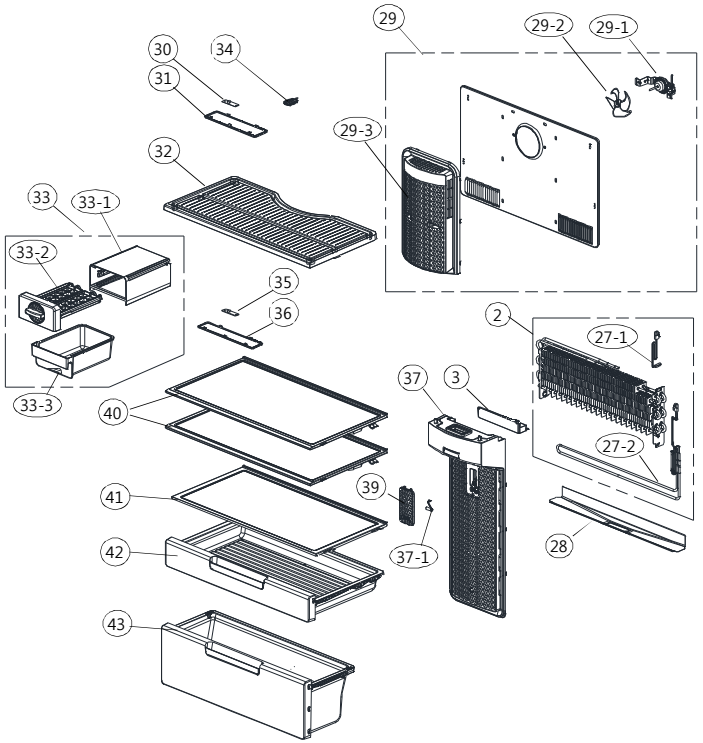
NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
12	30103-0014601	BASE COMP AS	560L(BSH XXL),BASE+BOLT AS	1	
13	60101-0000600	ABSORBER COMP	NBR	4	
	60101-0000503	ABSORBER COMP AS	FRU-541D		DONGPER
14	60110-0010400	COMPRESSOR	LJ118DY, 220V/60Hz	1	DONGPER
	60110-0009500		LJ126CY, 220-240V/50HZ		DONGPER
15	30160-0001302	SPECIAL WASHER COMP	SK-5 T0.8XW19XL19.5(2STAGE)	4	
16	60181-0010700	SWITCH P RELAY AS	RGP56/48/51 (사우디)	1	LJ118DY
	60181-0010800		RGP56/48/51 (이란)		LJ126CY
17	60164-0002304	CAPACITOR RUN	450V,4UF(WIRE HOUSING,CQC)	1	DONGPER
18	30114-0074500	COVER RELAY	COVER RELAY FRE-343	1	DONGPER
19	30185-0000203	MOUTHBELL AS	FR-B512FH(DC12V)	1	
19-1	60118-0001400	FAN	ABS(OD150)	1	
19-2	60159-0003701	MOTOR C FAN	D4612AAA27 12V 1000RPM	1	

Machine Room Part continued

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
20	60144-0008100	PIPE WICON AS	FRP-512	1	
21	30111-0019902	CASE VAPORI AS	FRP-512	1	
22	60168-0000802	DRYER AS	SBS 10G	1	
23	30132-0000101	HOSE DRN A2	PVC L238	1	
24	60113-0005300	CORD POWER AS	250V/16A(VDE,RING CORE)	1	CP-2PIN
	60113-0005301		UK 250V/13A(BS-1363)	1	BS-1363
	60113-0004101		EMRS57HRE, 0.75SQ	1	내수
25	30114-0024701	COVER MACH RM AS	GRILL+SEAL	1	
26	30105-0028900	BOX M/PCB AS	FRP-512 BOX+ RGP56 M-PCB	1	
26-1	30105-0015800	BOX M/PCB	FRP-512, SGCC 0.4T	1	
26-2	40301-0060800	REF PCB MAIN ASSY	RGP56 FR-1, 197X122-1.6T	1	
26-3	30153-0002000	SUPPORT M PCB	NYLON66 DASS-9N	6	

- Some parts can be chaged for improving their perfomance without notice.

- Above parts number doesn't describe your own colour & printing.

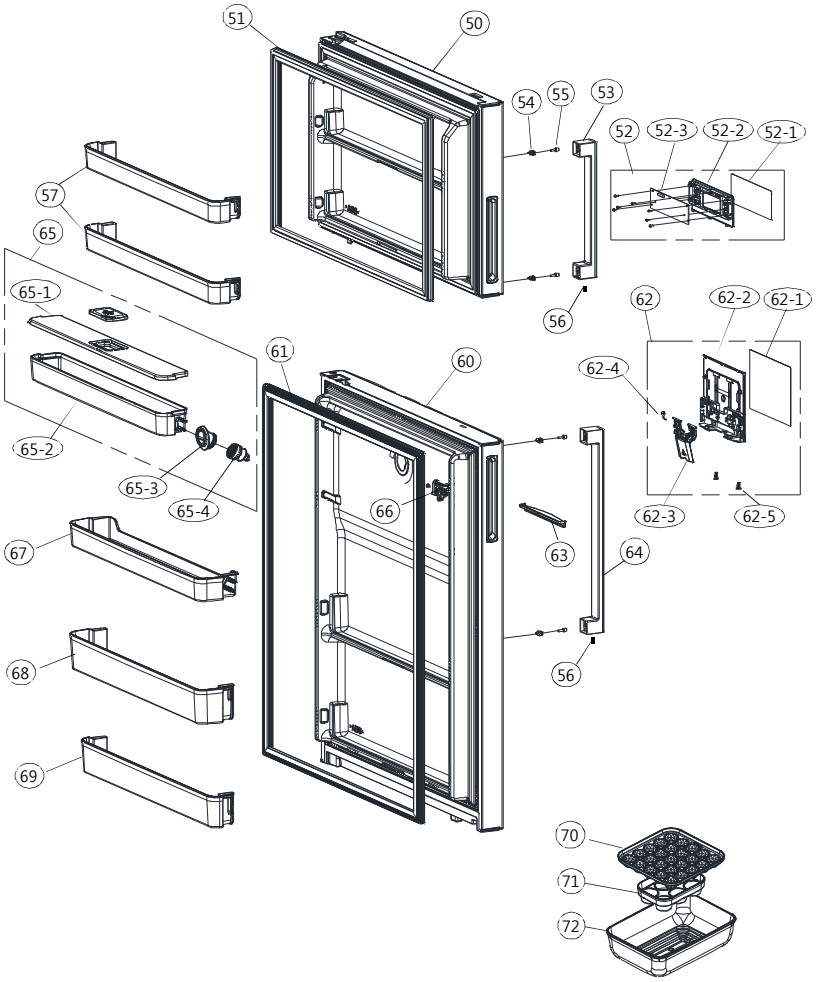


Freezer Compartment

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
27	60170-0004900	EVA AS	SHEAEH HTR(R600A)TYPE	1	R600a
27-1	60127-0016401	HARNESS DEFR SENS	(R600A) GENERAL(OD8)	1	R600a
27-2	60128-0007600	HEATER SHEATH AS	220V/250W+FUSE AS		
28	30125-0018600	GUIDE DRN	FRP-563 GL T0.4	1	
29	30189-0011800	LOUVER F AS	RGP56 DC 12V	1	
29-1	60159-0009100	MOTOR F FAN AS	DC12V	1	
29-2	60118-0000700	FAN AS	FAN(OD110)+CLAMP	1	
29-3	30114-0072900	COVER F FAN AS	RGP56	1	
30	60136-0001000	LAMP LED AS	3LED,66*20*1.6T,DC12V	1	
31	30155-0017700	WINDOW F LAMP	GPPS	1	
32	30178-0022500	SHELF F	GPPS	1	
33	30104-0002000	BODY I/MAKER AS	BODY I/MAKER AS RGP56	1	
33-1	30104-0001900	BODY I/MAKER	BODY I MAKER HIPS	1	
33-2	30122-0032200	FRAME I/MAKER AS	GPF 48/51	1	
33-3	30105-0028500	BOX ICE	BOX ICE GPPS	1	
34	30114-0036300	COVER SENS	COVER F SENSOR ABS	1	

Refrigerator Compartment

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
35	60136-0001000	LAMP LED AS	3LED,66*20*1.6T,DC12V	1	
36	30155-0017600	WINDOW R LAMP	GPPS	1	
37	30114-0073000	COVER M/F DUCT AS	RGP56	1	
37-1	60148-0005400	SENSOR RT R AS	PBN-43	1	
38	30125-0017300	GUIDE DRN *O	FRP-512 HIPS HI450	1	
39	30116-0026400	DECO M/F DUCT	PP	1	
40	30178-0015000	SHELF R AS	H/STAMP+GLAS AS	1	
41	30178-0023700	SHELF COVR FRESH	PP+GLASS INJECTION	1	
42	30111-0040600	CASE FRESH AS	Silk Print+ Hot Stamping	1	
	30111-0040601		Silk Print	1	
43	30111-0040700	CASE VEGETB AS	Silk Print+ Hot Stamping	1	
	30111-0040701		Silk Print	1	

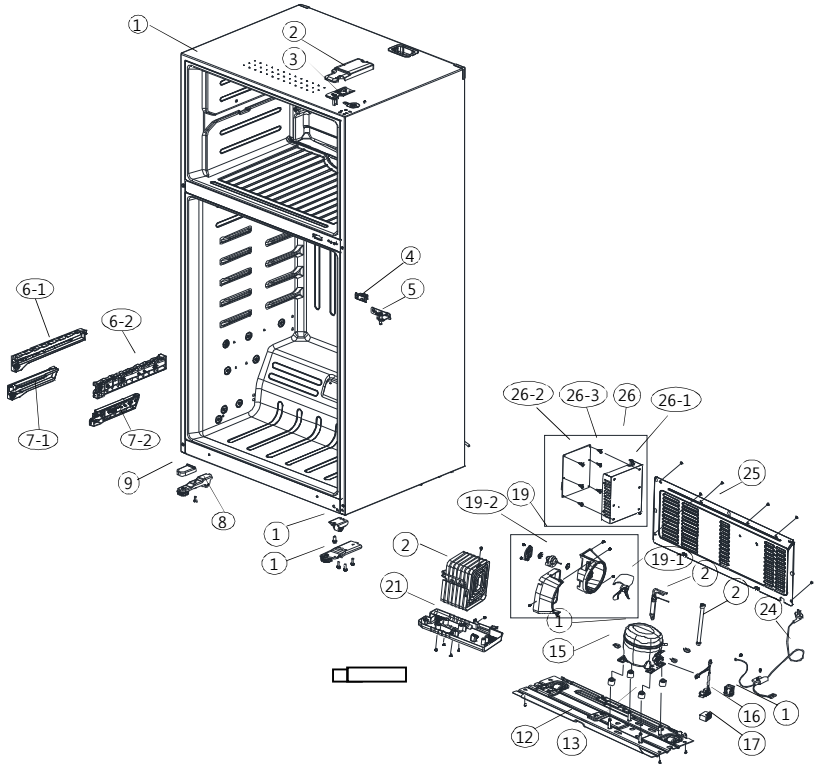


Freezer Door

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
50	30100-0050501	ASSY F DR	PCM (DWH1C) RGP56	1	
	30100-0050502		ELLIO (MSG4E) RGP56	1	
	30100-0050503		VCM (FSH2L) RGP56	1	
51	30123-0011400	GASKET F DR AS	PVC, GRAY	1	
52	60142-0019200	PANEL *F CONTL AS	RGP56	1	
52-1	30155-0017900	WINDOW FCP AS	WINDOW+TAPE RGP56	1	
52-2	60142-0006800	PANEL *F CONT	ABS SG0760, FRP-512	1	
52-3	40301-0058100	REF PCB FRONT ASSY	RGP560 PCB FRONT	1	
53	30126-0010400	HANDLE F AS	FRP-515NCE8C	1	
	30126-0010401	HANDLE F AS	FRP-515NCE8C,DECO PAINT	1	
54	30120-0006100	FIXTURE HNDL SUPPORT	HIPS	2	
55	30160-0008100	SPECIAL HNDL BOLT	SWRMCH18	2	
56	30160-0003600	SPECIAL SCREW MACH	SWCA10A	1	
57	30190-0022600	POCKET F	GPPS	2	

Refrigerator Door

NO	PART-CODE	PART NAME	SPEC.	Basic	Dispns
60	30100-0050401	ASSY R DR	PCM (DWH1C) RGP56 BASIC	1	x
	30100-0050402		PCM (DWH1C) RGP56 DISPNS	x	1
	30100-0050403		ELLIO (MSG4E) RGP56 BASIC	1	x
	30100-0050404		ELLIO (MSG4E) RGP56 DISPNS	x	1
	30100-0050405		VCM (FSH2L) RGP56 BASIC	1	x
	30100-0050406		VCM (FSH2L) RGP56 DISPNS	x	1
61	30123-0011500	GASKET R DR AS	PVC, GRAY	1	1
62	60142-0007700	PANEL DISPNS AS	PANEL+LEVER FRP-512	x	1
	60142-0007701		PANEL+LEVER FRP-512 SPRY	x	1
62-1	30116-0028200	DECO DISPNS AS	RGP56, T0.8XPC+TAPE	x	1
62-2	60142-0006900	PANEL DISPNS	ABS SG0760, FRP-512	x	1
	60142-0008200	PANEL DISPNS SAS	ABS SG0760, FRP-512, SPRY	x	1
62-3	30137-0001600	LEVER DISPNS	PC FRP-513	x	1
62-4	30151-0001900	SPRING DISPNS LEVR	STS304 0.8TX7 FRP-513	x	1
62-5	30120-0016500	FIXTURE K	SG0760, 2ND PJT	x	2
63	30111-0025100	CASE DISPNS DRN	ABS SG0760, FRP-513	x	1
	30111-0041600	CASE DISPNS DRN PA	ABS SG0760, FRP-513, SPRY	x	1
64	30126-0010500	HANDLE R AS	FRP-515NCE8C	1	1
	30126-0010501		FRP-515NCE8C,DECO PAINT	1	1
65	30182-0003300	TANK WATER AS	FRP-513	x	1
65-1	30114-0072600	COVER W/TANK AS	LDPE	x	1
65-2	30182-0003400	TANK WATER SAS	GPPS + SILK PRINT	x	1
65-3	60140-0002900	PACKING DISPNS HOLDER	SILICON KCC0160 FRP-516	x	1
65-4	60154-0002800	VALVE WATER	FRP-513	x	1
66	30152-0002800	STOPPER W/TANK *R	ABS SG0760, FRP-513	x	1
67	30190-0022700	POCKET R *T	GPPS	2	1
68	30190-0023000	POCKET JUMBO PR	GPPS + SILK PRINT	1	1
69	30190-0022900	POCKET R *U	GPPS	1	1
70	30111-0040300	CASE ICE	CASE ICING PP (Tray)	1	1
71	30111-0039800	CASE EGG	CASE EGG PP	1	1
72	30111-0040200	CASE ICE	CASE ICE PP (Multi Box)	1	1



Cabinet Part

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
1	30100-0086201	ASSY CAB URT	RGP56	1	
2	30114-0023500	COVER HI *T	PP J-370A,FRP-512	1	
3	30129-0012500	HINGE *T AS	SHP1 2.6T, FPR-512	1	
4	60181-0000100	SWITCH DR	2 BUTTON/4P,DSD-5	1	
5	30129-0017800	HINGE *M AS	HINGE *M AS RGE48	1	
6-1	30125-0017700	GUIDE C/C *L AS	FRP-512, GUIDE+ROLLER	1	
6-2	30125-0017800	GUIDE C/C *R AS	FRP-512, GUIDE+ROLLER	1	
7-1	30125-0017900	GUIDE V/CASE *L AS	FRP-512, GUIDE+ROLLER	1	
7-2	30125-0018000	GUIDE V/CASE *R AS	FRP-512, GUIDE+ROLLER	1	
8	30165-0001400	CASTER *F AS	FRP-512, T2.6	1	
9	30114-0024200	COVER ADJ FT	COVER ADJ FT FRP-563 PP J370A	1	
10	30165-0001500	CASTER *F SM AS	BRACKET+CASTER AS	1	
11	30129-0013200	HINGE *U AS	WH PAINT+SHAFT+F00T AS	1	

Machine Room Part

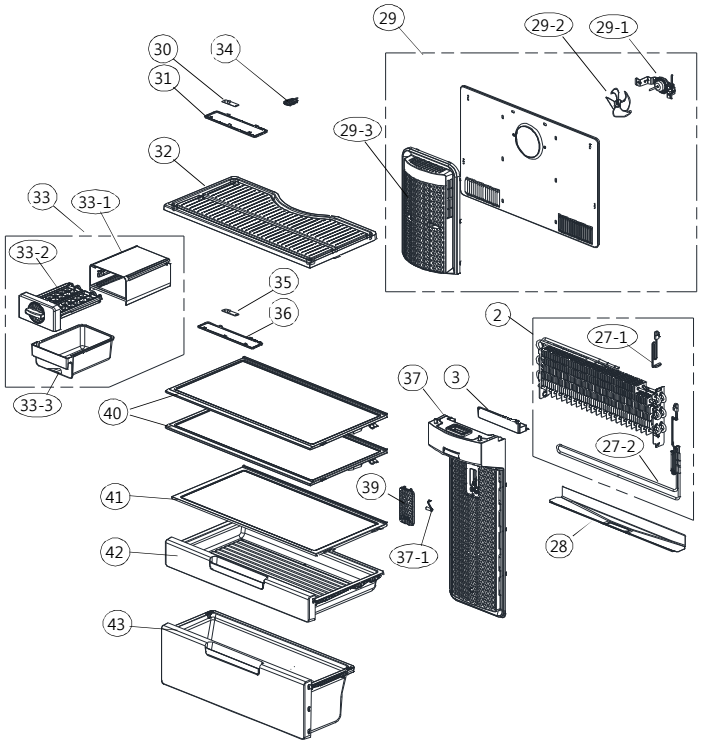
NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
12	30103-0014601	BASE COMP AS	560L(BSH XXL),BASE+BOLT AS	1	
13	60101-0000600	ABSORBER COMP	NBR	4	
	60101-0000503	ABSORBER COMP AS	FRU-541D		DONGPER
14	60110-0010400	COMPRESSOR	LJ118DY, 220V/60Hz	1	DONGPER
	60110-0009500		LJ126CY, 220-240V/50HZ		DONGPER
15	30160-0001302	SPECIAL WASHER COMP	SK-5 T0.8XW19XL19.5(2STAGE)	4	
16	60181-0010700	SWITCH P RELAY AS	RGP56/48/51 (사우디)	1	LJ118DY
	60181-0010800		RGP56/48/51 (이란)		LJ126CY
17	60164-0002304	CAPACITOR RUN	450V,4UF(WIRE HOUSING,CQC)	1	DONGPER
18	30114-0074500	COVER RELAY	COVER RELAY FRE-343	1	DONGPER
19	30185-0000203	MOUTHBELL AS	FR-B512FH(DC12V)	1	
19-1	60118-0001400	FAN	ABS(OD150)	1	
19-2	60159-0003701	MOTOR C FAN	D4612AAA27 12V 1000RPM	1	

Machine Room Part continued

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
20	60144-0008100	PIPE WICON AS	FRP-512	1	
21	30111-0019902	CASE VAPORI AS	FRP-512	1	
22	60168-0000802	DRYER AS	SBS 10G	1	
23	30132-0000101	HOSE DRN A2	PVC L238	1	
24	60113-0005300	CORD POWER AS	250V/16A(VDE,RING CORE)	1	CP-2PIN
	60113-0005301		UK 250V/13A(BS-1363)	1	BS-1363
	60113-0004101		EMRS57HRE, 0.75SQ	1	내수
25	30114-0024701	COVER MACH RM AS	GRILL+SEAL	1	
26	30105-0028900	BOX M/PCB AS	FRP-512 BOX+ RGP56 M-PCB	1	
26-1	30105-0015800	BOX M/PCB	FRP-512, SGCC 0.4T	1	
26-2	40301-0060800	REF PCB MAIN ASSY	RGP56 FR-1, 197X122-1.6T	1	
26-3	30153-0002000	SUPPORT M PCB	NYLON66 DASS-9N	6	

- Some parts can be chaged for improving their perfomance without notice.

- Above parts number doesn't describe your own colour & printing.

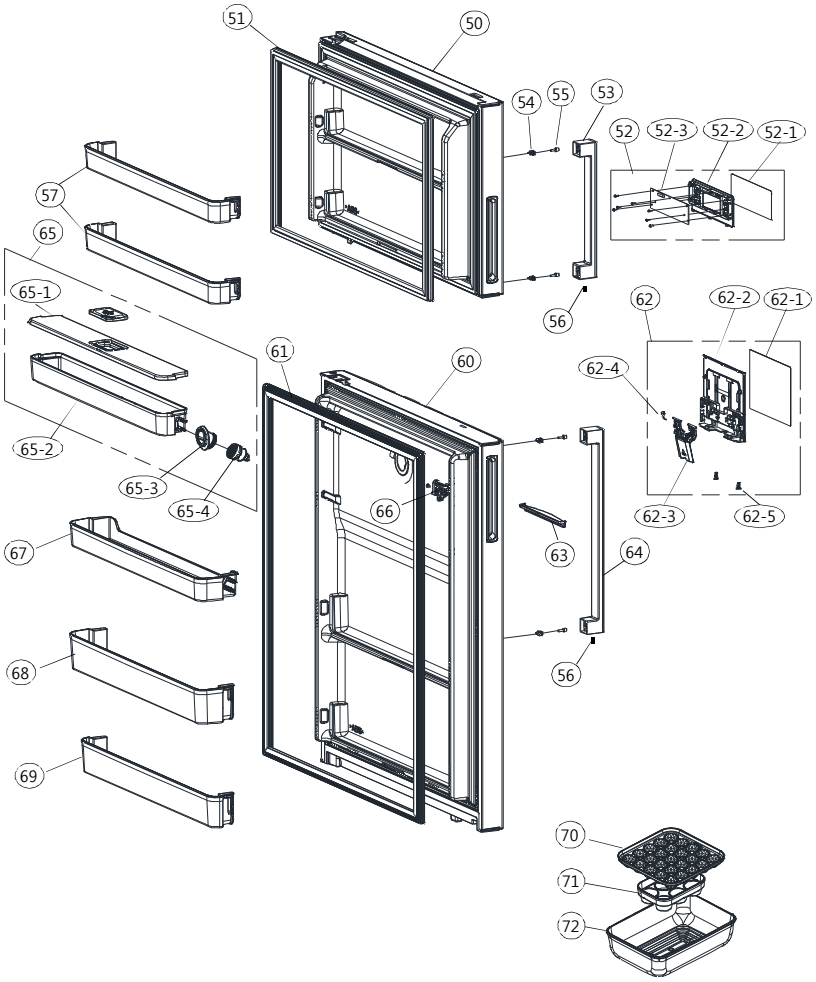


Freezer Compartment

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
27	60170-0004900	EVA AS	SHEAEH HTR(R600A)TYPE	1	R600a
27-1	60127-0016401	HARNESS DEFR SENS	(R600A) GENERAL(OD8)	1	R600a
27-2	60128-0007600	HEATER SHEATH AS	220V/250W+FUSE AS		
28	30125-0018600	GUIDE DRN	FRP-563 GL T0.4	1	
29	30189-0011800	LOUVER F AS	RGP56 DC 12V	1	
29-1	60159-0009100	MOTOR F FAN AS	DC12V	1	
29-2	60118-0000700	FAN AS	FAN(OD110)+CLAMP	1	
29-3	30114-0072900	COVER F FAN AS	RGP56	1	
30	60136-0001000	LAMP LED AS	3LED,66*20*1.6T,DC12V	1	
31	30155-0017700	WINDOW F LAMP	GPPS	1	
32	30178-0022500	SHELF F	GPPS	1	
33	30104-0002000	BODY I/MAKER AS	BODY I/MAKER AS RGP56	1	
33-1	30104-0001900	BODY I/MAKER	BODY I MAKER HIPS	1	
33-2	30122-0032200	FRAME I/MAKER AS	GPF 48/51	1	
33-3	30105-0028500	BOX ICE	BOX ICE GPPS	1	
34	30114-0036300	COVER SENS	COVER F SENSOR ABS	1	

Refrigerator Compartment

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
35	60136-0001000	LAMP LED AS	3LED,66*20*1.6T,DC12V	1	
36	30155-0017600	WINDOW R LAMP	GPPS	1	
37	30114-0073000	COVER M/F DUCT AS	RGP56	1	
37-1	60148-0005400	SENSOR RT R AS	PBN-43	1	
38	30125-0017300	GUIDE DRN *O	FRP-512 HIPS HI450	1	
39	30116-0026400	DECO M/F DUCT	PP	1	
40	30178-0015000	SHELF R AS	H/STAMP+GLAS AS	1	
41	30178-0023700	SHELF COVR FRESH	PP+GLASS INJECTION	1	
42	30111-0040600	CASE FRESH AS	Silk Print+ Hot Stamping	1	
	30111-0040601		Silk Print	1	
43	30111-0040700	CASE VEGETB AS	Silk Print+ Hot Stamping	1	
	30111-0040701		Silk Print	1	



Freezer Door

NO	PART-CODE	PART NAME	SPEC.	Q'ty	Remark
50	30100-0050501	ASSY F DR	PCM (DWH1C) RGP56	1	
	30100-0050502		ELLIO (MSG4E) RGP56	1	
	30100-0050503		VCM (FSH2L) RGP56	1	
51	30123-0011400	GASKET F DR AS	PVC, GRAY	1	
52	60142-0019200	PANEL *F CONTL AS	RGP56	1	
52-1	30155-0017900	WINDOW FCP AS	WINDOW+TAPE RGP56	1	
52-2	60142-0006800	PANEL *F CONT	ABS SG0760, FRP-512	1	
52-3	40301-0058100	REF PCB FRONT ASSY	RGP560 PCB FRONT	1	
53	30126-0010400	HANDLE F AS	FRP-515NCE8C	1	
	30126-0010401	HANDLE F AS	FRP-515NCE8C,DECO PAINT	1	
54	30120-0006100	FIXTURE HNDL SUPPORT	HIPS	2	
55	30160-0008100	SPECIAL HNDL BOLT	SWRMCH18	2	
56	30160-0003600	SPECIAL SCREW MACH	SWCA10A	1	
57	30190-0022600	POCKET F	GPPS	2	

Refrigerator Door

NO	PART-CODE	PART NAME	SPEC.	Basic	Dispns
60	30100-0050401	ASSY R DR	PCM (DWH1C) RGP56 BASIC	1	x
	30100-0050402		PCM (DWH1C) RGP56 DISPNS	x	1
	30100-0050403		ELLIO (MSG4E) RGP56 BASIC	1	x
	30100-0050404		ELLIO (MSG4E) RGP56 DISPNS	x	1
	30100-0050405		VCM (FSH2L) RGP56 BASIC	1	x
	30100-0050406		VCM (FSH2L) RGP56 DISPNS	x	1
61	30123-0011500	GASKET R DR AS	PVC, GRAY	1	1
62	60142-0007700	PANEL DISPNS AS	PANEL+LEVER FRP-512	x	1
	60142-0007701		PANEL+LEVER FRP-512 SPRY	x	1
62-1	30116-0028200	DECO DISPNS AS	RGP56, T0.8XPC+TAPE	x	1
62-2	60142-0006900	PANEL DISPNS	ABS SG0760, FRP-512	x	1
	60142-0008200	PANEL DISPNS SAS	ABS SG0760, FRP-512, SPRY	x	1
62-3	30137-0001600	LEVER DISPNS	PC FRP-513	x	1
62-4	30151-0001900	SPRING DISPNS LEVR	STS304 0.8TX7 FRP-513	x	1
62-5	30120-0016500	FIXTURE K	SG0760, 2ND PJT	x	2
63	30111-0025100	CASE DISPNS DRN	ABS SG0760, FRP-513	x	1
	30111-0041600	CASE DISPNS DRN PA	ABS SG0760, FRP-513, SPRY	x	1
64	30126-0010500	HANDLE R AS	FRP-515NCE8C	1	1
	30126-0010501		FRP-515NCE8C,DECO PAINT	1	1
65	30182-0003300	TANK WATER AS	FRP-513	x	1
65-1	30114-0072600	COVER W/TANK AS	LDPE	x	1
65-2	30182-0003400	TANK WATER SAS	GPPS + SILK PRINT	x	1
65-3	60140-0002900	PACKING DISPNS HOLDER	SILICON KCC0160 FRP-516	x	1
65-4	60154-0002800	VALVE WATER	FRP-513	x	1
66	30152-0002800	STOPPER W/TANK *R	ABS SG0760, FRP-513	x	1
67	30190-0022700	POCKET R *T	GPPS	2	1
68	30190-0023000	POCKET JUMBO PR	GPPS + SILK PRINT	1	1
69	30190-0022900	POCKET R *U	GPPS	1	1
70	30111-0040300	CASE ICE	CASE ICING PP (Tray)	1	1
71	30111-0039800	CASE EGG	CASE EGG PP	1	1
72	30111-0040200	CASE ICE	CASE ICE PP (Multi Box)	1	1