SERVICE MANUAL

RGE34 / 36 / 40

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

SAFETY AND PRECAUTIONS

1) For starters, be sure to check any chances of the leakage of electricity."
2) You could handle a part in the vicinity of electricity after unplugging.
3) You should put on rubber gloves to prevent an electric shock on operation test.
4) Make sure the rated current,voltage,capacity before using an instrument."
5) Keep your wet hands away from the metal goods in the freezer compartment not to be frostbitten.
6) Be careful not to let water permeate the electric part in the machine room.
7) With door open during your working,you might be damaged by door."
8) You should give a title to the refrigerator for your safe after removing the breakable goods inside the refrigerator.
9) You'd better use cotton gloves if you fix it up around the evaporator

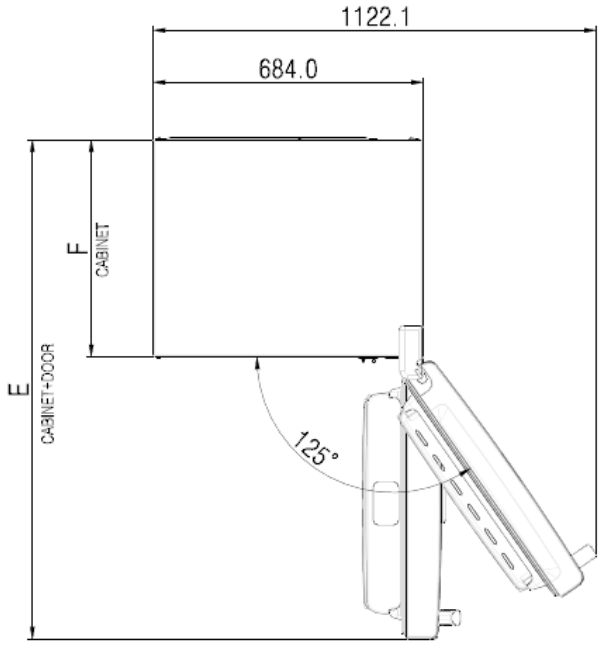
TABLE OF CONTENTS

1. SPECIFICATION

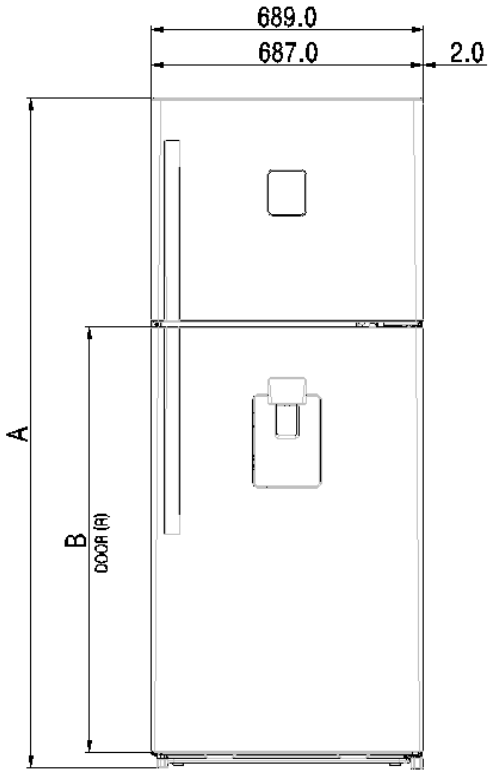
MODEL NAME		RGE34		RGE36		RGE40	
		BASIC	DISPNS	BASIC	DISPNS	BASIC	DISPNS
STORAGE VOLUME (IEC62552)	Total	**345**	**343**	**363.0**	**361.0**	**400.0**	**397.0**
	Freezer	**100.0**	**100.0**	**100.0**	**100.0**	**111.0**	**111.0**
	Refrigerator	**245.0**	**243.0**	**263.0**	**261.0**	**289.0**	**286.0**
EXTERNAL DIMENSION (with HANDLE)	WIDTH(mm)	**689**		**689**		**689**	
	DEPTH(mm)	**698.3**		**698.3**		**743.3**	
	HEIGHT(mm)	**1645**		**1705**		**1710**	
REFRIGERANT	R-600a	**36g**		**36g**		**36g**	
COOLING & CONTROL SYSTEM	COOLING SYSTEM	FAN COOLING SYSTEM					
	DEFROST SYSTEM	FIN EVAPORATOR FORCED					
	DEFROST CONTROL	AUTOMATIC START & STOP					
NET WEIGHT(KG)		**62**		**65**		**68**	

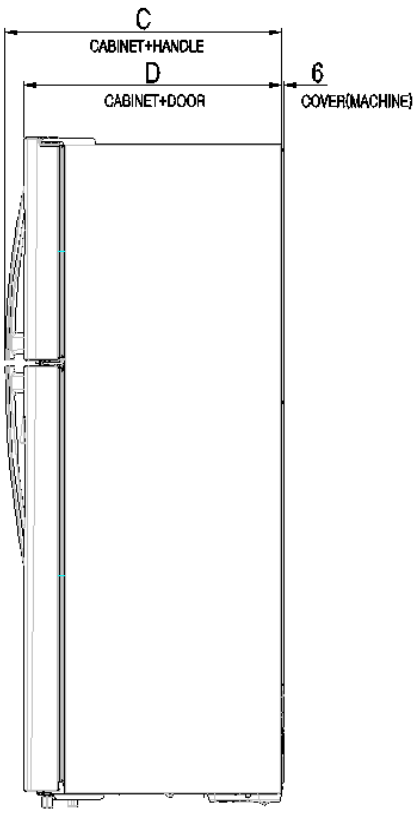
2. EXTENAL VIEW

RGE-34/36/40



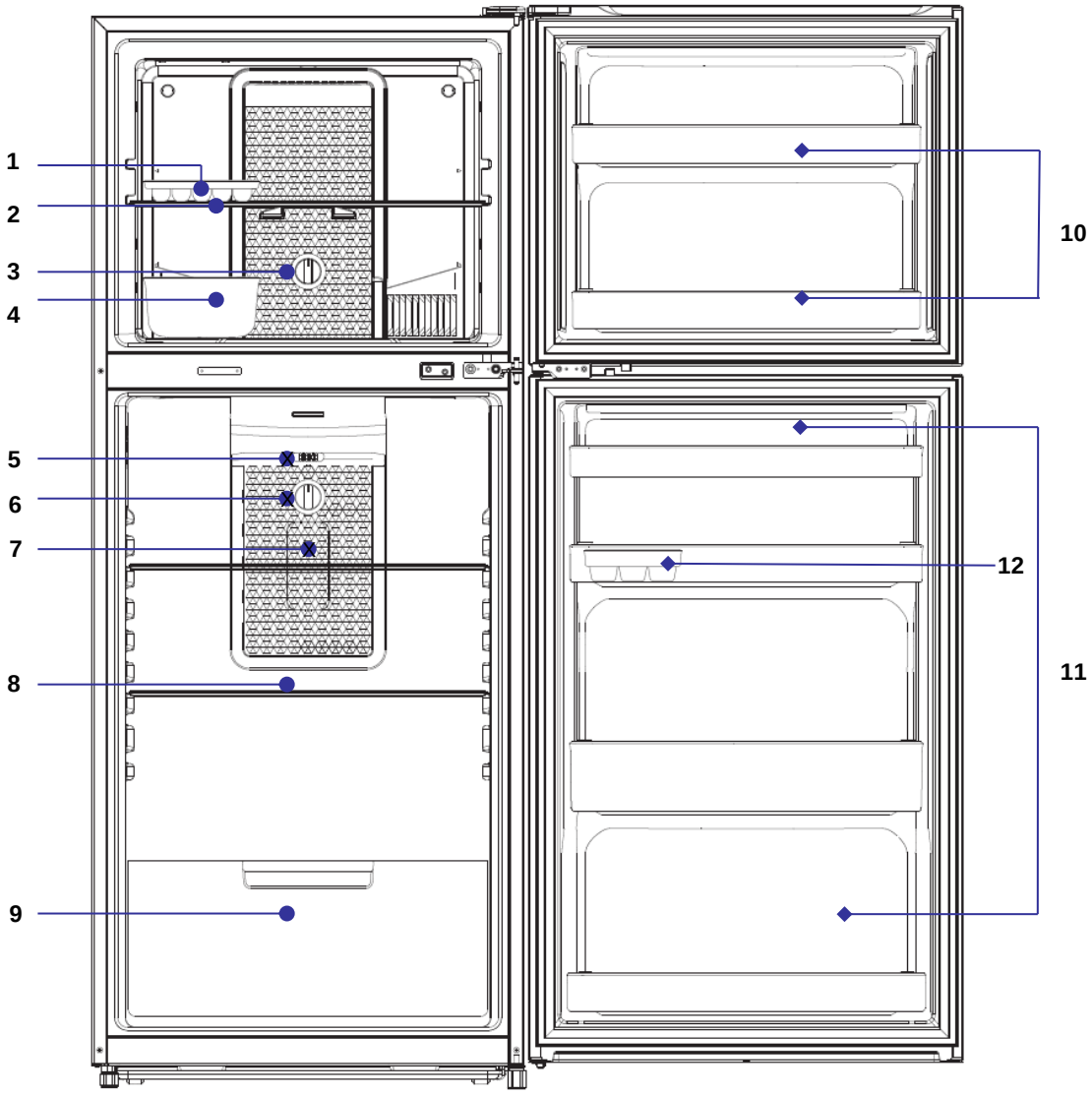
MODEL NAME		RGE34	RGE36	RGE40
EXTERNAL DIMENSION	A (mm)	**1645**	**1705**	**1710**
	B (mm)	**1028.5**	**1088.5**	←
	C (mm)	→	**698.3**	**743.3**
	D (mm)	→	**650**	**695**
	E (mm)	→	**1265**	**1310**
	F (mm)	→	**550**	**595**





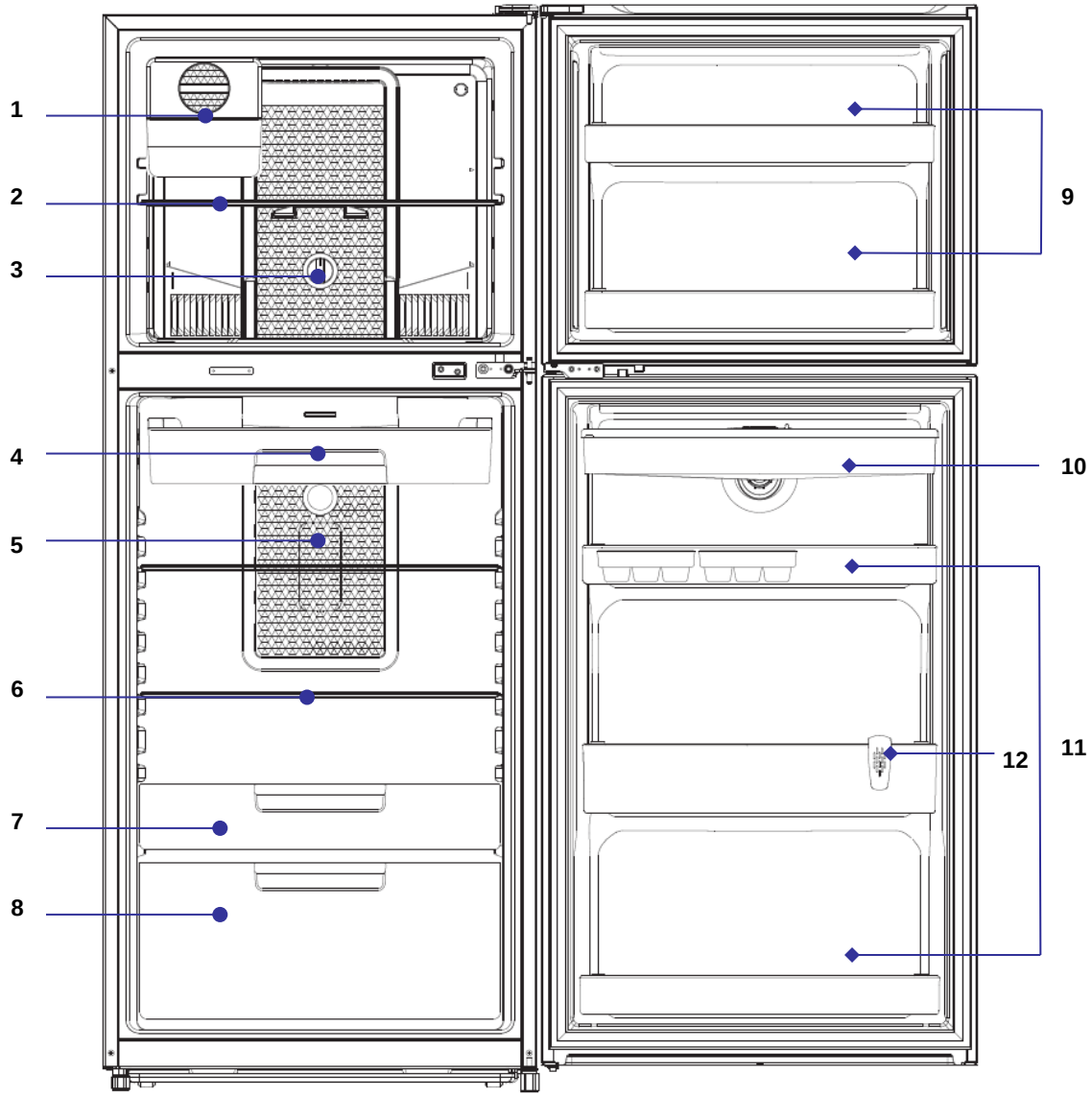
3. Name Of Each Part

RGE-34/36/40 BASIC TYPE



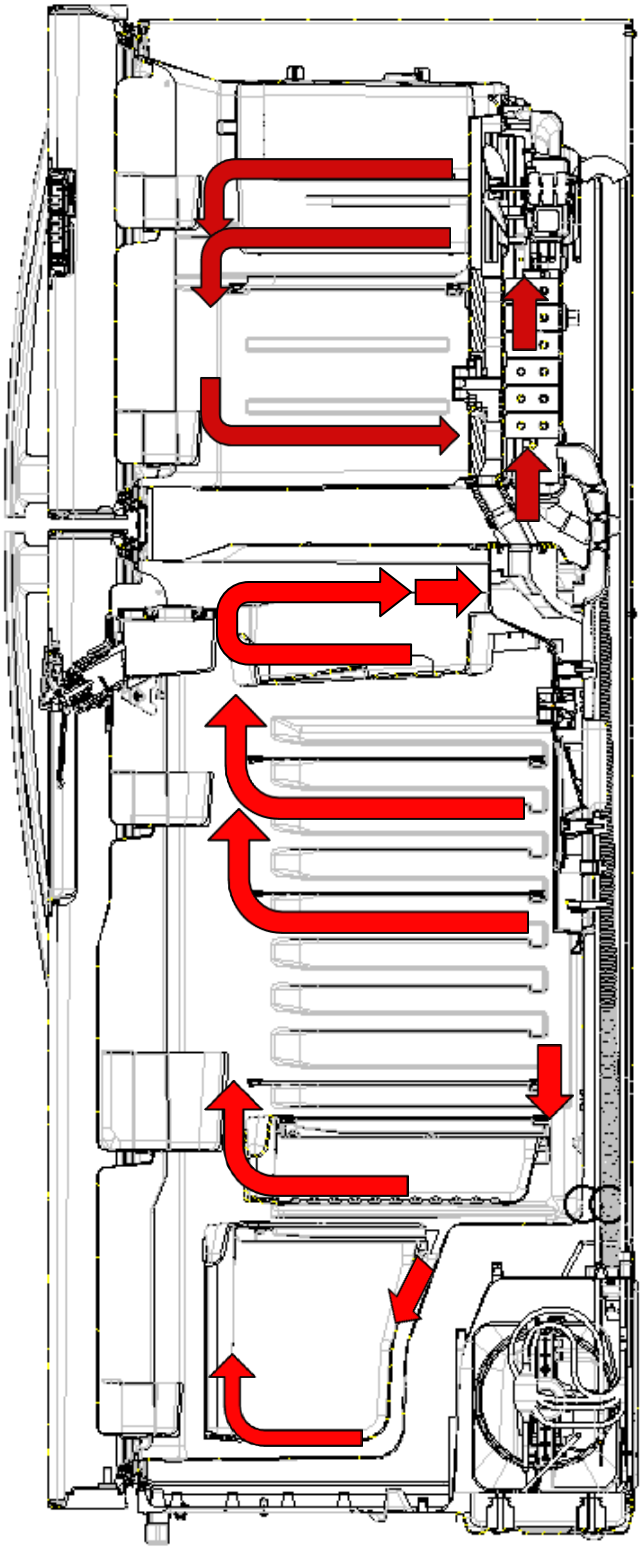
1. Ice Maker (Manual)	8. Fresh Food Compartment Shelves
2. Freezer Compartment Shelf	9. Vegetable Case
3. Freezer Compartment Temperature Controller	10. Freezer Compartment Pockets
4. Ice Case	11. Fresh Food Compartment Pockets
5. Fresh Food Compartment Sensor	12. Egg Case
6. Fresh Food Compartment Temperature Controller	
7. Fresh Food Compartment LED Lamp	

RGE34/36/40 FULL TYPE

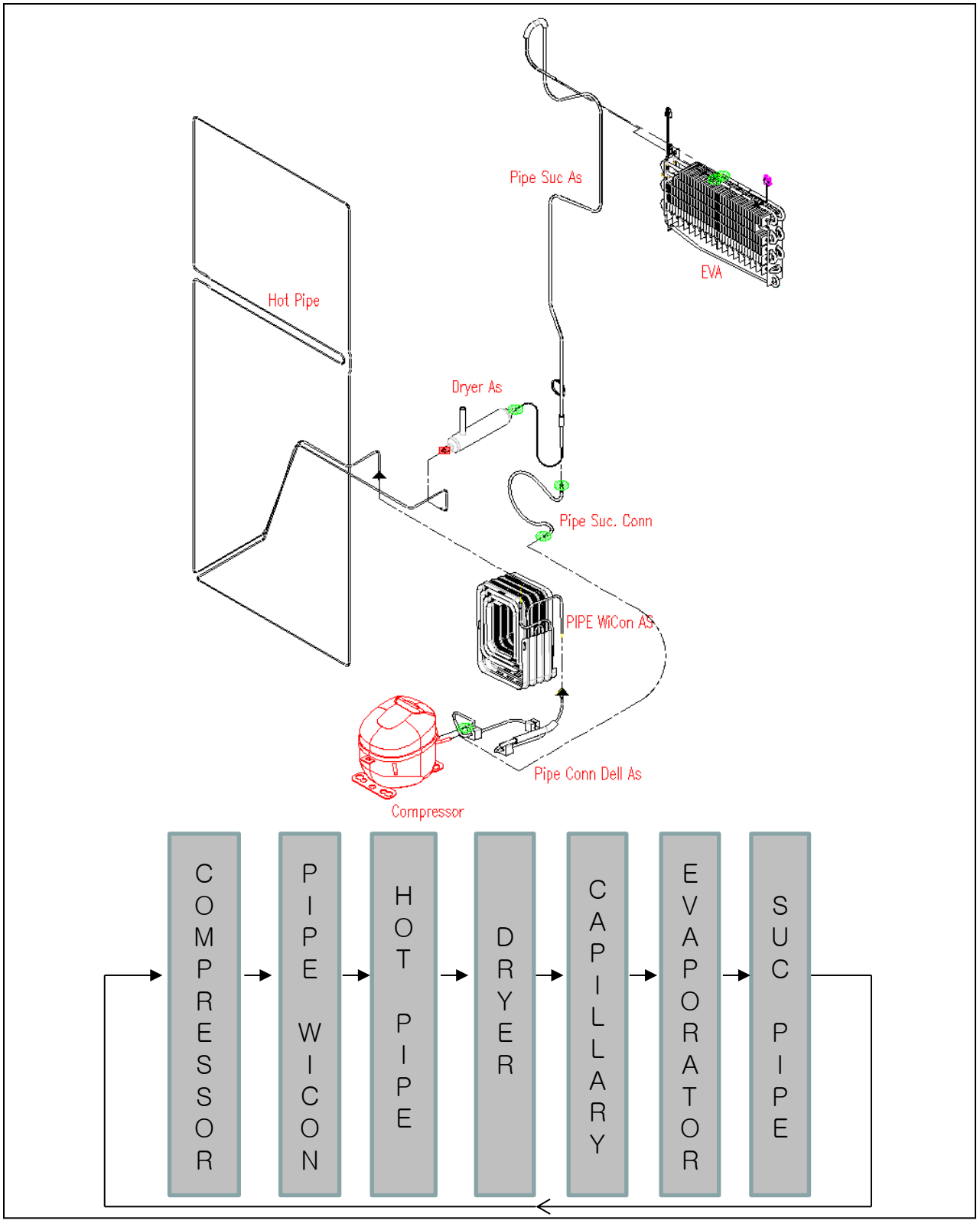


1. ICE MAKER	8. Vegetable Case
2. Freezer Compartment Shelf	9. Freezer Compartment Pockets
3. Freezer Compartment Temperature Controller	10. Fresh Food Water Tank
4. Fresh Utility case	11. Fresh Food Compartment Pockets
5. Fresh Food Compartment LED Lamp	12. Pocket Guide
6. Fresh Food Compartment Shelves	
7. Fresh Case	

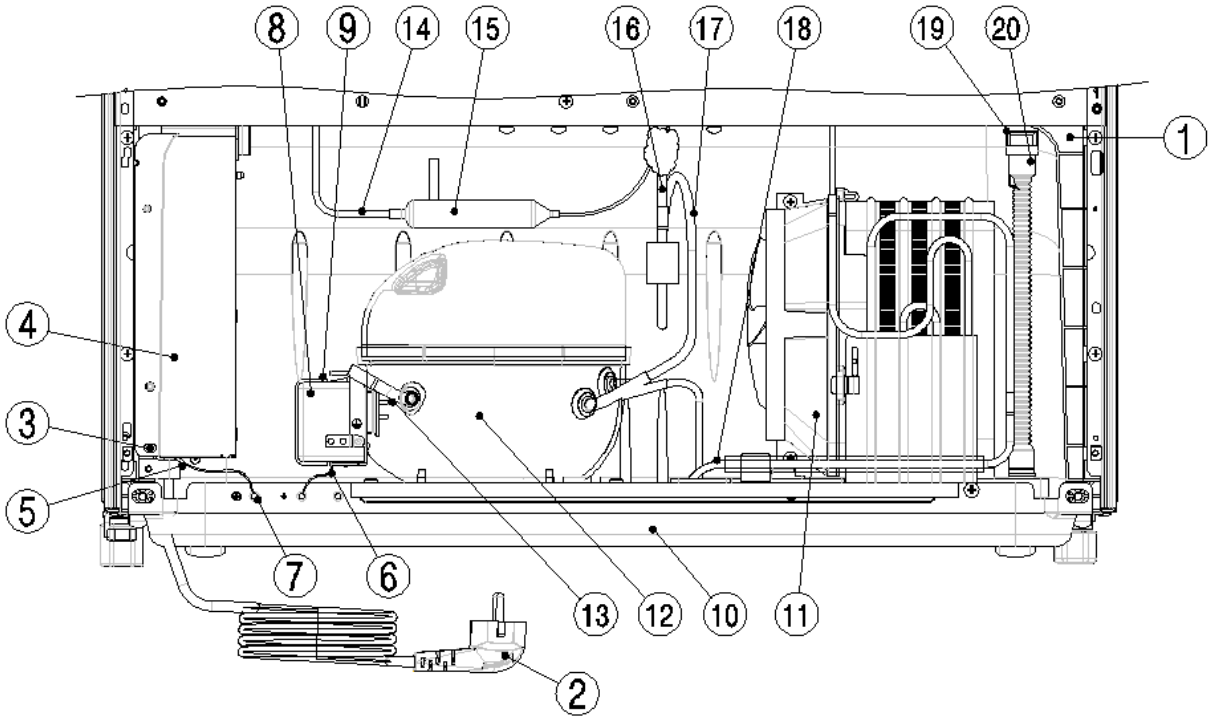
4. Cold Air Circulation



5. REFRIGERANT CYCLE DAIGRAM



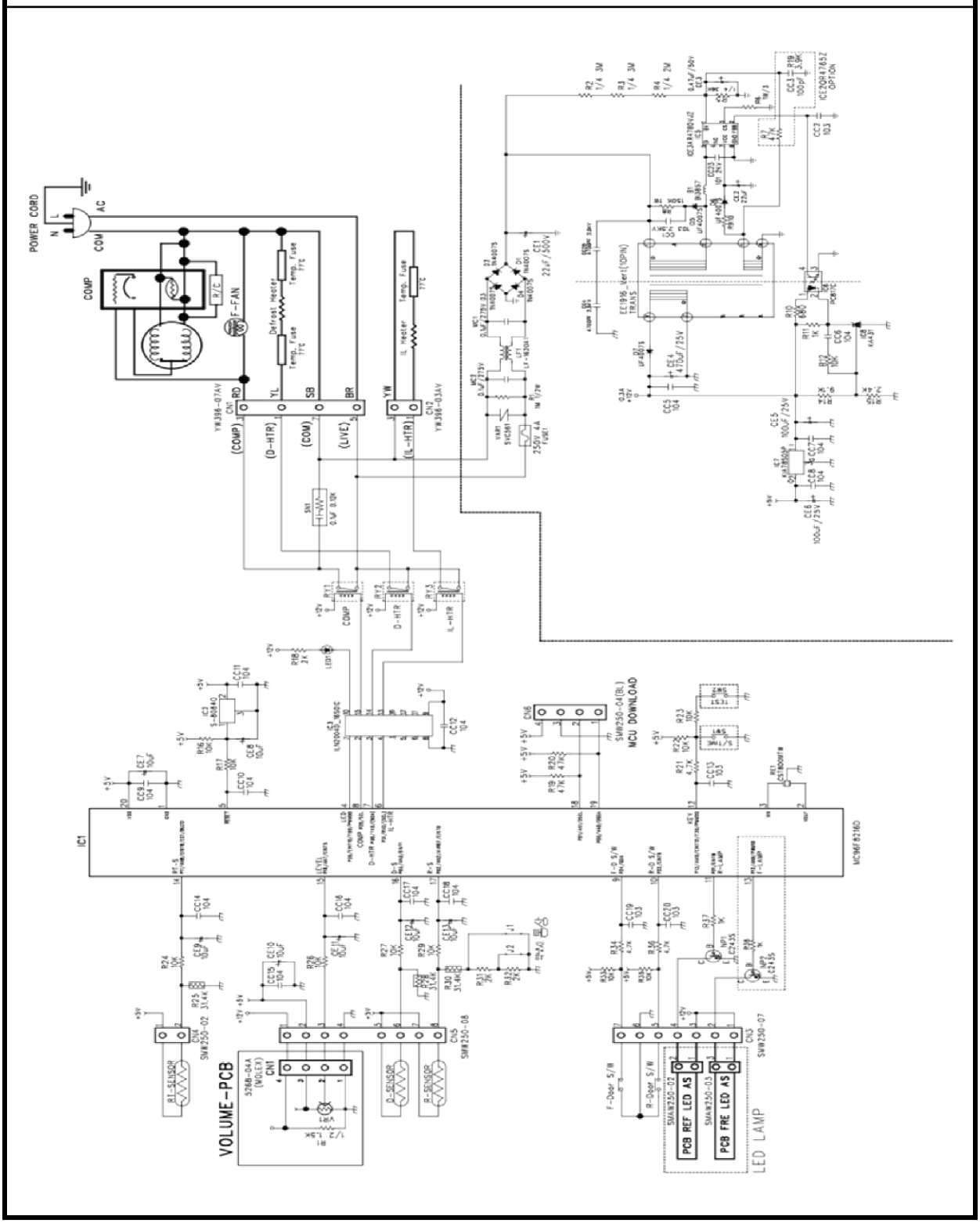
6. MACHINE ROOM VIEW AND PART LIST



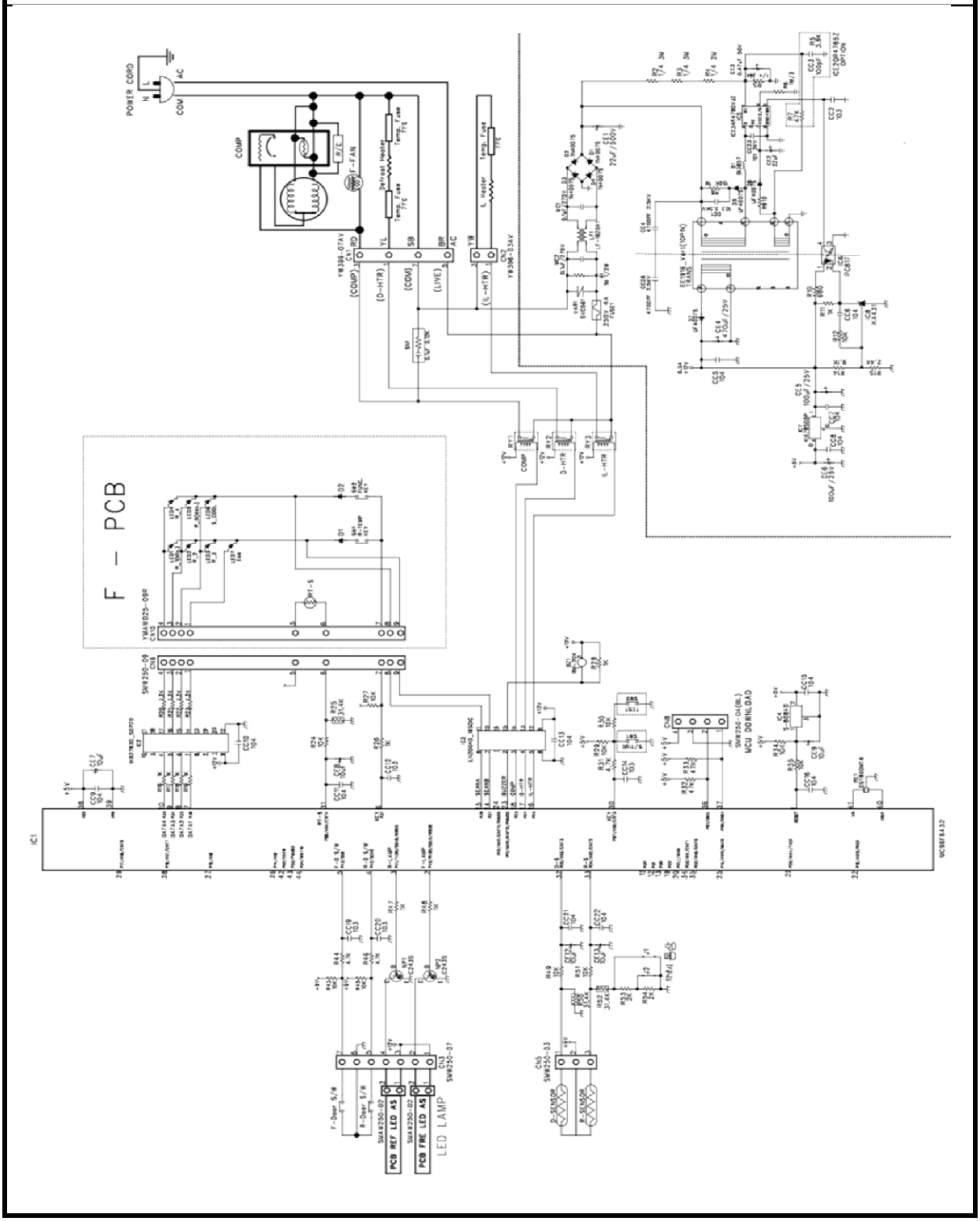
NO	PART NAME	NO	PART NAME
1	BASE CAB	11	CASE VAPORI AS
2	CORD POWER AS	12	COMPRESSOR
3	SCREW TAPPING	13	PIPE SERVICE
4	BOX M/PCB AS	14	PIPE HOT
5	SWITCH P RELAY AS	15	DRYER AS
6	HARNESS EARTH	16	PIPE SUC AS
7	SCREW MACHINE	17	PIPE CONN SUC AS
8	COVER RELAY	18	PIPE CONN DEL AS
9	CLAMP BAND RELAY	19	HOSE DRN A
10	BASE COMP AS	20	HOSE DRN B

7. PCB CIRCUIT DIAGRAMS

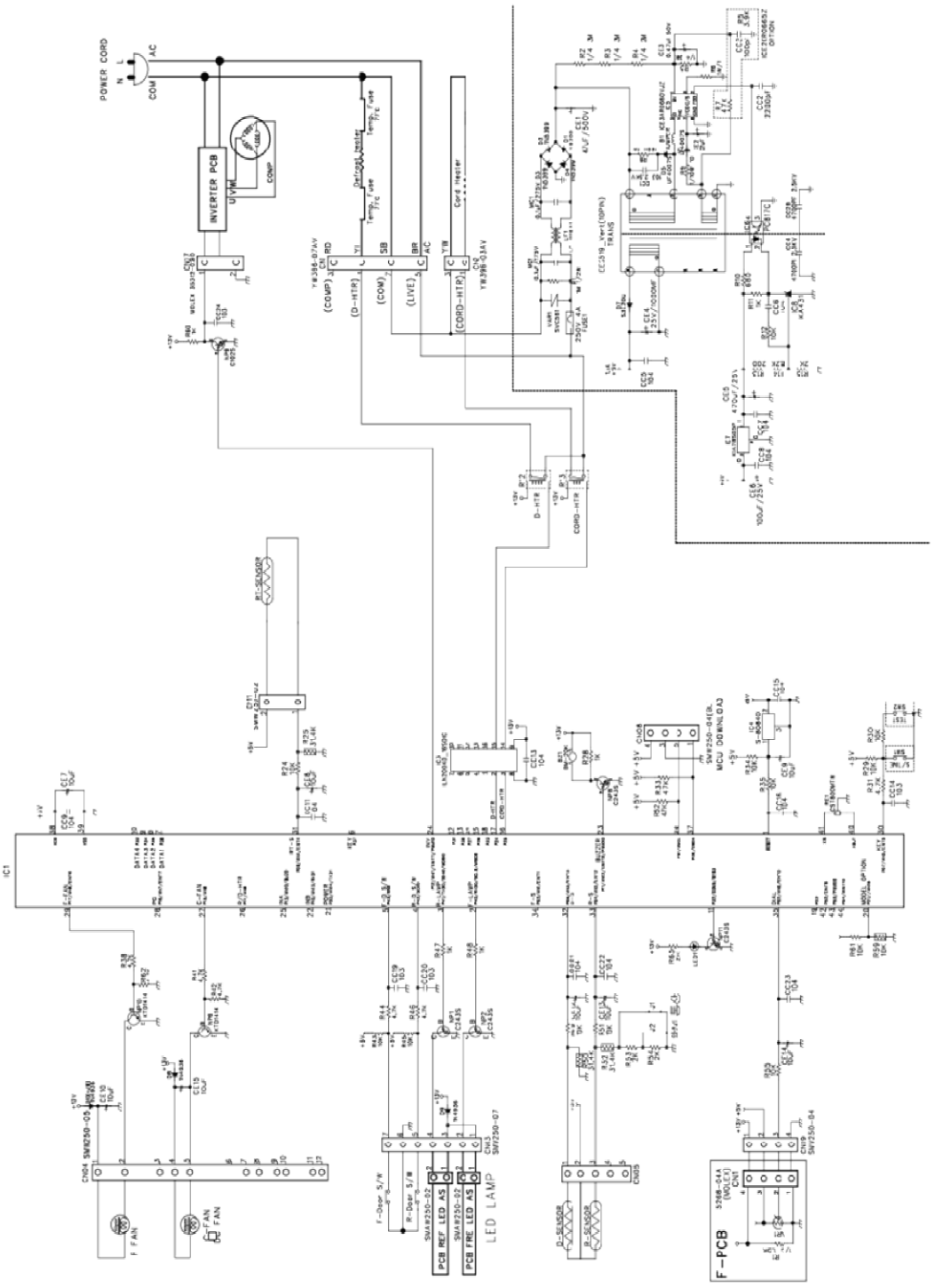
7-1. Dial Type



7-2. FCP Type


F - PCB
POWER CORD
COMP
F-FAN
R/C
Defrost Heater
L Heater
(COMP)
(D-HTR)
(COM)
(LIVE)
(L-HTR)
IC1
MCS8F6432
LED LAMP
PCB REF LED AS
PCB FRE LED AS
F-Door S/W
R-Door S/W
F-SENSOR
R-SENSOR
MCU DOWNLOAD

7-3. Dial Inverter Type



8. SPECIFICATION OF ELECTRIC PARTS

1. COMPRESSOR

	RGE34 / RGE36		RGE40	
	220~240V/50~60Hz	220~240V/50Hz	220~240V/50~60Hz	220~240V/50Hz
MODEL	LJ118DY	LJ126CY	LJ118DY	LJ126CY
STARTING TYPE	RSCR	RSCR	RSCR	RSCR
VOLTAGE	220~240V/50~60Hz	220~240V/50Hz	220~240V/50~60Hz	220~240V/50Hz
REFRIGERANT	R-600/(36g)	R-600/(36g)	R-600/(36g)	R-600/(36g)

2. RELAY

	RGE34 / RGE36		RGE40	
	220V/60Hz	230V/50Hz	220V/60Hz	230V/50Hz
PTC	Xingshuaier Radio Factory	Xingshuaier Radio Factory	Xingshuaier Radio Factory	Xingshuaier Radio Factory
STARTING TYPE	QPE2-A15MD3	QPE2-A15MD3	QPE2-A15MD3	QPE2-A15MD3

3. RUNNING CAPACITORRELAY

	RGE34 / RGE36		RGE40	
	220~240V/50~60Hz	220~240V/50Hz	220~240V/50~60Hz	220~240V/50Hz
RATED VOLTAGE	450VAC	450VAC	450VAC	450VAC
RATED CAPACITANCE	4μF	4μF	4μF	4μF

4. F-FAN MOTOR

	RGE34 / RGE-6		RGE40	
	220V/60Hz	230V/50Hz	220V/60Hz	230V/50Hz
TYPE NAME	S6112CDF09	S6112CDF09	S6112CDF09	S6112CDF09
VOLTAGE	AC 220V/60Hz	AC 230V/50Hz	AC 220V/60Hz	AC 230V/50Hz
REVOLUTION	2000 RPM (ø110)	2000 RPM(ø110)	2000 RPM(ø110)	2000 RPM(ø110)

5. C-FAN MOTOR

	RGE34 / RGE36		RGE40	
	220V/60Hz	230V/50Hz	220V/60Hz	230V/50Hz
TYPE NAME	ORM-11181B1	ORM-11181B1	ORM-11181B1	ORM-11181B1
VOLTAGE	AC 220V/60Hz	AC 230V/50Hz	AC 220V/60Hz	AC 230V/50Hz
REVOLUTION	1500 RPM(ø130)	1500 RPM(ø130)	1500 RPM(ø130)	1500 RPM(ø130)

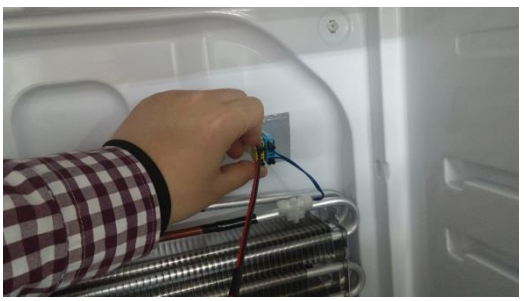
6. DEFROST HEATER

	RGE34 / RGE-6		RGE40	
	230V/50~60Hz	230V/50~60Hz	230V/50~60Hz	230V/50~60Hz
TYPE	SHEATH HEATER	SHEATH HEATER	SHEATH HEATER	SHEATH HEATER
SPEC.	AC 230V, 165W	AC 230V, 165W	AC 230V, 165W	AC 230V, 165W

9. How To Replace The Parts

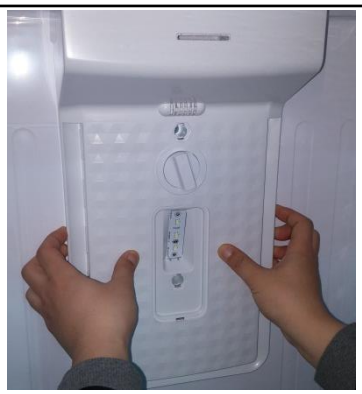
RGE34/36/40

9-1. Freezer Louver Part

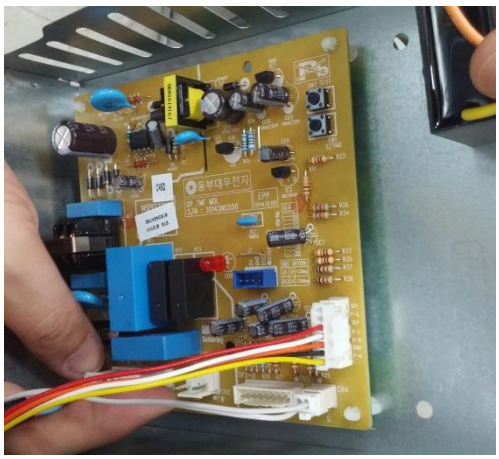
No	Photos	Description
1		- Remove ‘Freezer Shelf’ at first. - Remove 2 hole caps with (-) driver.
2		- Remove 2 screws on ‘Freezer Louver’.
3		- Pull forward the ‘Freezer Louver’.
4		- Disconnect fan motor lead wire.

9-2. M/Flow-Duct & lamp

No	Photos	Description
1		- Remove ‘hexagonal shaped cap’ with (-) driver
2		- Remove window with(-) driver.
3		- Remove ‘hexagonal shaped cap’ with (-) driver.
4		- Remove 2 screws.

No	Photos	Description
5		-Pull toward the 'M/flow duct'
6		-Pull out the lead wires of 'Lamp' and 'Sensor'
7		-Remove 'INSU M/F DUCT A' and 'INSU M/F DUCT B'
8		-Remove screw with (-) driver -Detach LAMP LED and PCB DIAL

9-3. MAIN PCB

No	Photos	Description
1		- Remove the 2 screws.
2		- Disconnect the lead wires of ‘Power cord’ and ‘compressor relay’.
3		- Remove ‘Power Cord’ and ‘ Relay Harness’. - Disconnect the housings on the Main PCB’.

9-4. FRONT PCB

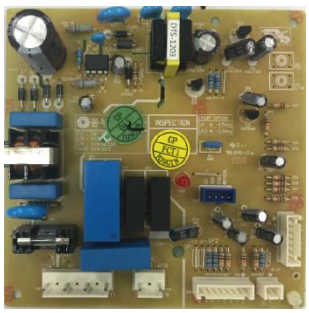
No	Photos	Description
1		- Fasten the screw with drill on the top corner of the 'Front PCB' .
2		- Pull the screw with 'Nipper' to disassemble the 'Front PCB'.
3		- Disconnect the housing on the 'Front PCB'.

10. PCB CONTROL FUNCTION

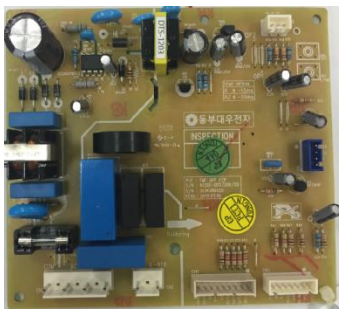
10-1. SPECIFICATIONS

구분			R-Control							
			240L	13cuft		34~400L		48~510L		
Type			Dial	Dial	Fcp	Dial	Fcp	Dial	Fcp	Dial Inverter
FNUNC.	Super Cooling		-	-	O	-	O	-	O	-
	Eco Mode		-	-	O	-	O	-	O	-
	FCP Lock		-	-		-		-		-
	Buzzer		-	-	O	-	O	-	O	O
ELECTRONICAL PARTS	Comp		Normal							Inverter
	Heater	Defrost	O	O		O		O		O
		IL	O	O		O		O		O
	Motor (DC)	F	(AC)	(AC)		(AC)		(AC)		O
		C	(AC)	(AC)		(AC)		(AC)		O
	Sensor	R	O	O		O		O		O
		D	O	O		O		O		O
		RT	O	O		O		O		O
	Door S/W	F	-	-		O		O		O
		R	O	O		O		O		O
	Lamp	F	-	-		O		O		O
		R	O	O		O		O		O
Etc.		PCB Location	Machine Room	Back		Machine Room		Machine Room		Machine Room
		RT-S Location	Dial Type - Hinge, FCP Type – Front PCB Board							

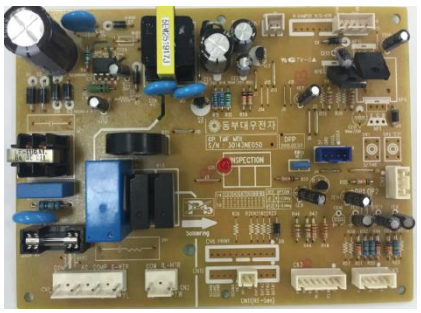
*** AC fan motor is interlocked with comp, No PCB controlls it.**



<Dial Type PCB>



<Fcp Type PCB>

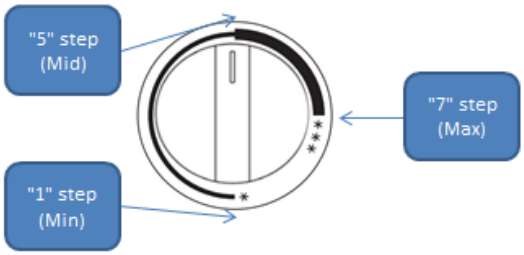


<Dial Inverter Type PCB>

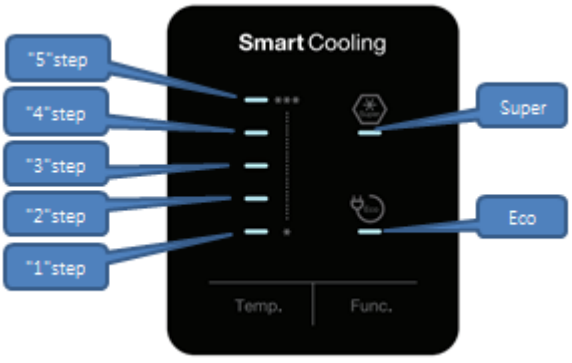
10-2. Control Pannel

A. Pannel graphic

Dial Type & Dial Inverter Type



Fcp Type



B. How to use Pannel

Dial Type & Dial Inverter Type

1. Volume Dial : it controls temperature of refrigerator by step.

① How to set temperature : Turn round “Volume Dial Knob”.

② Temperature setting sequence : 1step → 2step → 3step → 4step → 5step → 6step → 7step

(Min) (Mid) (Max)

Fcp Type

1. Temp Key : it controls temperature of refrigerator by step.

① Default : “3step"

② How to set temperature : Push “Temp.” key

③ Temperature setting sequence : 1step → 2step → 3step → 4step → 5step

(Min) (Mid) (Max)

2. Func Key : It controls special Mode of refrigerator.

① Default : Mode Off

② How to change Mode : Push “Func. “ key

③ Mode change sequence : Mode Off -> Super Mode -> Eco Mode (repeat)

10-2. Control Pannel

C. Display

Fcp Type

1. Operation

① At normal state, display led is on by 100% brightness.

② When it passes 1minutes without key operation or door operation, all led is off.

③ When there is operation for key or door at LED off condition, led display is back to the normal state.

2. Each MODE Display

1) Normal Mode Display

① Dial Display

<3Step>

<4Step>

<5Step>

<1Step>

<2Step>

② Special Mode Display

<Super>

<Eco>

10-3. Freezer Control

* The refrigerator is R-Control system. Freezer temperature is controlled by mechanical.

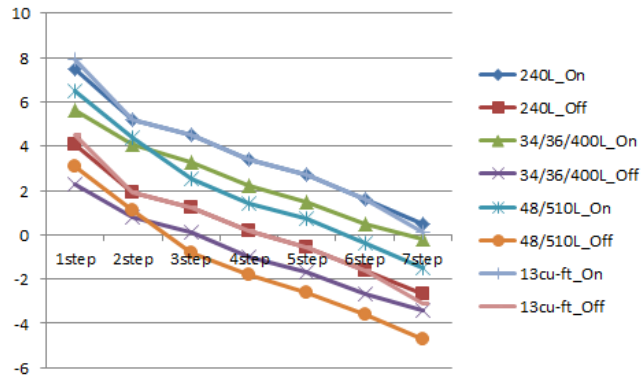
10-4. Refrigerator Control

Input	Output
*** Dial Type & Dial Inverter Type** - volume dial knob *** Fcp Type** - Front PCB “Temp” Key	- Refrigerator temperature

Dial Type & Dial Inverter Type

A. Refrigerator temperature setting (at 25℃)

Model	Temperature Adjust	1stpe	2stpe	3stpe	4stpe	5stpe	6stpe	7stpe
		Min				Mid		Max
240L	On Point(℃)	7.5	5.2	4.5	3.4	2.7	1.6	0.5
	Off Point (℃)	4.1	1.9	1.2	0.2	-0.6	-1.6	-2.7
34/36/400L	On Point (℃)	5.6	4.1	3.3	2.2	1.5	0.5	-0.2
	Off Point (℃)	2.3	0.8	0.1	-1.0	-1.7	-2.7	-3.4
48/510L	On Point (℃)	6.5	4.4	2.5	1.4	0.7	-0.4	-1.5
	Off Point (℃)	3.1	1.1	-0.8	-1.8	-2.6	-3.6	-4.7
13cu-ft	On Point (℃)	7.9	5.2	4.5	3.4	2.7	1.6	0.1
	Off Point (℃)	4.5	1.9	1.2	0.2	-0.6	-1.6	-3.1



10-4. Refrigerator Control

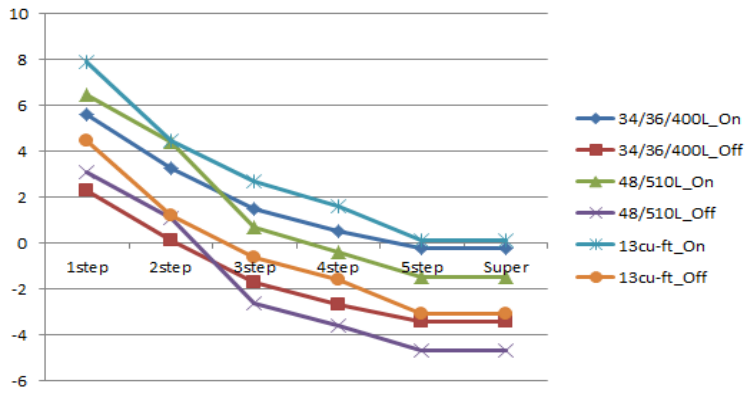
Fcp Type

A. Dial Default Setting

- “3step”

B. Refrigerator temperature setting (at 25℃)

Model	Temperature Adjust	1step	2step	3step	4step	5step	Super
		Min		Mid		Max	Max
34/36/400L	On Point(℃)	5.6	3.3	1.5	0.5	-0.2	-0.2
	Off Point (℃)	2.3	0.1	-1.7	-2.7	-3.4	-3.4
48/510L	On Point (℃)	6.5	4.4	0.7	-0.4	-1.5	-1.5
	Off Point (℃)	3.1	1.1	-2.6	-3.6	-4.7	-4.7
13cu-ft	On Point (℃)	7.9	4.5	2.7	1.6	0.1	0.1
	Off Point (℃)	4.5	1.2	-0.6	-1.6	-3.1	-3.1



10-5. Special Mode Control

Input	Output
- "Func." Key	- Super Mode - Eco Mode

Fcp Type

A. Special Mode

1) Super Mode : For quickly cooling the fridge

2) Eco Mode : For saving the power

B. Special Mode Operation

1) Super Mode

Operation time	40 minutes
COMP	Continuously On / On, Off control

2) Eco Mode

Operation time	Unlimited
COMP	On, Off control

C. Special Mode Release

1) Super Mode

- after 40 minutes .

2) Eco Mode

- Unlimited
- If open the door within 30 minutes, the Eco Mode is released

10-6. Comp Control

Input	Output
- R-Sensor - Short Circuit / Defrost Mode - Elapsed time after comp off	- Comp On/Off Operation

A. General Control

1) if Defrost Mode

Precool	Comp On
Heater On	Comp Off
Pause	Comp Off
Fan_Delay	Comp On

* compressor details operation sees chapter “Defrost Control”.

2) if Normal Mode

① R-Sensor Error

- Compressor is controlled of the time by RT-Sensor’s range.

② No R-Sensor Error

- Compressor is controlled of the setting On/Off point (reference 7-4)

  - R-Sensor <= Comp Off point -> Comp Off

  - R-Sensor > Comp On point -> Comp On

B. Prevention of Compressor Restart

- Compressor doesn’t work within 6minutes after Compressor turns off. (This is to protect comp)

ex) Compressor doesn’t work after COMP turns off even though R-sensor is on condition

10-7. Defrost Control

Input	Output
- RT / D-Sensor - Comp operation time / Real Time - Comp operation rate / Door Open Time	- Defrost Heater On/Off Operation

A. Initial Defrost

CONTENTS	EXPLANATION	
Inrush conditions	If the temperature at the D-sensor is under 3.5˚C, Defrost Mode starts. When D-Sensor Error is happened, the initial defrost function isn't performed .	
Each stage Release conditions	PreCool	- Exception
	Heater On	① D-Sensor > 13℃ ② after 60 minutes
	Pause	- after 10 minutes
	Fan_Delay	*** Dial & Fcp Type** – Exception *** Dial Inverter Type** - after 1 minute
Mode release	Auto closed after performing functions	

10-7. Defrost Control

B. Normal Defrost Mode

CONTENTS	EXPLANATION	
Inrush conditions	① When total operation time of compressor becomes: 6, 8, 10, 12 hours. ◆ Defrost conditions ⅰ. Any Error happens - R1, D1, RT, dF, dr, F3, C1 Error ⅱ. running rate of COMP (per 2hrs of total operation time) is more than 90%. ⅲ. total door open time is over 2 minutes. ② Even if the above condition “Defrost conditions” is not satisfied, ⅰ. Defrost mode starts immediately when total operation time of COMP is 14hrs. ⅱ. defrost mode starts immediately as long as total time (COMP on time + COMP off time) is 72 hrs.	
Each stage Release conditions	PreCool	① R-Sensor > Comp Off Point - 3.0℃ ② after 25 minutes
	Heater On	case 1) D-Sensor Error - after 30 minutes case 2) RT-Mode is “Normal-B” & No open the door & running rate of comp is less than 80% - D-Sensor > 7℃ case 3) if Comp Operating time is 6hours and the next Defrost ① D-Sensor > 15℃ ② after 70 minutes case 4) Else ① D-Sensor > 13℃ ② after 60 minutes
	Pause	case 1) if Comp Operating time is 6hours and the next Defrost - after 20 minutes case 2) Else - after 10 minutes
	Fan_Delay	*** Dial & Fcp Type** – Exception *** Dial Inverter Type** - after 1 minute
Mode release	Auto closed after performing functions	

10-7. Defrost Control

C. Low Temp. Defrost Mode

CONTENTS	EXPLANATION	
Inrush conditions	When RT Mode is Low-A,B, “Low Temp. defrost mode” starts immediately as long as total time (COMP on + off time) is 24 hrs. ◆ Mode Maintain conditions ⅰ. RT Mode must maintain Low-A,B	
Each stage Release conditions	PreCool	① R-Sensor > Comp Off Point - 3.0℃ ② after 25 minutes
	Heater On	case 1) D-Sensor Error - after 30 minutes case 2) RT-Mode is “Normal-A” & No open the door - D-Sensor > 7℃ case 3) Else ① D-Sensor > 13℃ ② after 60 minutes
	Pause	- after 10 minutes
	Fan_Delay	*** Dial & Fcp Type** – Exception *** Dial Inverter Type** - after 1 minute
Mode release	When RT Mode isn;t low A, B, “Low Temp. defrost mode” is turned off immediately. At Low Temp. Defrost Mode, normal defrost mode is performed by satisfying the normal conditions.	

D. High Temp. Defrost Mode

CONTENTS	EXPLANATION	
Inrush conditions	When RT Mode is High-A,B, Defrost mode starts immediately when total operation time of COMP is 24hrs. ◆ Mode Maintain conditions ⅰ. RT Mode must maintain High-A,B ⅱ. The door maintains closing. ⅲ. No happened the Error	
Each stage Release conditions	PreCool	① R-Sensor > Comp Off Point - 3.0℃ ② after 25 minutes
	Heater On	① D-Sensor > 13℃ ② after 60 minutes
	Pause	- after 10 minutes
	Fan_Delay	*** Dial & Fcp Type** – Exception *** Dial Inverter Type** - after 1 minute
Mode release	When the condition doesn’t maintain, “High Temp. defrost mode” is turned off immediately. If “High Temp. defrost mode” is released, normal defrost mode is performed.	

10-7. Defrost Control

*** Defrost Flow**

* General Defrost Flow

Defrost initial setting -> Precool -> Heater On -> Pause -> Fan_Delay -> Defrost end setting

Ⅰ. Defrost initial setting

- Each check conditions are initialization.

Ⅱ. Precool

1) Inrush conditions : after ‘Defrost initial setting” completion.

2) Operation: Comp is On.

Ⅲ. Heater On

1) Inrush conditions : aftr 'Precool' completion.

2) Operation : Defrost Heater On.

Ⅳ. Pause

1) Inrush conditions : after 'Heater On' completion

2) Operation : Comp, Defrost Heater Off

Ⅴ. Fan_Delay

1) Inrush conditions : after ‘Pause' completion.

2) Operation : Comp, C-Fan On

Ⅵ. Defrost end setting

- Each check conditions are initialization.

CONTENTS		Precool	HTR On	Pause	FAN Delay
Each stage Release conditions		Refer “Defrost Flow”			
Parts.	Comp, C Fan	On	off	Off	On
	F-Fan	On	off	Off	Off
	Defrost-HTR	Off	On	Off	Off

10-8. Buzzer Control

Input	Output
- Front key - Open the door more than 3 minute	- Operate buzzer sound.

Fcp Type & Dial Inverter Type

A. At power on

- After 2 seconds power's on, the buzzer rings 3 times.(sound : bbi~ bbi~ bbi~)

B. Front Key

- Whenever "PCB Control Panel" button's pushed, the buzzer rings.(sound : bbi~ bi~)

C. Test mode entry

- Operate mode changing sound

Mode	Buzzer sound	
As Forced Defrost Mode	Entry	3 short beeps (sound : bbi bbi bbi)
	Release	No sound
Demo Mode	Entry	3 long beeps (sound : bbi~ bbi~ bbi~)
	Release	1 long beep (sound : bbi~~)
Jig Mode	Entry	1 short beep (sound : bbi)
	Release	3 long beeps (sound : bbi~ bbi~ bbi~)
Fine Adjustment Mode	Entry	3 long beeps (sound : bbi~ bbi~ bbi~)
	Release	1 long beep (sound : bbi~~)

D. Door Open Alarm

- When door opens for 3 minutes, the buzzer rings every 1 minute for 5 minutes. (sound : bbi bbi bbi)

10-9. Door Switch Control

Input	Output
- High / Low Signal	- Door Open / Closes State

A. F/R Door Switch

1) Door Open

- Door Open -> Door Switch On -> Micom Low (0V) signal Input.

2) Door Close

- Door Close -> Door Switch Off -> Micom High (5V) signal Input.

10-10. Lamp Control

Input	Output
- Door Open / Closes State - Lamp On Elapsed time	- Lamp On / Off Operation

A. F/R Lamp

1) Door Switch Error

- F/R Lamp is always off.

2) No Door Switch Error

① Door Open -> Lamp On, After 10 minutes, Lamp is forcibly off.

② Door Close -> Lamp Off.

Dial Type & Dial Inverter Type

*Exception) Line Defrost test Display

- This feature operates only within 120 minutes after the power is turned on.
- When A/S Froced Defrost Mode is entered, R-Lamp operates as follows

① Sensor Error -> R-Lamp is blinks for 30 seconds.

② No Sensor Error -> R-Lamp is forcibly on.

10-11. Cord Heater Control

Input	Output
- RT-Mode	- IL-Heater On / Off Operation

A. Cord-Heater Operation

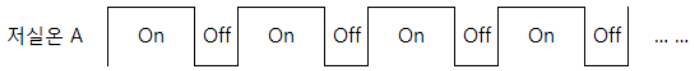
1) Defrost Mode

- Always maintain the Off state.

2) Else

① RT-Mode is Low-A

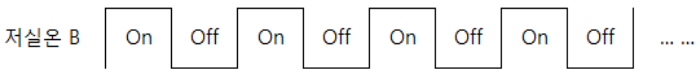
- It is controlled by setting time.



Model	On time	Off time
48/510L	25 minutes	5 minutes
else	20 minutes	10 minutes

② RT-Mode is Low-B

- It is controlled by setting time.



Model	On time	Off time
48/510L	15 minutes	15 minutes
else	15 minutes	15 minutes

③ The other RT-Mode and RT-Sensor Error

- Always maintain the Off state.

10-12. Function Switch Control (Main PCB Location)

Input	Output
- Test Switch - Time Switch	- Short Circuit / Power Saving / As Froced Defrost Mode selection. - Time Pass control

A. Test Switch

- Using Test Swtich (Part No. SW2) in the Main PCB, short-circuit mode, the Power Saving mode,

  As forced defrost mode can be entered.

default	->	Test Switch 1 time	->	Test Switch 2 times	->	Test Switch 3 times
Short Circuit : Off		**Short Circuit : On**		Short Circuit : Off		Short Circuit : Off
Power Saving : Off		Power Saving : Off		**Power Saving : On**		Power Saving : Off
As forced defrost : Off		As forced defrost : Off		As forced defrost : Off		**As forced defrost : On**
Long beeps 3 times		Short beeps 1 time		Short beeps 2 time		Short beeps 3 time

* Pushing the Test Switch for 4 times, Test Mode is become default state.

B. Time Switch

- Using Test Swtich (Part No. SW2) in the Main PCB, it can send forcedly the time.

  ① Short Click the Time Switch (within 1 second)

  - 1 min : Click Time Switch one time on MAIN PCB.

  ② Push the Time Switch (more than 1 second)

  - 30 min : If you press FAST KEY continuously, you can reduce 30 minutes on each 2.5 seconds with buzzer.

10-13. Mode Control

Fcp Type can be entered the mode within 2 hours.
After 2 hours, The mode enterable environment is activated by pushing "TEMP + "FUNC" Key for 10 seconds.

A. As Forced Defrost Mode

1) How to enter

① How to enter through Key Operation

*** Dial Type & Dial Inverter Type**

- by pressing “R-Door” switch for continuously and “Volume Dial” is ratated from 1 step to 7 step.

*** Fcp Type**

- by press “TEMP” button for continuously and “FUNC” button 5 times.

② How to enter through Main PCB Test Switch

- See part of the “Test Switch” in “Function Switch Control” Chapter.

2) Operation

- Process: same as General Defrost Mode except “PRE-COOL”

- Heater is on Initial 60 seconds even though the temp.

(for TEST)

CONTENTS		HTR On	Pause	Fan_Delay
Limited Time		60 minutes	10 minutes	1 minutes
Each stage Release conditions		1. Limited Time 2. D-S > 13℃	Limited Time	Limited Time
Parts.	Comp	Off	Off	On
	Defrost-HTR	On	Off	Off

3) Mode release : Auto closed after performing functions.

B. Short Circuit Test Mode

1) How to enter : See part of the “Test Switch” in “Function Switch Control” Chapter.

(It is available to restart the test and it’ll be take 30 hours.)

2) Operation

- COMP & FAN will be on independent of the operating condition.

- There is no defrost mode on this test.

3) Mode release : after the limit test time 30 hours passes.

10-13. Mode Control

C. Error Display Mode

Dial Type & Dial Inverter Type

1) To confirm error happens or not, check LED on MAIN PCB

2) Operation

Priority	Error Code	Method to control
1	R1	Main PCB LED 1 time blink
2	RT	Main PCB LED 2 times blink
3	D1	Main PCB LED 3 times blink
4	dr	Main PCB LED 4 times blink
5	dF	Main PCB LED 5 times blink
6	F3	Main PCB LED 6 times blink

3) Mode release : Automatic reset become when all error codes return to normal condition.

Fcp Type

1) How to enter : by pressing “FUNC” button for continuously and “TEMP” button 5 times.

2) Operation

- To confirm error happens or not, check Display LED
- When No Error, Only Eco LED blink.

① R Sensor Open : Fridge Temperature Bar "1“step LED On

R Sensor Short : Fridge Temperature Bar "1“step LED Twinkle

② RT Sensor Open : Fridge Temperature Bar "2“step LED On

RT Sensor Short : Fridge Temperature Bar "2“step Twinkle

③ D Sensor Open : Fridge Temperature Bar "3“step On

D Sensor Short : Fridge Temperature Bar "3“step Led Twinkle

④ F Door Error : Fridge Temperature Bar "4“step Led On

⑤ R Door Error : Fridge Temperature Bar "5“step Led On

⑥ Cycle Error : Super Led On

⑦ Return Defrost Error : Super Led Twinkle

3) Mode release : Push “FUNC” 1 time.

Display	고장 증상
Fridge Temperature Bar "1"step LED On	R Sensor Open
Fridge Temperature Bar "1"step LED Twinkle	R Sensor Short
Fridge Temperature Bar "2"step LED On	RT Sensor Open
Fridge Temperature Bar "2"step LED Twinkle	RT Sensor Short
Fridge Temperature Bar "3"step LED On	D Sensor Open
Fridge Temperature Bar "3"step LED Twinkle	D Sensor Short
Fridge Temperature Bar "4"step LED On	F Door Error
Fridge Temperature Bar "5"step LED On	R Door Error
Super LED On	Cycle Error
Super LED Twinkle	Return Defrost Error

10-13. Mode Control

Fcp Type

D. Fine Adjustment Mode

1) How to enter : by pressing “TEMP” buttons for 10 seconds.

2) Operation

- When enter the mode, Only Super LED blink

- On / Off point is varied by fine adjustment value.

DISPLAY	Eco	Fridge Temperature Bar					fine adjustment value
		"1“step	"2"step	"3"step	"4"step	"5"step	
LED ON/OFF	■	■	■	■	■	■	-5
	■	■	■	■	■		-4
	■	■	■	■			-3
	■	■	■				-2
	■	■					-1
							0
		■					1
		■	■				2
		■	■	■			3
		■	■	■	■		4
		■	■	■	■	■	5

■ : LED On

□ : LED OFF

3) Mode release : When it passes 5seconds without key operation, auto closed the mode.

E. Demo Mode

1) How to enter : by pressing “FUNC” buttons for 10 seconds.

2) Operation

- All electronic compartments are off except “Display Panel”.

- “1“step -> “2“step -> “3“step -> “4“step -> “5“step -> Super -> Eco -> All Led Off

- When “DEMO” mode works, led lamps will be on as next steps.

3) Mode release : by pressing “FUNC” buttons for 10 seconds

10-14. Control of R-sensor OFF Point

Input	Output
- J1, J2 On Main PCB	- Control Resistance of R sensor OFF Point

A. LOW COOLING OPTION

(1) Adjust R-Sensor off point (Max 3.0deg down)

(2) the following actions are recommended for service.

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

② Resistance (R53) : Cut the “J1” off to reduce basic resistance by 1.5°C. (2KΩ up)

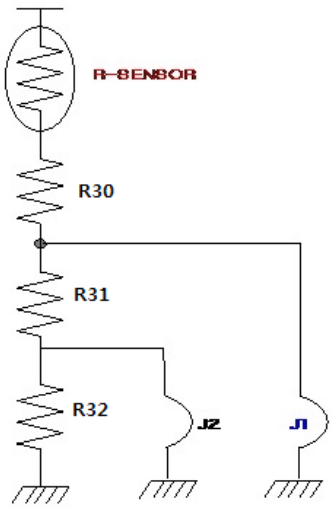
③ Resistance (R54) : Cut the “J2” off additionally to reduce basic resistance by 1.5°C. (total 4KΩ up)

ex) R52 = R-SENSOR OFF point

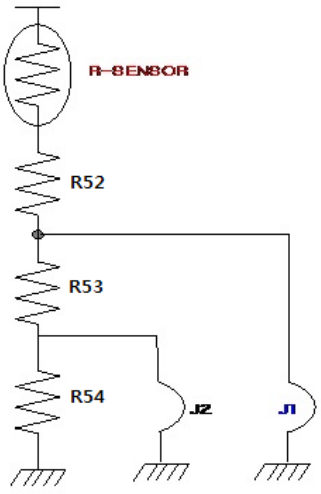
R52 + R53 = R-SENSOR OFF point - 1.5°C

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

Dial Type



Fcp Type & Dial Inverter Type



10-15. Error Code

A. R-Sensor Error

1) Error Code : R1

2) Condition : ① R-Sensor Open : It happens when R-Sensor is sensing less than -45℃

② R-Sensor Short : It happens when R-Sensor is sensing more than 50℃

3) release : When R-Sensor is sensing from -45 to 50℃.

B. RT-Sensor Error

1) Error Code : Rt

2) Condition : ① RT-Sensor Open : It happens when RT-Sensor is sensing less than -45℃

② RT-Sensor Short : It happens when RT-Sensor is sensing more than 50℃

3) release : When RT-Sensor is sensing from -45 to 50℃.

C. D-Sensor Error

1) Error Code : D1

2) Condition : ① D-Sensor Open : It happens when D-Sensor is sensing less than -45℃

② D-Sensor Short : It happens when D-Sensor is sensing more than 50℃

3) release : When D-Sensor is sensing from -45 to 50℃

D. R-Door Error

1) Error Code : dr

2) Condition : It happens when the system senses R-Door opens more than 1 hour

3) release : If R-Door switch (close) is sensed, the error is terminated automatically

E. F-Door Error

1) Error Code : dF

2) Condition : It happens when the system senses F-Door opens more than 1 hour

3) release : If F-Door switch (close) is sensed, the error is terminated automatically

F. Cycle Error

1) Error Code : C1

2) Condition : When D-Sensor is more than -5°C, Comp operates over 3 hours

3) release : When Comp is off, D-Sensor is less than -5°C.

* When D-Sensor is normal operation, "C1" Error can be checked.

G. Return Defrost Error

1) Error Code : F3

2) Condition : Return to next limit defrost time.

3) release : Completion of defrost returned by D-Sensor.

* When D-Sensor is normal operation, “F3" Error can be checked.

10-16. Sensor Table

1. R, D, RT Sensor Table

TEMP(℃)	MIN (Kohm)	MEAN (Kohm)	MAX (Kohm)	Resistance Tolerance(%)	Temp Tolerance(%)
-30	-124.72	130.48	136.38	4.525	0.84
-25	95.942	100.11	104.36	4.249	0.814
-20	74.425	77.458	80.542	3.982	0.788
-15	58.197	60.418	62.668	3.724	0.761
-10	45.858	47.494	49.144	3.474	0.733
-5	36.402	37.612	38.828	3.233	0.703
0	29.1	30	30.9	3	0.673
5	23.319	24.093	24.87	3.226	0.747
10	18.81	19.476	20.147	3.446	0.822
15	15.271	15.844	16.424	3.66	0.899
20	12.473	12.967	13.469	3.868	0.979
25	10.248	10.675	11.11	4.07	1.061
30	8.4682	8.8375	9.2145	4.267	1.145
35	7.0353	7.3556	7.6835	4.458	1.232
40	5.8755	6.154	6.4398	4.645	1.32
45	4.9317	5.1743	5.4241	4.826	1.411

2. F Sensor Table

TEMP(℃)	MIN (Kohm)	MEAN (Kohm)	MAX (Kohm)	Resistance Tolerance(%)	Temp Tolerance(%)
-30	37.402	39.657	41.942	5.763	0.971
-25	28.021	29.618	31.228	5.436	0.947
-20	21.192	22.333	23.477	5.122	0.922
-15	16.118	16.995	17.875	5.179	0.964
-10	12.339	13.046	13.76	5.47	1.051
-5	9.5266	10.1	10.68	5.75	1.141
0	7.4154	7.8816	8.3561	6.021	1.233
5	5.8173	6.1983	6.5876	6.282	1.328
10	4.5979	4.9106	5.2316	6.535	1.425
15	3.6603	3.9182	4.1839	6.78	1.525
20	2.9341	3.1478	3.3687	7.017	1.627
25	2.3676	2.5455	2.73	7.246	1.732
30	1.9227	2.0715	2.2262	7.469	1.84
35	1.5711	1.696	1.8264	7.684	1.95
40	1.2913	1.3968	1.507	7.894	2.063
45	1.0675	1.1568	1.2505	8.097	2.179

10-17. Constraint

A. H/W Constraint

■ According to the local environment and Micom Spec, hardware function can be constrained.

B. S/W Constraint

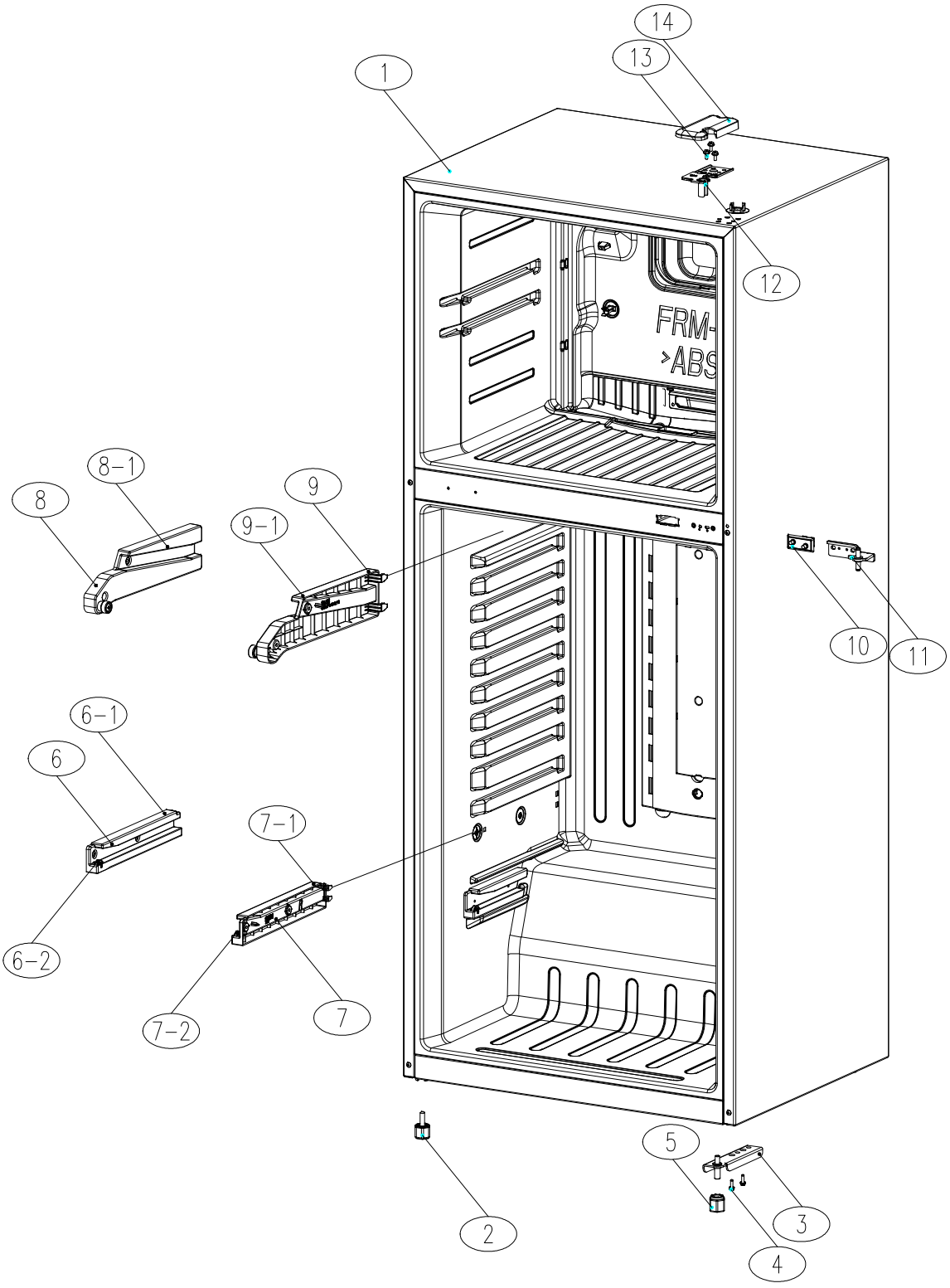
■ Depending on the amount of memory and CPU performance may be different from the S / W performance results

■ When operating with other and different applications, it may be deteriorated.

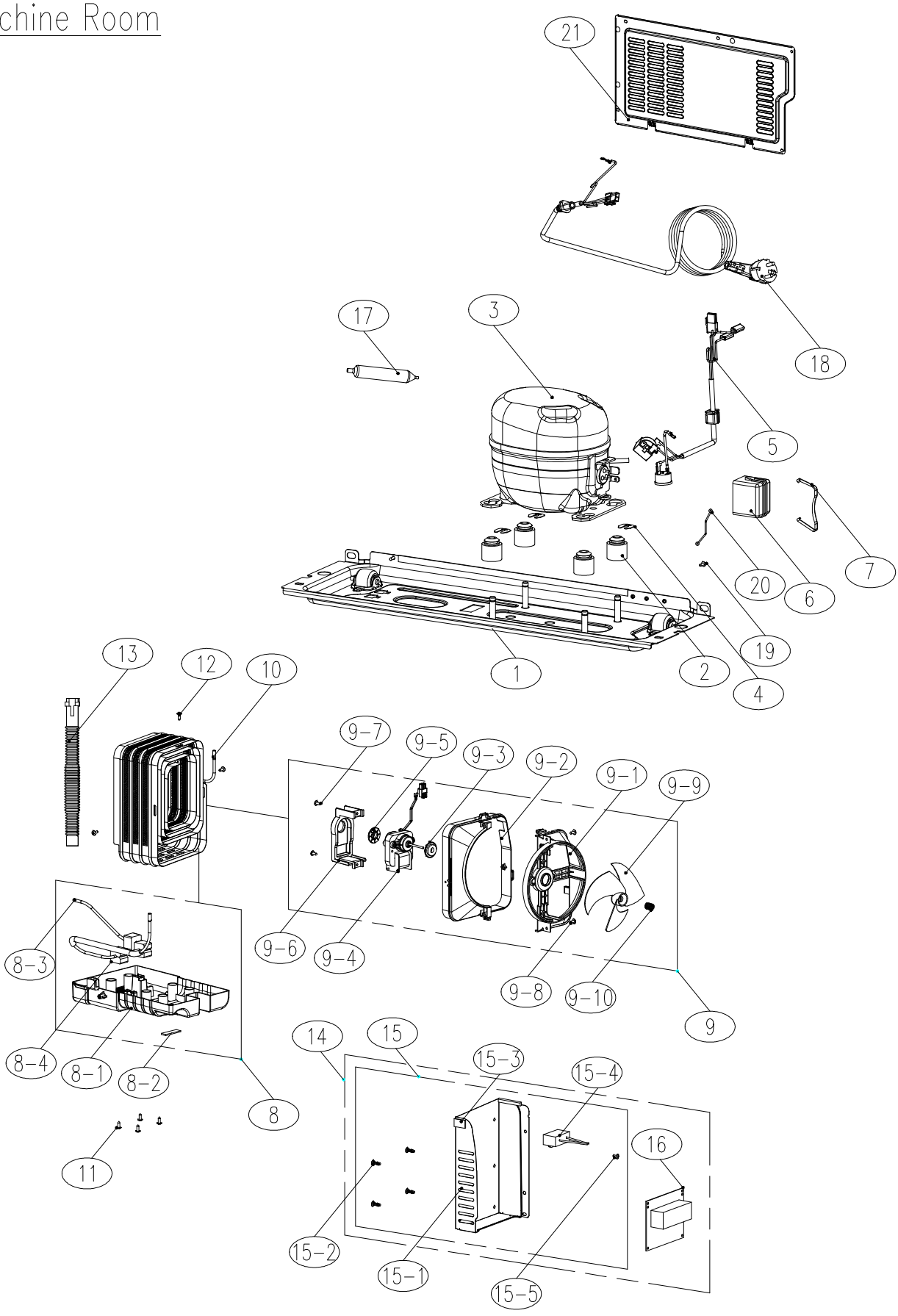
11. EXPLODED VIEW AND PART LIST

RGE34/36/40

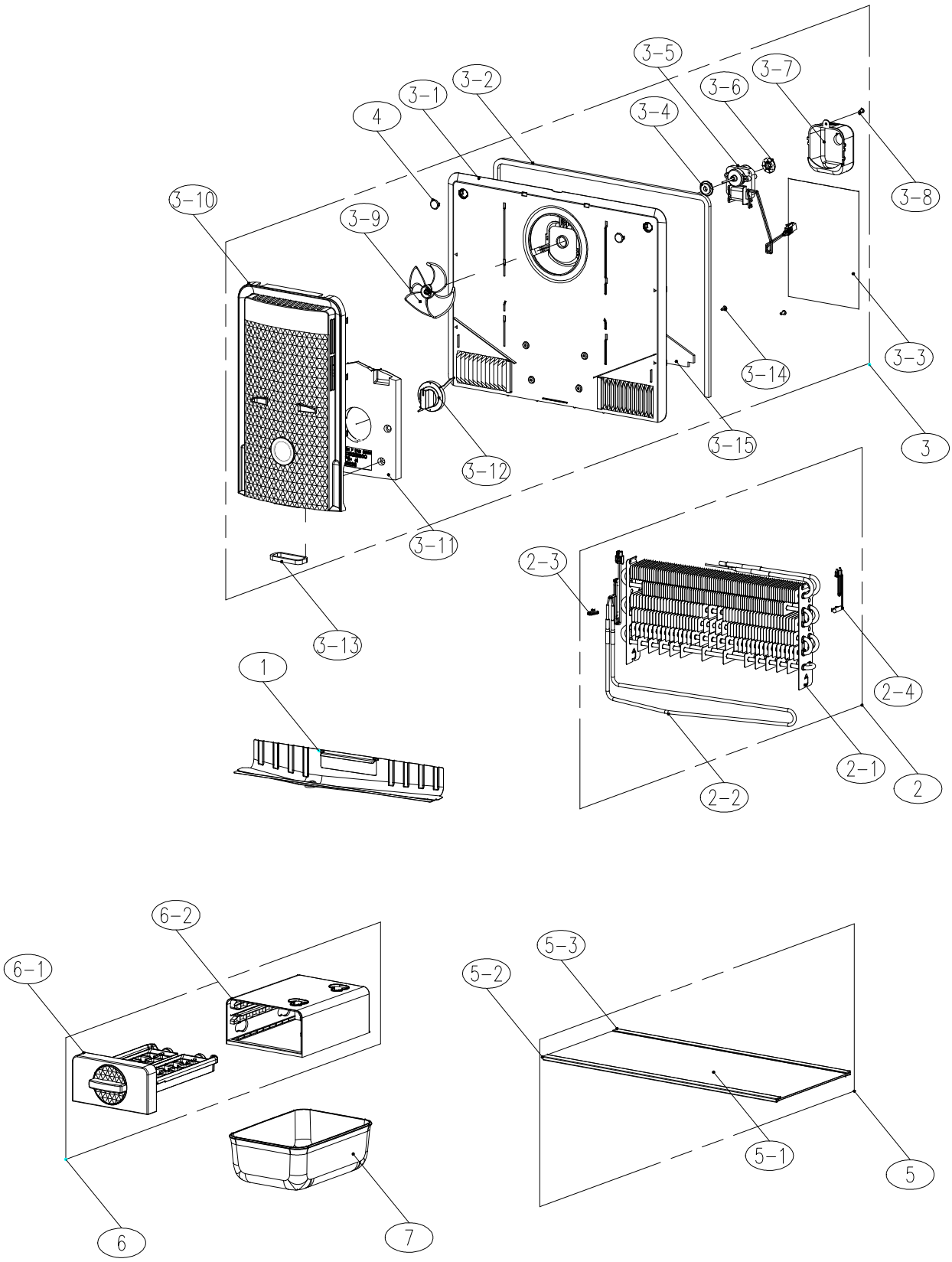
CABINET



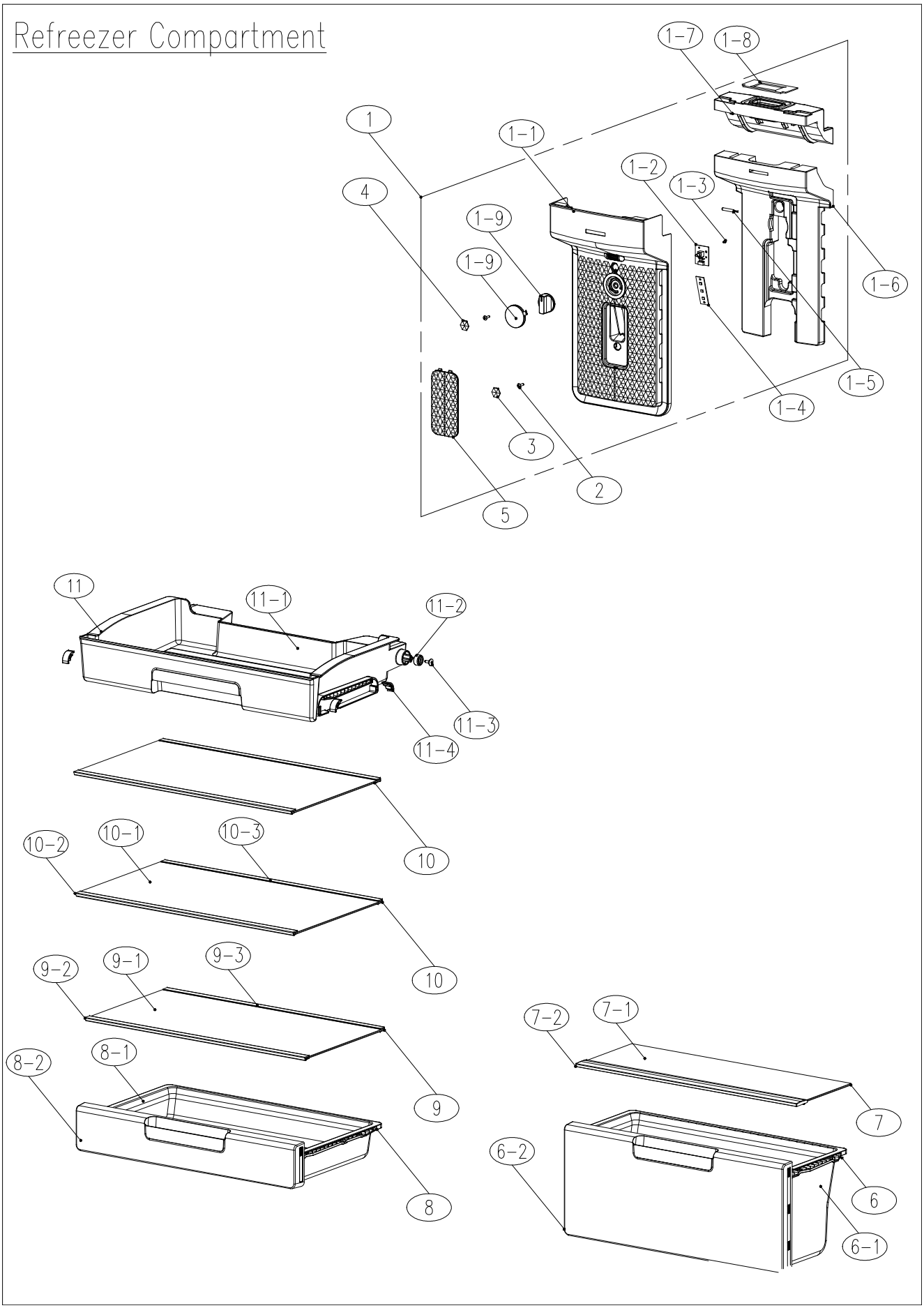
Machine Room



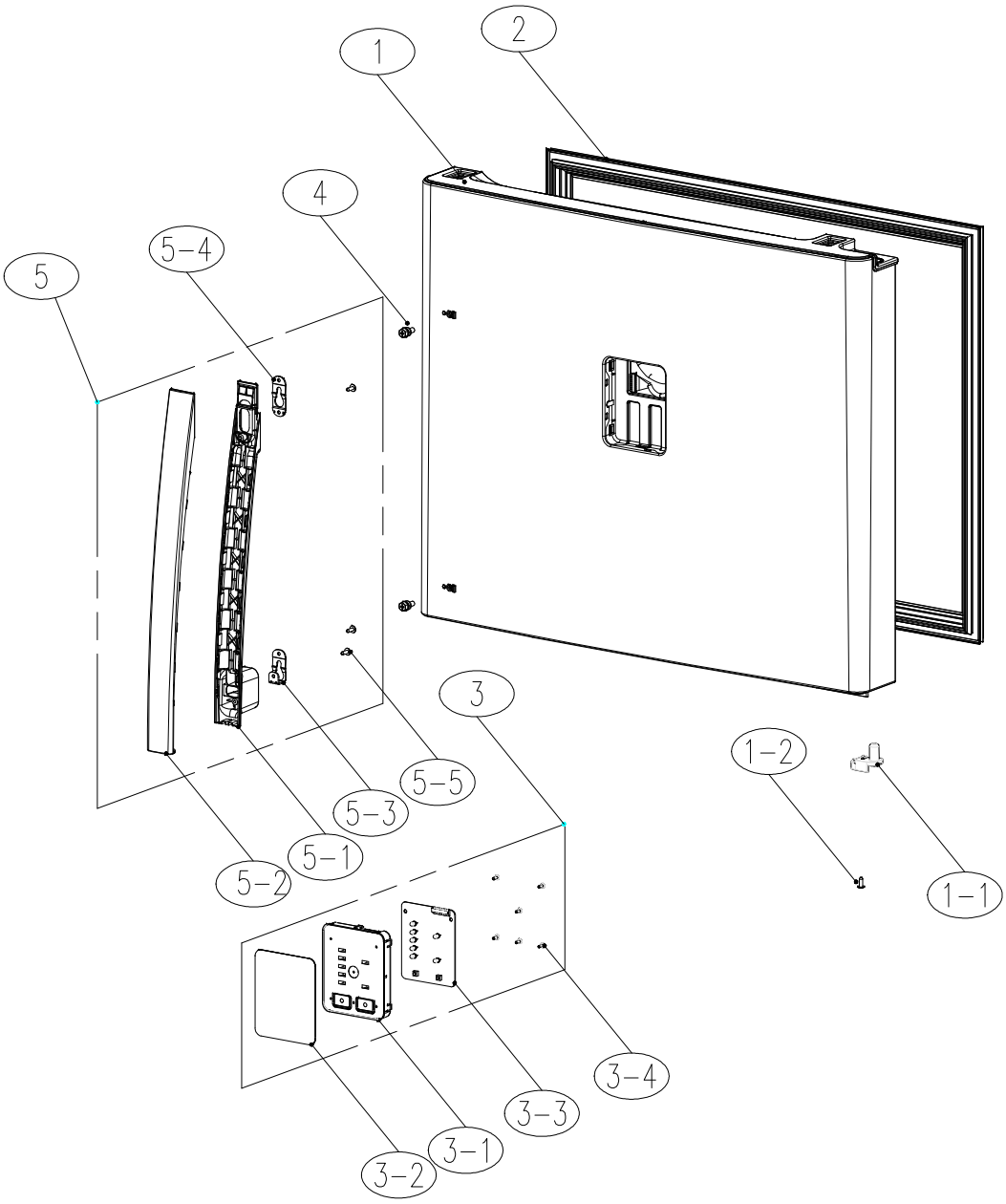
Freezer Compartment

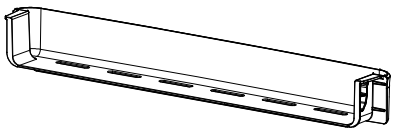


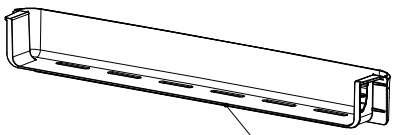
Refreezer Compartment



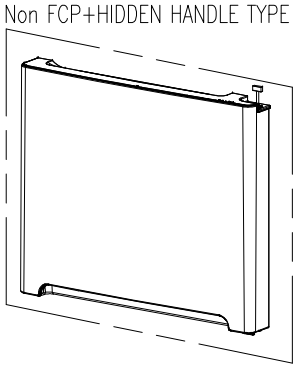
F DOOR



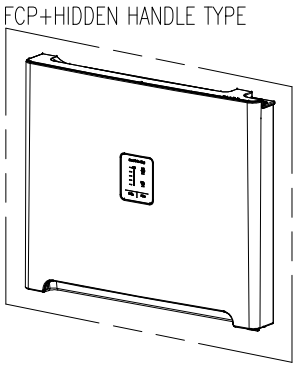




Non FCP+HIDDEN HANDLE TYPE

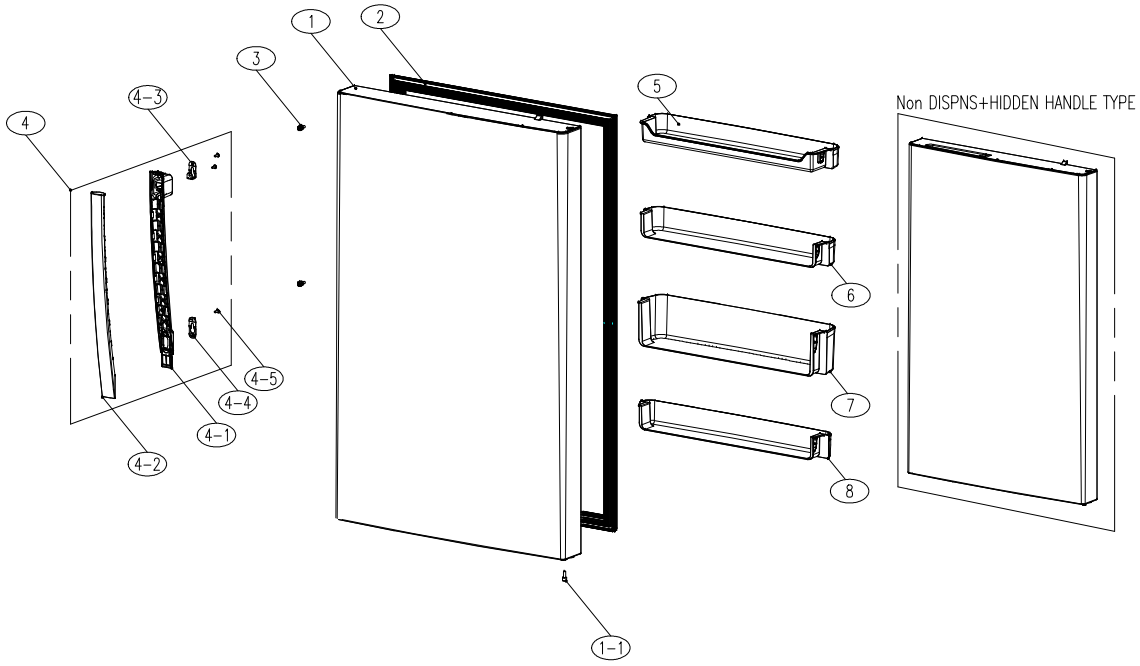


FCP+HIDDEN HANDLE TYPE

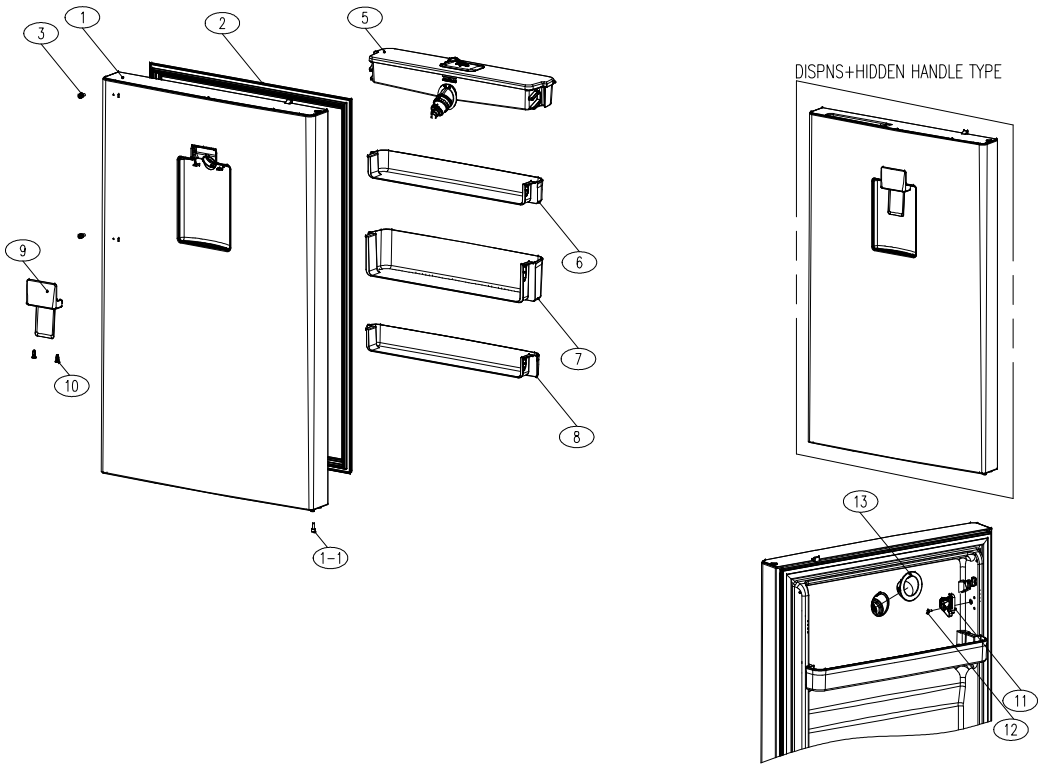


R DOOR

Non DISPNS TYPE



DISPNS TYPE



RGE34/36/40 PART LIST

NO	PART NUMBER	PART NAME	PART DESCRIPTION	Q'ty	Remark
		CABINET			
1		ASSY CAB URT	AS	1	
		ASSY CAB URT	AS	1	
		ASSY CAB URT	AS	1	
2	3012106500	FOOT ADJ *L AS	PP+INSERT	1	RGE34/36/40Common
3	3012939300	HINGE *U AS	AS	1	RGE34/36/40Common
4	3016003300	SPECIAL BOLT	T2 M6.5*20	2	
5	3012106600	FOOT ADJ AS	PP J370A+M10 NUT	1	RGE34/36/40Common
6	3012555500	GUIDE C/C *L AS	AS	1	RGE34/36Common
	3012555600	GUIDE C/C *L AS	AS	1	RGE40
6-1	3012554300	GUIDE C/C *L	PP	1	RGE34/36Common
	3012554500	GUIDE C/C *L	PP	1	RGE40
7	3012555700	GUIDE C/C *R AS	AS, OPTION	1	RGE34/36Common
	3012555800	GUIDE C/C *R AS	AS, OPTION	1	RGE40
7-1	3012554400	GUIDE C/C *R	PP	1	RGE34/36Common
	3012554600	GUIDE C/C *R	PP	1	RGE40
8	30125-0034300	GUIDE U/C *L AS	AS	1	RGE34/36Common
	30125-0034500	GUIDE U/C *L AS	AS	1	RGE40
8-1	3012557200	GUIDE U/C *L	PP	1	RGE34/36Common
	3012557400	GUIDE U/C *L	PP	1	RGE40
9	30125-0034400	GUIDE U/C *R AS	AS	1	RGE34/36Common
	30125-0034600	GUIDE U/C *R AS	AS	1	RGE40
9-1	3012557300	GUIDE U/C *R	PP	1	RGE34/36Common
	3012557500	GUIDE U/C *R	PP	1	RGE40
10	3018100010	SWITCH DR	2 BUTTON/4P,DSD-5	1	RGE34/36/40Common
11	3012941700	HINGE *M AS	AS	1	RGE34/36/40Common
12	3012939200	HINGE *T AS	SCP-1, 2.6T / DIAL TYPE		RGE34/36/40Common
	3012935400	HINGE *T AS	SHP1, 2.6T / FCP TYPE	1	RGE34/36/40Common
13	3016001250	SPECIAL BOLT *M	6*15 SWCH22A(WH)	1	
14	30149DS00	COVER *T HI	PP, DIAL TYPE	1	RGE34/36/40Common
	3001445400	COVER *T HI	PP, FCP TYPE	1	RGE34/36/40Common
		MACHINE ROOM			
1	30103-0029000	BASE COMP AS	AS	2	RGE34/36/40Common
2	3010101600	ABSORBER COMP	NBR	1	
3	39561LJC6A	COMPRESSOR	LJ118DY, 220V/60HZ	1	RGE34/36/40Common
	39516LJC5A	COMPRESSOR	LJ126CY, 230V/50HZ	1	RGE34/36/40Common

NO	PART NUMBER	PART NAME	PART DESCRIPTION	Q'ty	Remark
4	4019H09031	SPECIAL WASHER	SWRH	3	
5	60181-0010001	SWITCH P RELAY AS	220V/60HZ, LJ118DY	1	RGE34/36/40Common
	3018136500	SWITCH P RELAY AS	230V/50HZ, LJ126CY	1	RGE34/36/40Common
6	3811404100	COVER RELAY	PP	1	
7	3816100120	CLAMP BAND		1	
8	30111-0043400	CASE VAPORI AS	AS	1	RGE34/36/40Common
8-1	301119YY00	CASE VAPORI	PP NATURAL	1	
8-2	3017708380	SEAL LUVR	F-PE, T2*W12*L40	1	
8-3	60144-0025800	PIPE DELI CONN AS	AS	1	
8-4	3018501200	SEAL PIPE	PE+EPDM, 26*26*20	1	
9	30185-0002100	M/BELL AS	AS, 220V/60HZ	1	RGE34/36/40Common
	30185-0002300	M/BELL AS	AS, 230V/50HZ	1	RGE34/36/40Common
9-1	3018501200	M/BELL A1	PP NATURAL	1	
9-2	3018501300	M/BELL A2	PP NATURAL	1	
9-3	3010107100	ABSORBER F MOTR	NBR	1	
9-4	3015925800	MOTOR C FAN	AC, 1500RPM, 220V/60HZ	1	RGE34/36/40Common
	3015925400	MOTOR C FAN	AC, 1500RPM, 230V/50HZ	1	RGE34/36/40Common
9-5	3010107100	ABSORBER F MOTR	NBR	1	
9-6	3012048300	FIXTURE C MOTOR	PP NATURAL	1	
9-7	7122401011	SCREW TAPPING	T2 TRS 4*10 MFZN	2	
9-8	7122401011	SCREW TAPPING	T2 TRS 4*10 MFZN	2	
9-9	3011836500	FAN	OD130, ABS	1	RGE34/36/40Common
9-10	3011200510	CLAMP FAN	SUS 304(SPRING) OD9.7	1	
10	3014486600	PIPE WICON AS	AS	1	RGE34/36/40Common
11	7112400811	SCREW TAPPING	T1 TRS 4*8 MFZN	4	
12	7122401211	SCREW TAPPIING	T1 TRS 4*12 MFZN	3	
13	3013201700	HOSE DRN B	PE	1	
14	30105-0031200	BOX M/PCB AS	AS, DIAL TYPE	1	RGE34/36/40Common
	30105-0031400	BOX M/PCB AS	AS, FCP TYPE	1	RGE34/36/40Common
15	30105-0031300	BOX M/PCB SAS	SAS, DIAL TYPE	1	RGE34/36/40Common
	30105-0031500	BOX M/PCB SAS	SAS, FCP TYPE	1	RGE34/36/40Common
15-1	3010586800	BOX M/PCB	SGCC T0.4	1	
15-2	3012047600	FIXTURE M/PCB	NYLON 66	1	
15-3	3017760600	SEAL FLAP MULTI DUCCT	F-PE(G) T2*W15*L50	1	
15-4	3016407040	CAPACITOR RUN	450V, 4UF(WIRE HOUSING,CQC)	1	RGE34/36/40Common
15-5	7122401011	SCREW TAPPING	T2S TRS 4*10 MFZN	1	

NO	PART NUMBER	PART NAME	PART DESCRIPTION	Q'ty	Remark
16	30143NC010	REF PCB MAIN ASSY	FR-1, 122*97*1.6T, DIAL TYPE	1	RGE34/36/40Common
	30143ND010	REF PCB MAIN ASSY	FR-1, 122*97*1.6T, FCP TYPE	1	RGE34/36/40Common
17	3016808220	DRYER AS	10G, SINGLE TUBE	1	RGE34/36/40Common
18	60113-0006600	CORD POWER AS	LP 61L	1	
19	3012701170	HARNESS EARTH	L145	1	
20	7S422X4081	SPECIAL SCREW	TT3 TRS 4*8 SE MFZN	3	RGE34/36/40Common
21	300149E200	COVER MACH RM	SGCC, T0.25	1	RGE34/36/40Common
Freezer Compartment					
1	3012554700	GUIDE DRN	GL. T0.35	1	RGE34/36/40Common
2	60170-0008900	EVA AS	AS	1	RGE34/36/40Common
2-1	60170-0009000	EVA SAS	SAS	1	RGE34/36/40Common
2-2	3012834100	HEATER SHEATH AS	230V	1	RGE34/36/40Common
2-3	4856813100	CABLE TIE	DA-140	1	
2-4	3012767720	SENSOR D AS	ABS CAP, L110	1	
3	30189-0012200	LOUVER F AS	AS, 220V/60HZ	1	RGE34/36/40Common
	30189-0012300	LOUVER F AS	AS, 230V/50HZ	1	RGE34/36/40Common
3-1	3018905300	LOUVER F	PP J370A	1	RGE34/36/40Common
3-2	3018905300	SEAL MULTI DUCT	F-OJC, T5*W88L1300	1	
3-3	2TA0301QWH	TAPE ALUMINUM	AL, T0.03*W170	1	
3-4	3010107100	ABSORBER MOTOR	NBR	1	
3-5	3015925500	MOTOR F FAN	220V/60HZ, 2000Rpm	1	RGE34/36/40Common
	3015925100	MOTOR F FAN	230V/50HZ, 2000Rpm	1	RGE34/36/40Common
3-6	3010107100	ABSORBER MOTOR	NBR	1	
3-7	3012045400	FIXTURE MOTR *B	PP J370A	1	RGE34/36/40Common
3-8	7112401211	SCREW TAPPING	T2 TRS 4X12 MFZN	1	
3-9	3011802700	FAN AS	FAN(OD110)+CLAMP	1	RGE34/36/40Common
3-10	301149FU00	COVER F FAN	PP, 2.5T, SILK PRINT	1	RGE34/36/40Common
3-11	3013331600	INSU F FNA COVR	EPS ZKF-401	1	RGE34/36/40Common
3-12	3013417100	KNOB F CONTL	HIPS	1	RGE34/36/40Common
3-13	301779EWOO	SEAL F FAN COVR	EPDM T8*W34*L75	1	
3-14	7122401411	SCREW TAPPING	T2 TRS 4X12 MFZN	1	
3-15	60177-0055400	SEAL F LUVR	F-PE(G) T5*W450*L65(SHAPE)	1	
4	3010924600	CAP F LOUVER	HIPS	2	

NO	PART NUMBER	PART NAME	PART DESCRIPTION	Q'ty	Remark
5	30178-0026500	SHELF F GLAS AS	AS	1	RGE34/36Common
	30178-0026600	SHELF F GLAS AS	AS	1	RGE40
5-1	3017867700	SHELF F GLAS	W567*251.5, T3.2	1	RGE34/36Common
	3017867800	SHELF F GLAS	W567*296.5, T3.2	1	RGE40
5-2	3011615100	DECO GLASS SHELF *F	ABS+URT(EXT), W567	1	RGE34/36/40Common
5-3	3011615000	DECO GLASS SHELF *B	ABS+URT(EXT), W567	1	RGE34/36/40Common
6	30104-0026000	BODY I/MAKER AS	AS, OPTION	1	RGE34/36/40Common
6-1	30122-0033100	FRAME I/MAKER AS	AS	1	
6-2	3010405000	BODY I MAKER	HIPS	1	
7	301119YU00	CASE ICE	PP	1	RGE34/36/40Common
		Refreezer Compartment			
1	30114-0077400	COVER M/FLOW DUCT AS	AS, DIAL TYPE	1	RGE34/36/40Common
	30114-0077300	COVER M/FLOW DUCT AS	AS, FCP TYPE	1	RGE34/36/40Common
1-1	301149FV00	COVER M/FLOW DUCT	PP, SILK PRINT	1	RGE34/36/40Common
1-2	30143KW260	REF PCB SUB ASSY	AS, DIAL TYPE	1	RGE34/36/40Common
1-3	7121300811	SCREW TAPPING	T2S PAN 3*8 MFZN, DIAL TYPE	1	RGE34/36/40Common
1-4	30136A1600	LAMP LED AS	3 Spot	1	
1-5	3012796000	HARNESS M/F DUCT AS	AS, VOLUME+SENSOR+LED	1	RGE34/36/40Common
	60127-0037801	HARNESS M/F DUCT AS	AS, SENSOR+LDE/FCP TYPE	1	RGE34/36/40Common
1-6	3013392300	INSU M/F DUCT A1	EPS ZKF-401	1	RGE34/36/40Common
1-7	3013392400	INSU M/F DUCT A2	EPS ZKF-401	1	RGE34/36/40Common
1-8	60177-0055500	SEAL M/FLOW DUCT A1	F-OJC T3*W150*D70	1	RGE34/36/40Common
1-9	3013417300	KNOB R CONTL	HIPS, DIAL TYPE	1	RGE34/36/40Common
	301099YA00	CAP KNOB R CONTL	HIPS, FCP TYPE	1	RGE34/36/40Common
2	7122401411	SCREW TAPPING	T2S TRS 4*14 MFZN	2	RGE34/36/40Common
3	301099YB00	CAP M/F DUCT	HIPS	1	
4	301099YB00	CAP M/F DUCT	HIPS	1	
5	3015530S00	WINDOW R LAMP	GPPS	1	RGE34/36/40Common
6	30111-0042900	CASE VEGETB AS	AS	1	RGE40
	30111-0043000	CASE VEGETB AS	AS	1	RGE34/36Common
6-1	301119YZ00	CASE VEGETB	PP	1	RGE34/36Common
	301119Z000	CASE VEGETB	PP	1	RGE40
6-2	3015530T00	WINDOW V/CASE	GPPS, SILK PRINT+HOT SP	1	RGE34/36/40Common

NO	PART NUMBER	PART NAME	PART DESCRIPTION	Q'ty	Remark
7	30178-0025600	SHELF V/CASE AS	AS	1	RGE34/36Common
	30178-0025800	SHELF V/CASE AS	AS	1	RGE40
7-1	30178-0025500	SHELF V/CASE GLAS	W567*D193.5, T3.2	1	RGE34/36Common
	30178-0025700	SHELF V/CASE GLAS	W567*D238.5, T3.2	1	RGE40
7-2	3011673300	DECO V/CASE SHELF *F	PP	1	RGE34/36/40Common
8	30111-0043100	CASE FRESH AS	AS, OPTION	1	RGE34/36Common
	30111-0043200	CASE FRESH AS	AS, OPTION	1	RGE40
8-1	301119YS00	CASE FRESH	PP	1	RGE34/36Common
	301119YT00	CASE FRESH	PP	1	RGE40
8-2	3015530R00	WINDOW FRESH CASE	GPPS, SILK PRINT+HOT SP	1	RGE34/36/40Common
9	30178-0026900	SHELF F/CASE GLAS AS	AS	1	RGE34/36Common
	30178-0027000	SHELF F/CASE GLAS AS	AS	1	RGE40
9-1	30178-0026300	SHELF F/CASE GLAS	W567*D294, T3.2	1	RGE34/36Common
	30178-0026400	SHELF F/CASE GLAS	W567*D339, T3.2	1	RGE40
9-2	3011615100	DECO SHELF GLAS *F	ABS+URT L567		"10-2" Common
9-3	3011615000	DECO SHELF GLAS *B	ABS+URT L567	1	"10-3" Common
10	30178-0026700	SHELF R GLAS AS	AS	2	RGE34/36Common
	30178-0026800	SHELF R GLAS AS	AS	2	RGE40
10-1	30178-0026100	SHELF R GLAS	W567*D325, T3.2	1	RGE34/36Common
	30178-0026200	SHELF R GLAS	W567*D370, T3.2	1	RGE40
11	30111-0042700	CASE UTIL AS	AS, OPTION	1	RGE34/36Common
	30111-0042800	CASE UTIL AS	AS, OPTION	1	RGE40
11-1	301119YW00	CASE UTILITY	GPPS	1	RGE34/36Common
	301119YX00	CASE UTILITY	GPPS	1	RGE40
11-2	3010708300	ROLLER UTIL CASE	PP	1	RGE34/36/40Common
11-3	30106-0012000	ABSORBER UTIL CASE	SILICON	1	RGE34/36/40Common
11-4	3010146100	SPECIAL SCREW	SWCH 1018A, ZN+NI Plating	1	RGE34/36/40Common
		F Door			
1		ASSY F DR URT	AS, DIAL TYPE	1	RGE34/36/40Common
		ASSY F DR URT	AS, FCP TYPE	1	RGE34/36/40Common
		ASSY F DR URT	AS ("5" Non GRIP HANDLE)	1	RGE34/36/40Common
1-1	3010708200	BUSH F DR CAP *U	POM(TX*11H)	1	RGE34/36/40Common
1-2	7122401611	SCREW TAPPING	T2S TRS 4X16 MFZN	1	
2	3012332900	GASKET F DR AS	PVC-S	1	RGE34/36/40Common
3	60142-0022200	PANEL CONTL *F AS	AS, FCP TYPE	1	RGE34/36/40Common
3-1	3014263600	PANEL CONTL *F	ABS	1	RGE34/36/40Common
3-2	30155-0019100	WINDOW FCP AS	PC	1	RGE34/36/40Common
3-3	30143NE160	REF PCB FRONT ASSY	FR-1, 81*196-1.6T	1	RGE34/36/40Common
3-4	7173300811	SCREW TAPPING	TT2 BIN 3*8 MFZN	1	

NO	PART NUMBER	PART NAME	PART DESCRIPTION	Q'ty	Remark
4	3016046400	SPECIAL BOLT HNDL	M6, SWCH10A	1	
5	30126-0021300	HANDLE F AS	AS	1	RGE34/36/40Common
5-1	3012663N00	HANDLE F	ABS	1	
5-2	3011673000	DECO F HANDLE	ABS	1	
5-3	3012048400	FIXTURE HNDL A2	SPCC, 1.6T Zn Plating	1	
5-4	30120-0024400	FIXTURE HNDL A1	SPCC, 1.6T Zn Plating	1	
5-5	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	1	
6	3019074000	POCKET F	GPPS	1	RGE34/36/40Common
		R Door			
1		ASSY R DR URT	AS	1	RGE34
		ASSY R DR URT	AS, DISPNS TYPE	1	RGE34
		ASSY R DR URT	AS("4" Non GRIP HANDLE)	1	RGE34,HIDDEN
		ASSY R DR URT	AS		RGE34
		ASSY R DR URT	AS	1	RGE34
		ASSY R DR URT	AS("4" Non GRIP HANDLE)	1	RGE34,HIDDEN
1-1	3016047410	SPECIAL STOPPER DR BOLT	TAP-TITE 5*16	1	
2	3012333100	GASKET R DR AS	PVC-S	1	RGE34/36/40Common
3	3016046400	SPECIAL BOLT HNDL	M6, SWCH10A	2	
4	3012655600	HANDLE R AS	AS	1	RGE34/36/40Common
4-1	3012663P00	HANDLE R	ABS	1	
4-2	3011673200	DECO R HANDLE	ABS	1	RGE34/36/40Common
4-3	3012048400	FIXTURE HNDL A2	SPCC, 1.6T Zn Plating	1	RGE34/36/40Common
4-4	30120-0024400	FIXTURE HNDL A1	SPCC, 1.6T Zn Plating	1	RGE34/36/40Common
4-5	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	3	
5	3019074300	POCKET R *T	GPPS	1	RGE34/36/40Common
	30182-0003800	TANK WATER AS	AS, DISPNS TYPE	1	RGE34/36/40Common
6	3019074200	POCKET R *M	GPPS	1	RGE34/36/40Common
7	3019074100	POCKET JUMBO	GPPS, SILK PRINT	1	RGE34/36/40Common
8	3019074400	POCKET R *U	GPPS	1	RGE34/36/40Common
9	60142-0022100	PANEL DISPNS AS	AS, DISPNS TYPE	1	RGE34/36/40Common
10	3012042100	FIXTURE K	ABS, DISPNS TYPE	1	RGE34/36/40Common
11	3015206400	STOPPER W/TANK *R	ABS, DISPNS TYPE	1	RGE34/36/40Common
12	7112401211	SCREW TAPPING	T1 TRS 4*12 MFZN, DISPNS	1	RGE34/36/40Common
13	3013002100	HOLDER W/TANK	LDPE, DISPNS TYPE	1	RGE34/36/40Common