

■ MODEL : BASF1/BASF2/BASF3(FREEZER) BASR1/BASR2/BASR3(REFRIGERATOR)
BAGR72 (REACH-IN MERCHANDISERS)

A. COMMERCIAL FREEZER, REFRIGERATOR GENERAL

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1. SPECIFICATION

1) GENERAL – 1,2Door

PRODUCT		SOLID DOOR FREEZER		SOLID DOOR REFRIGERATOR	
MODEL		BASF1	BASF2	BASR1	BASR2
Capacity (Cu,Ft)		23	49	23	49
Net Capacity (Cu,Ft)		20.8	45.2	20.8	45.2
Exterior Dimension (Including casters) (in)	(W)	27.4	55.1	27.4	55.1
	(D)	31.3			
	(H)	83.9			
Interior Dimension (Including casters) (in)	(W)	23.6	51.4	23.6	51.4
	(D)	25			
	(H)	60.8			
Net Weight (lbs)		295	499	288	475
Door Type		Swing 1EA	Swing 2EA	Swing 1EA	Swing 2EA
Door Material		Stainless steel (SUS304)			
Shelves		4EA	8EA	4EA	8EA
Power Voltage		AC 115V/60Hz			
Plug in - Installation		NEMA 5-15P			
Amps		8.5A	9.5A	7.5A	7.5A
Compressor		1/2HP	3/4HP	3/8Hp	3/8HP
Refrigerant		R404a (12.0 oz)	R404a (22.2 oz)	R134a (8.5 oz)	R134a (11.3 oz)
Range of Temperature		Below 0°F		32 ~ 40°F	
Door auto-close equipment		Auto-close for Spring			
Door stop equipment		120 ° Stop			
Air suction equipment		Air damper			
Caster		4in × 4EA			
Condensing unit		Sliding Type			

◆ Above specifications are subjected to change without prior notice for quality improvement.

◆ The nameplate(includes Serial Number) is located on the upper left of the cabint interior.

2) MAIN COMPONENTS – 1,2Door

PRODUCT	SOLID DOOR FREEZER		SOLID DOOR REFRIGERATOR	
MODEL	BASF1	BASF2	BASR1	BASR2
Compressor (Manufacture)	CAE2420Z(A) (Tecumseh-France)	CAJ2432Z(A) (Tecumseh-France)	SK6A1C-H2Y (Samsung-Korea)	
Compressor Capacity	LBP 571kcal/h	LBP 808kcal/h	HBP 1120kcal/h	
Type of Compressor motor	CSIR	CSR	RSIR	
Compressor O.L.P	MST16AHN	GA3PJU00	4TM811XHBZZ-53	
Compressor Relay	3ARR12KPF*483	3ARR3*5R*	MTRP0052-02	
Starting Capacitor	315 μ F / 160V	315 μ F / 160V	-	
Running Capacitor	-	30 μ F / 400V	-	
Type of Evaporator	Cu pipe + Al fin + Blue color coating			
Evaporator pipe Dimensions	3/8"			
Cooling Fan Motor	IS3225LTSA, 120V/60Hz			
Type of Condenser	Cu pipe + Al fin			
Evaporator pipe Dimensions	3/8"			
Condenser Fan Motor	MA7425W1, 120V/60Hz			
Drier	OD 1", XH-9, 1.06oz			
Temperature Control	Thermistor		Thermostat (K55-Q5618)	
Running Indication	Digital Display		Indication Lamp	
Interior Temp. Indication	Digital Display		Circle analog Thermometer	
Interior Lamp	40W $\times$ 1EA			
Defrost for evaporator	Heated defrost (Control of thermistor)		Off cycle	
Defrost sheath heater	450W	670W	-	-
Defrost pan heater	60W	90W	-	-
Drain heater	9W		-	-
Door switch	SP201R-7DR, AC125V			
Power switch	SL112A, AC125V/12A			

3) GENERAL – 3Door

PRODUCT		SOLID DOOR FREEZER	SOLID DOOR REFRIGERATOR	REACH IN MERCHANDISERS	
MODEL		BASF3	BASR3	BAGR72	
Capacity (Cu,Ft)		70			
Net Capacity (Cu,Ft)		66.3			
Exterior Dimension (Including casters) (in)	(W)	78			
	(D)	31.3			
	(H)	83.9			
Interior Dimension (Including casters) (in)	(W)	74.2			
	(D)	25			
	(H)	60.8			
Net Weight (lbs)		622	609	716	
Door Type		Swing 3EA			
Door Material		Stainless steel (SUS304)		Glass + Al	
Shelves		12EA			
Power Voltage		AC115/208-230V 60Hz	AC 115V/60Hz		
Plug in – Installation		NEMA 14-20P	NEMA 5-15P		
Amps		9.0A	10.0A	11.9A	
Compressor		1.1HP	1/2HP	1/2Hp	
Refrigerant		R404a (23.6 oz)	R134a (14.1 oz)	R134a (17.6 oz)	
Range of Temperature		Below 0°F	32 ~ 40°F		
Door auto-close equipment		Auto-close for Spring			
Door stop equipment		120 ° Stop			
Air suction equipment		Air damper			
Caster		Caster 4in × 6EA		Adjust foot 6EA	
Condensing unit		Sliding Type			
Door switch		SP201R-7DR, AC125V		-	
Power(or Lamp) switch		SL112A, AC125V/12A			

◆ Above specifications are subjected to change without prior notice for quality improvement.

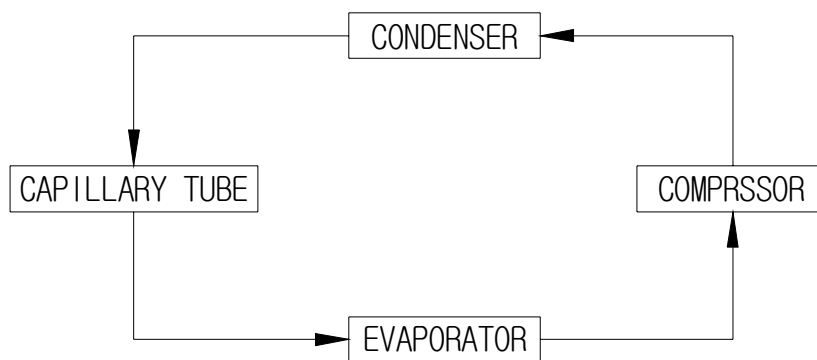
◆ The nameplate(includes Serial Number) is located on the upper left of the cabint interior.

4) MAIN COMPONENTS – 3Door

PRODUCT	SOLID DOOR FREEZER	SOLID DOOR REFRIGERATOR	REACH IN MERCHANDISERS	
MODEL	BASF3	BASR3	BAGR72	
Compressor (Manufacture)	CAJ2446Z(H) (Tecumseh-France)	CAJ4461Y(A) (Tecumseh-France)	CAJ4476Y(A) (Tecumseh-France)	
Compressor Capacity	LBP 1219kcal/h	HBP 1586kcal/h	HBP 1946kcal/h	
Type of Compressor motor	CSR	CSIR	CSIR	
Compressor O.L.P	MST00AHN	GA3SJU81	CRA38014	
Compressor Relay	3ARR3*3A*	3ARR18A100B	3ARR3*2M*	
Starting Capacitor	88 μ F /260V	250 μ F /160V	250 μ F /160V	
Running Capacitor	15 μ F /400V	–	–	
Type of Evaporator	Cu pipe + Al fin Blue color coating		Cu pipe + Al fin	
Evaporator pipe Dimensions	1/2"			
Cooling Fan Motor	IS3225LTSA, 120V/60Hz			
Type of Condenser	Cu pipe + Al fin			
Evaporator pipe Dimensions	3/8"			
Condenser Fan Motor	MA7425W1, 120V/60Hz			
Drier	OD 1", XH-9, 1.06oz			
Temperature Control	Thermistor		Thermostat (GNF-246L)	
Running Indication	Digital Display		–	
Interior Temp. Indication	Digital Display		–	
Interior Lamp	40W $\times$ 2EA		32W $\times$ 2EA (Fluorescent Lamp)	
Ad. Panel Fluorescent Lamp	–		32W $\times$ 2EA	
Ballast	–		32W(Double) $\times$ 2EA	
Ballast Name (Manufacture)	–		DY232 IS120 (DOYOUNG)	
Defrost for evaporator	Heated defrost (Control of thermistor)	Off cycle		
Defrost sheath heater	944W	–	–	
Defrost pan heater	128W	–	–	
Drain heater	9W	–	–	

2. REFRIGERATION CYCLE

Mechanical refrigeration is accomplished by continuously circulating, evaporating, and condensing a fixed supply of refrigerant in a closed system. Evaporation occurs at low temperature and pressure while condensation occurs at high temperature and pressure. Thus it is possible to transfer heat from an area of low temperature (i.e., refrigerated compartment) to an area of high temperature (i.e., surrounding of refrigerator).



THE BASE REFRIGERATION CYCLE

Beginning the cycle at the evaporator inlet the low pressure liquid expands, absorbs heat (so refrigerator inner-cabinet is cooled), and evaporates, changing to low pressure gas at the evaporator outlet.

The compressor pumps this gas from the evaporator, increases its pressure, and discharges the high pressured- temperature gas to the condenser.

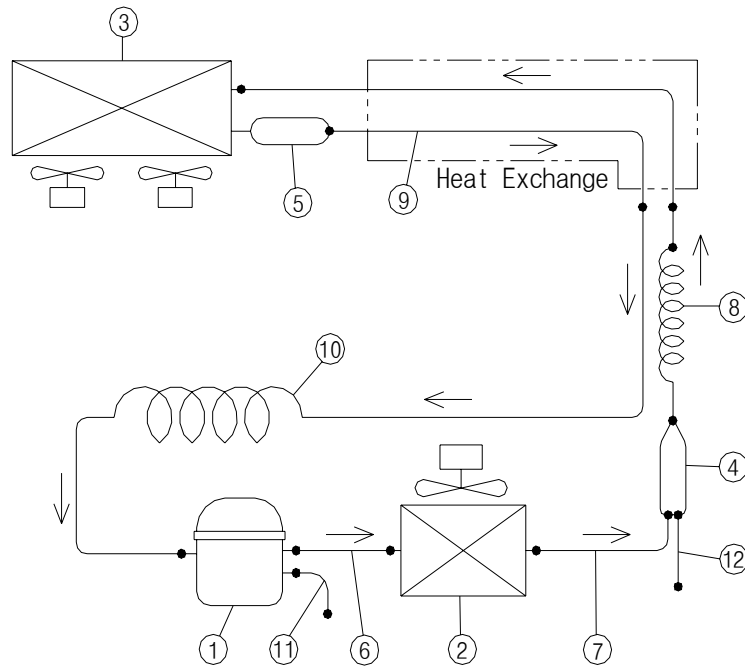
The condenser lets high pressured- temperature gas emit the heat (so surrounding of the condenser is warmed) in order to make it condense.

The capillary tube prevents high pressured- temperature gas from entering the evaporator in order to lower the pressure in the evaporator and control the flow of refrigerant into the evaporator automatically.

Eventually the desired air temperature in refrigerator inner-cabinet is reached, the thermostat (temperature controller) will break the electrical circuit to the compressor motor and stop the compressor.

As the temperature of the air rises, the thermostat(or controller) remakes the electrical circuit.
The compressor starts, and cycle continues.

The schematic refrigeration(or freezing) cycle of BASF1/BASF2/BASF3/BASR1/BASR2
BASR3/BAGR72 is like below.

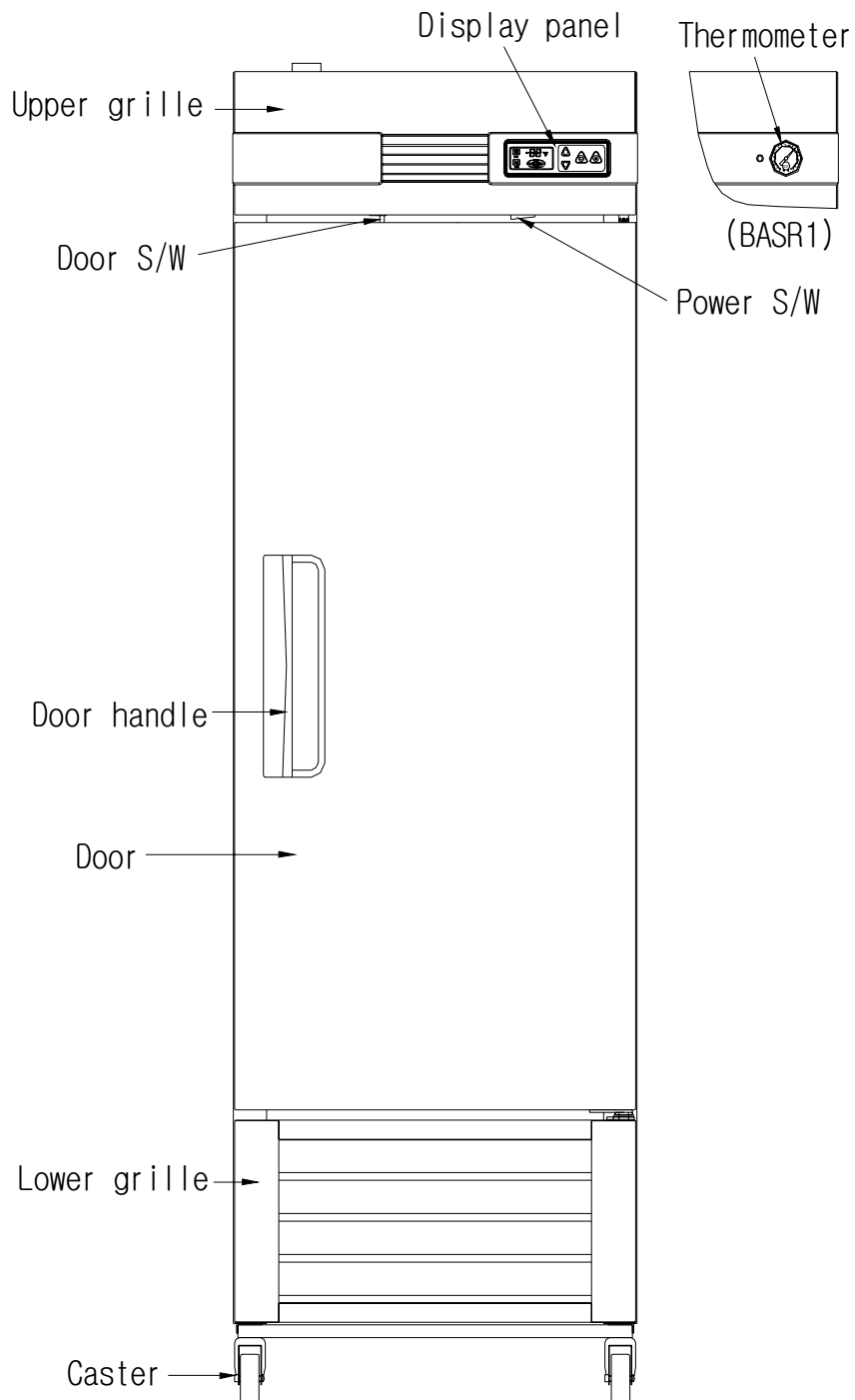


MODEL	COMPRESSOR
BASF1	CAE2420Z(A)
BASF2	CAJ2432Z(A)
BASF3	CAJ2446Z(H)
BASR1/BASR2	SK6A1C-H2Y
BASR3	CAJ4461Y(A)
BAGR72	CAJ4476Y(A)

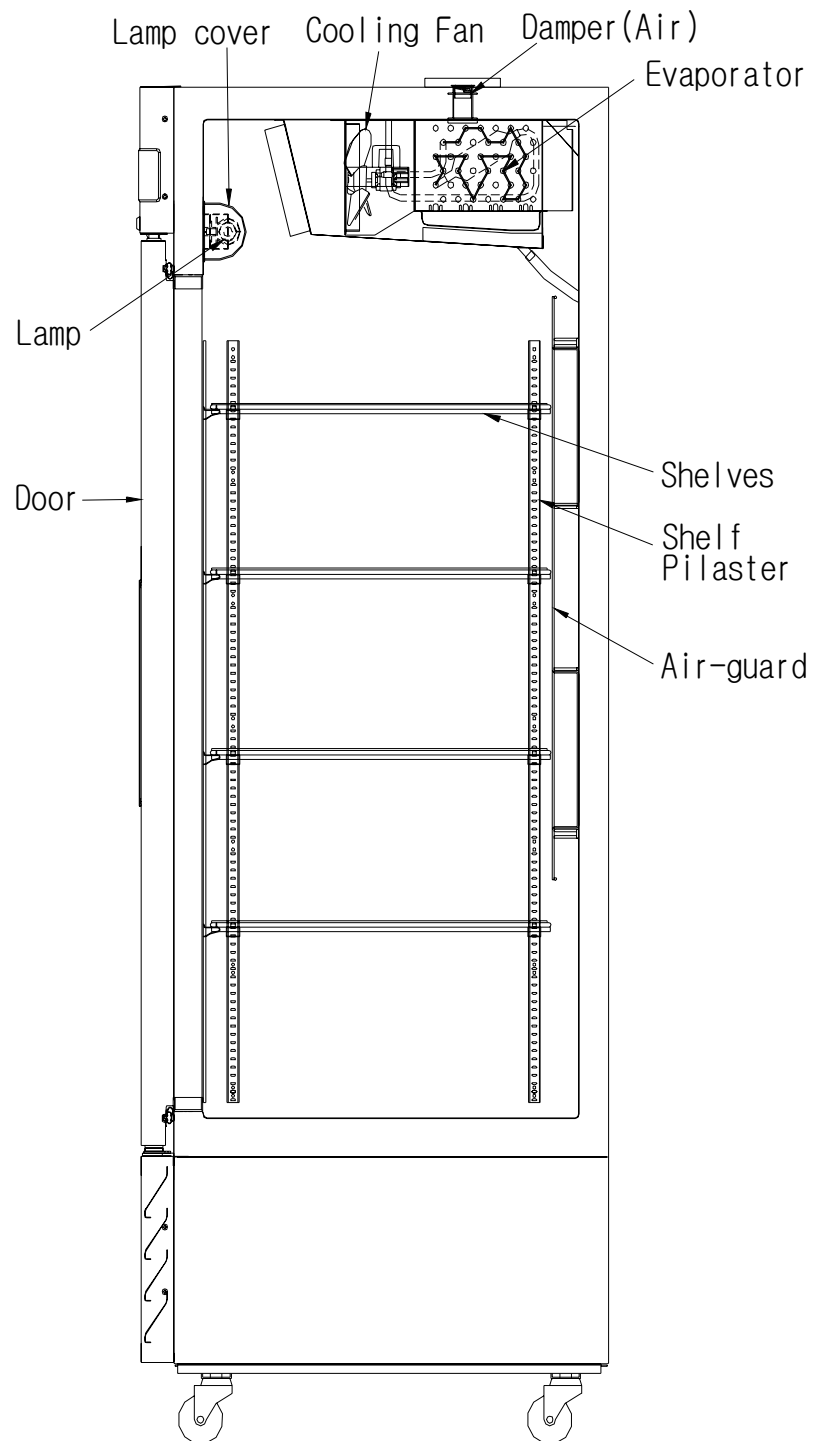
No.	Part Name	Description	Q'ty	Remark
1	COMPRESSOR		1	
2	CONDENSER	C1220TS-O,H	1	
3	EVAPORATOR	C1220TS-O,H	1	
4	DRIER	C1220T-H	1	
5	ACCUMULATOR	C1220T-1/4H	1	
6	DISCHARGE PIPE	C1220T-O	1	
7	DRIER CONNECT PIPE	C1220T-O	1	
8	CAPILLARY TUBE	C1220T-H	1	
9	SUCTION PIPE (INNER-CABINET)	C1220T-O	1	
10	SUCTION PIPE (COMPRESSOR)	C1220T-O	1	
11	CHARGE PIPE (COMPRESSOR)	C1220T-O	1	
12	CHARGE PIPE (DRIER)	C1220T-O	1	

3. FEATURE CHART

1) BASF1/BASR1 (1Door)

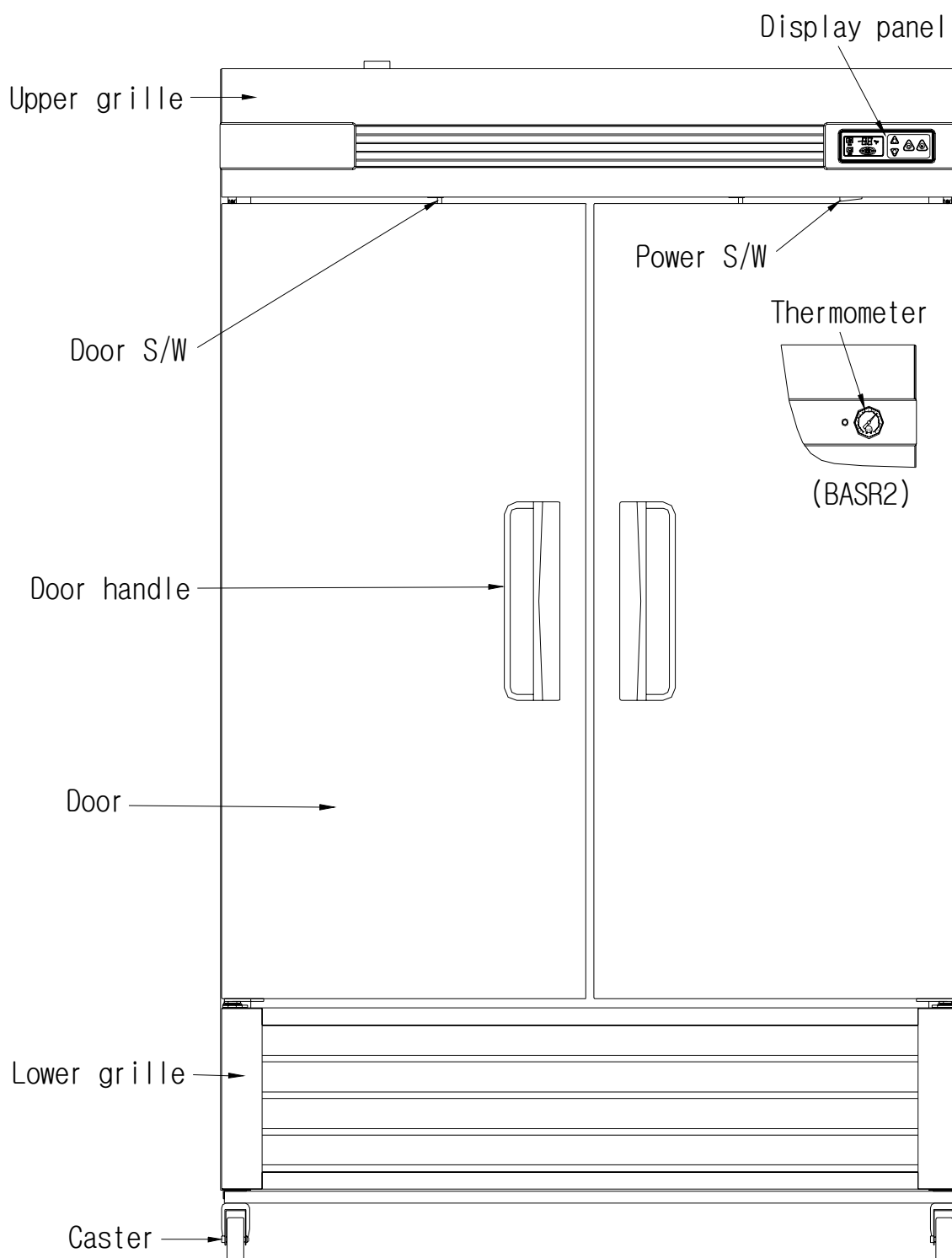


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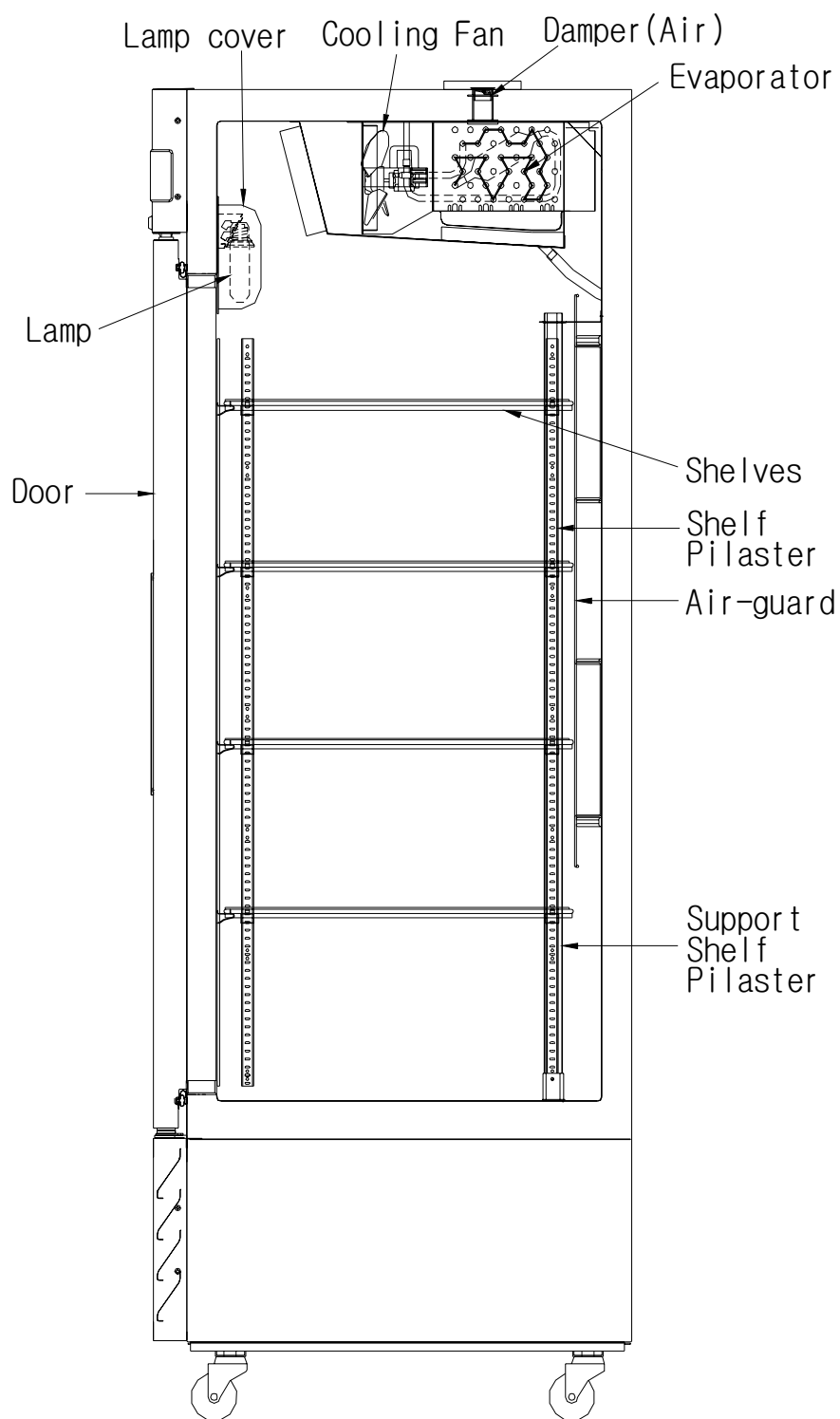


(SIDE)

2) BASF2/BASR2 (2Door)

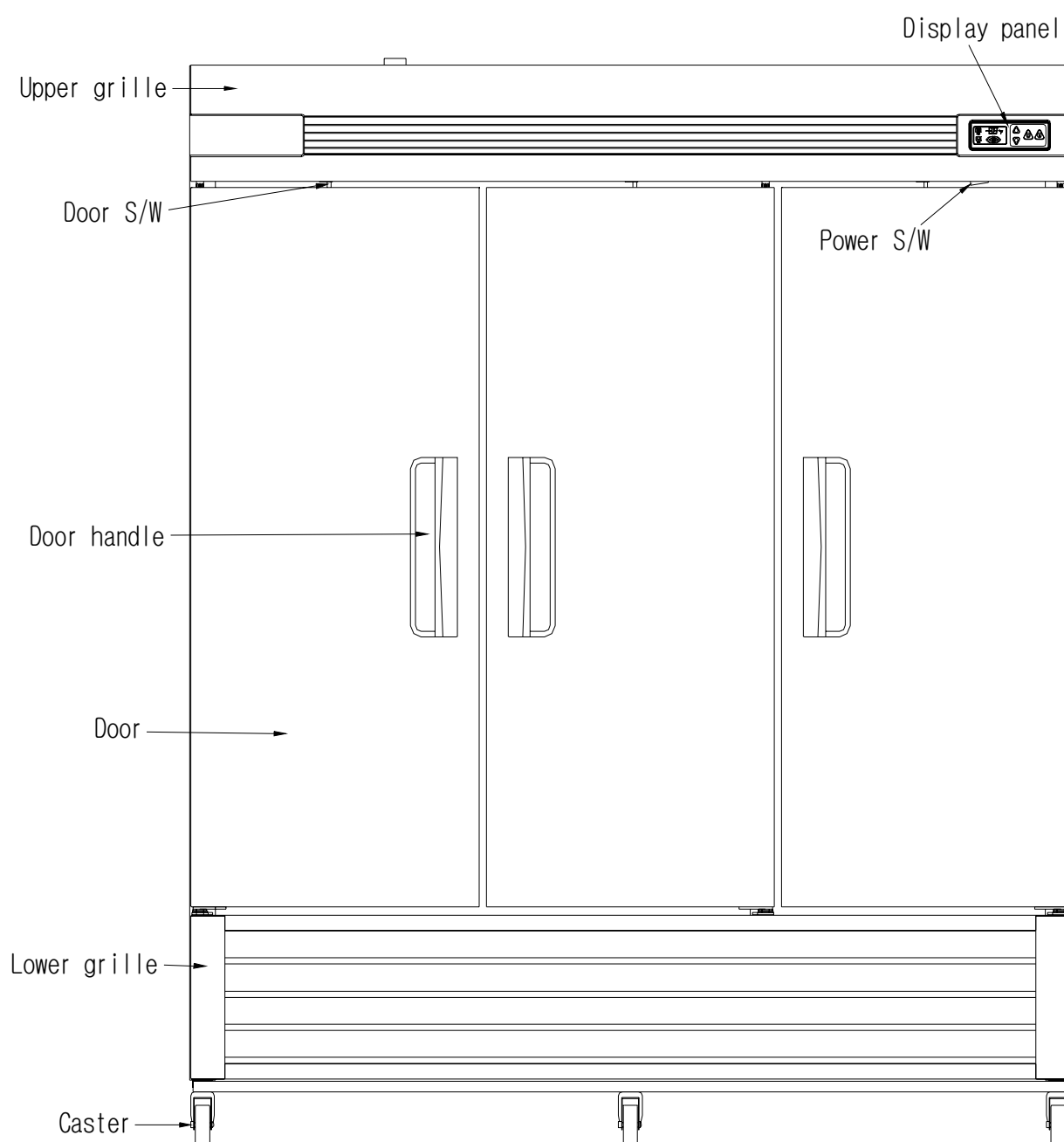


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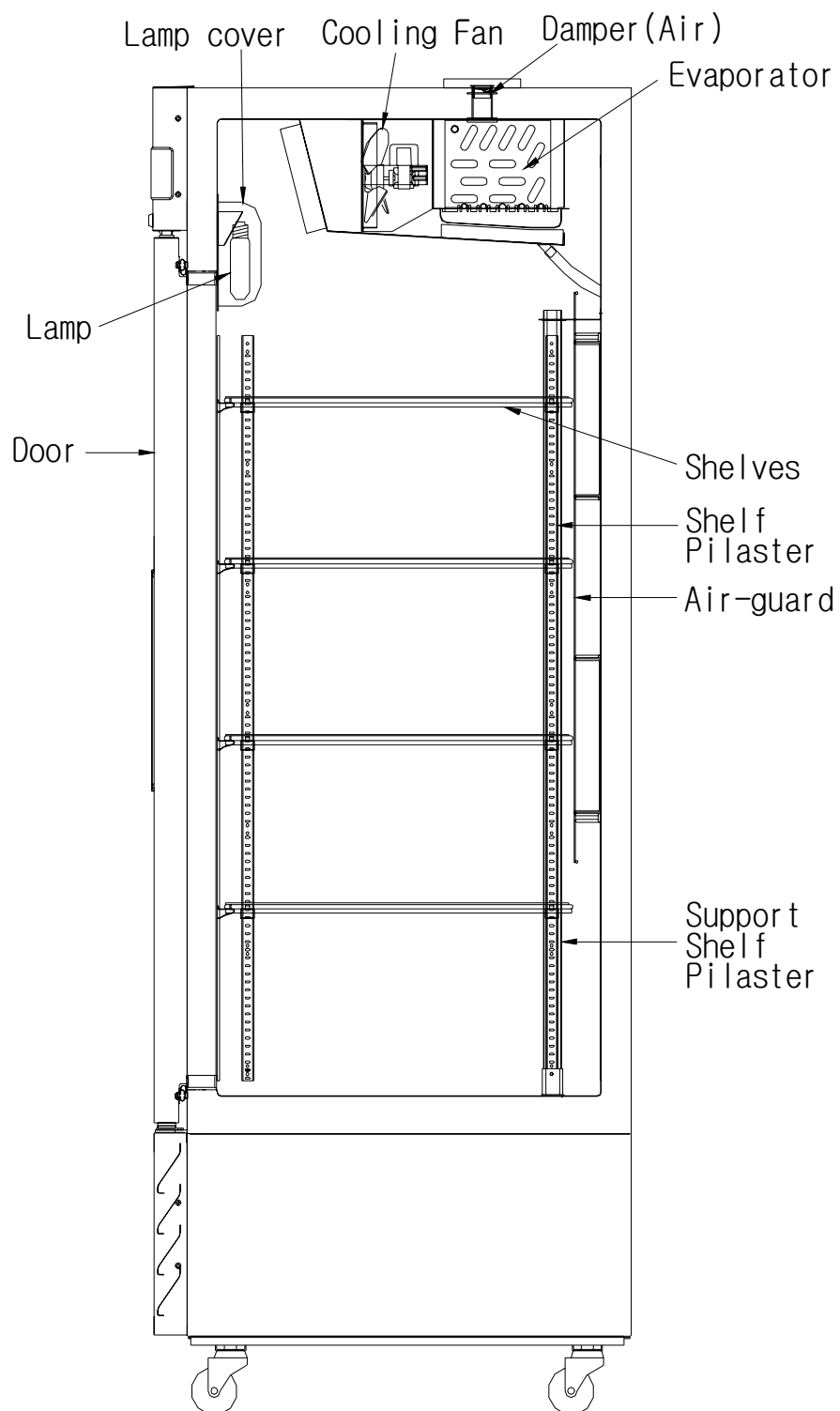


(SIDE)

3) BASF3/BASR3 (3Door)

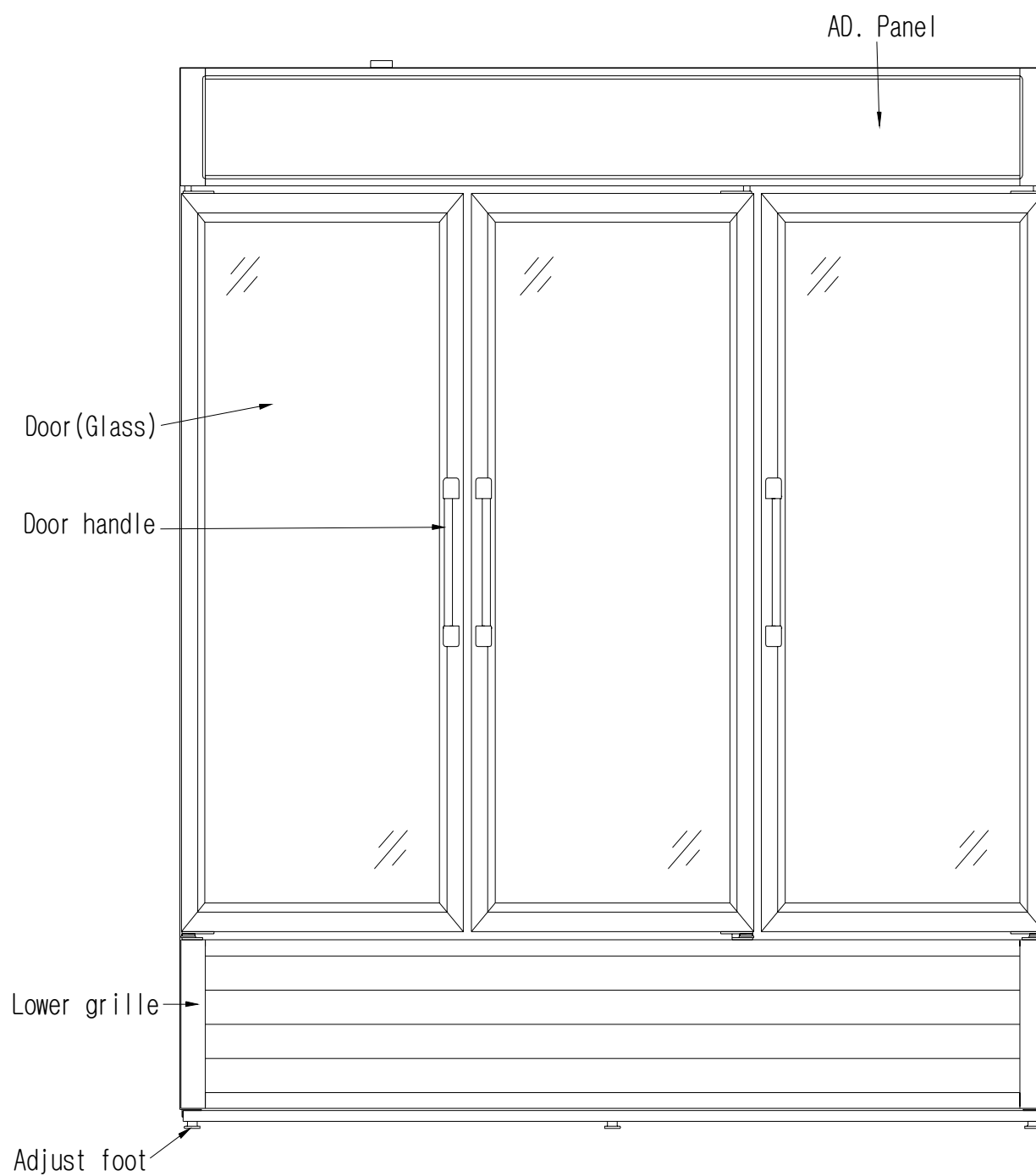


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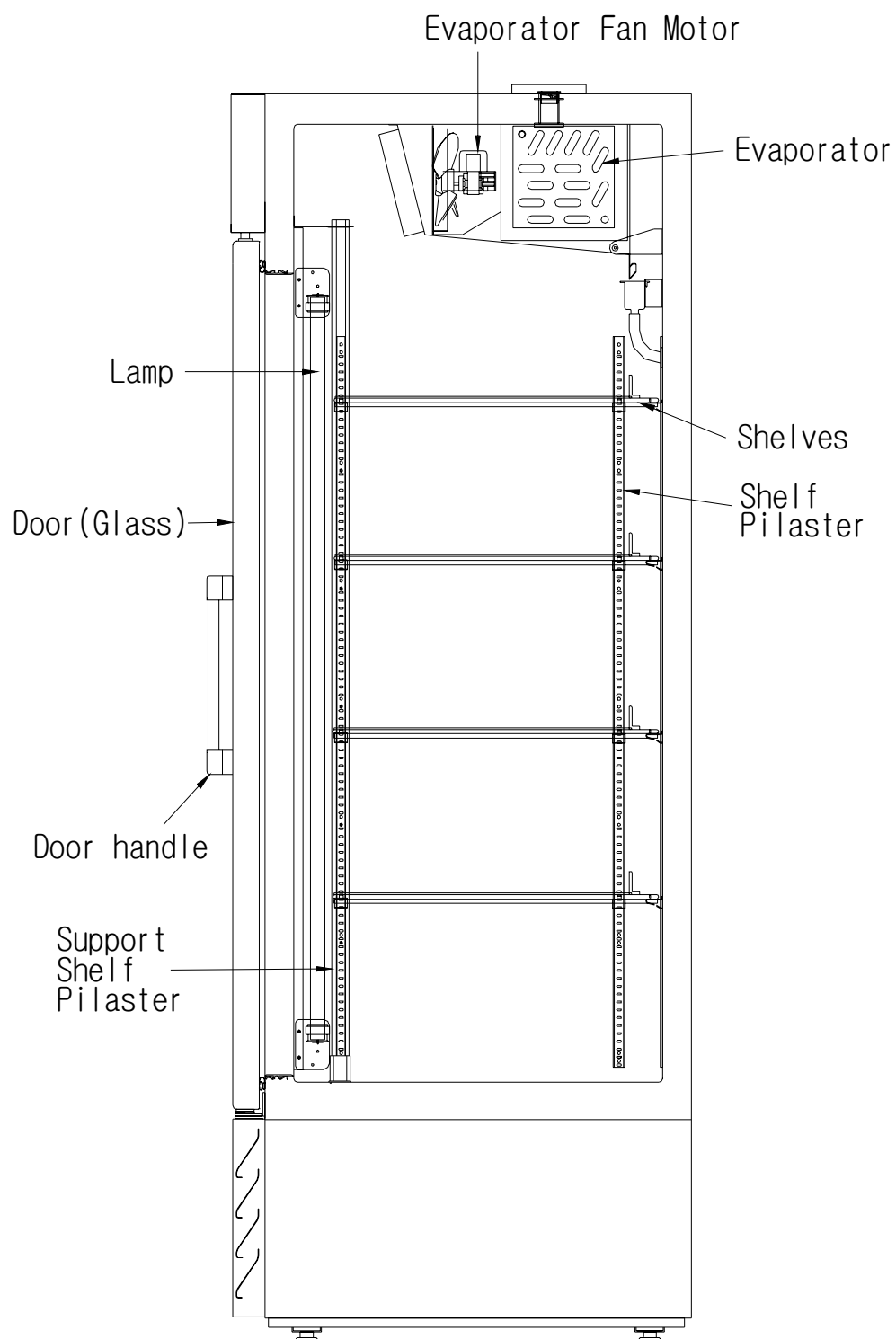


(SIDE)

4) BAGR72 (Glass 3Door)



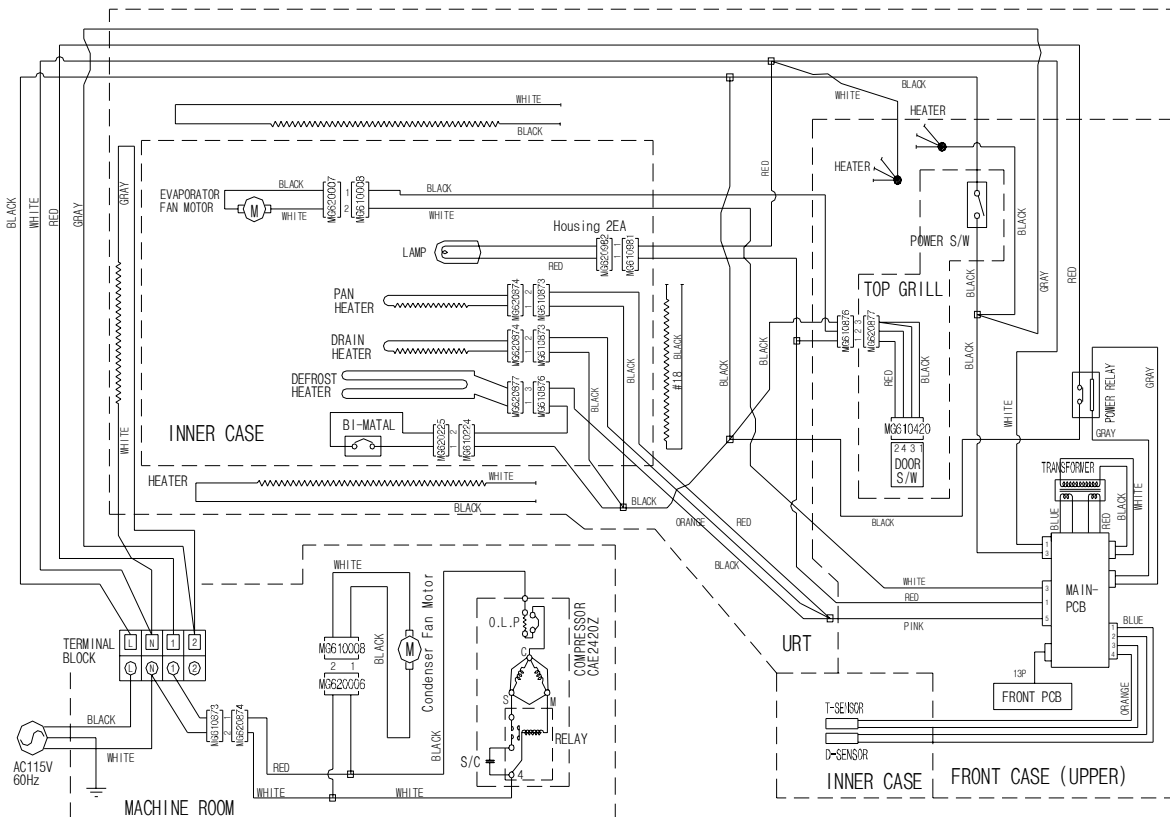
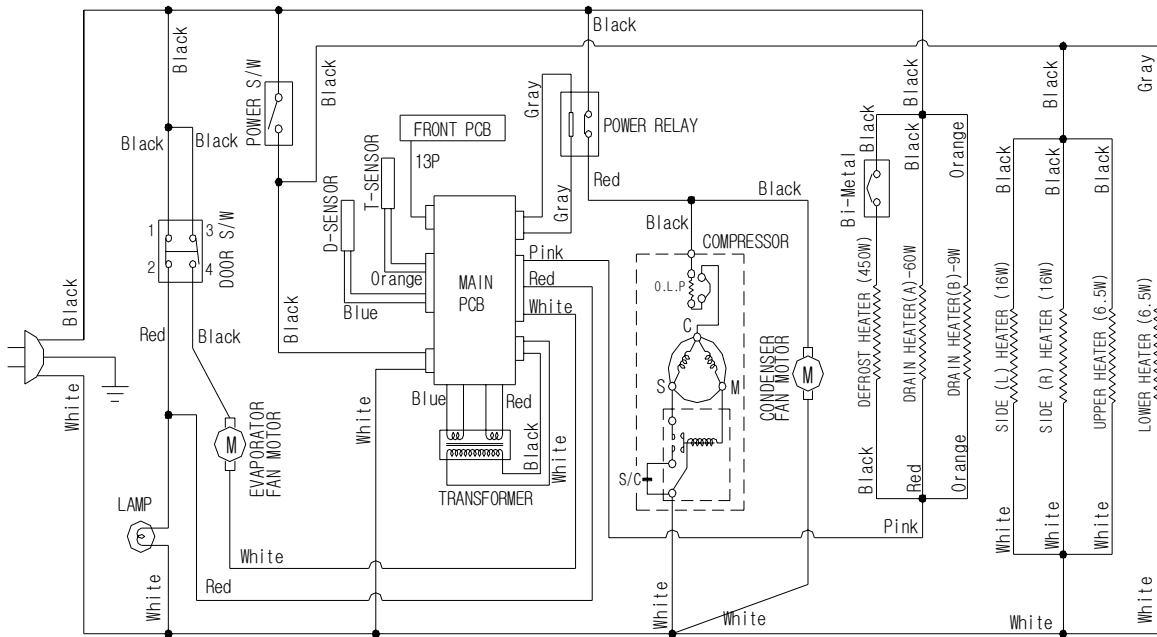
(FRONT)



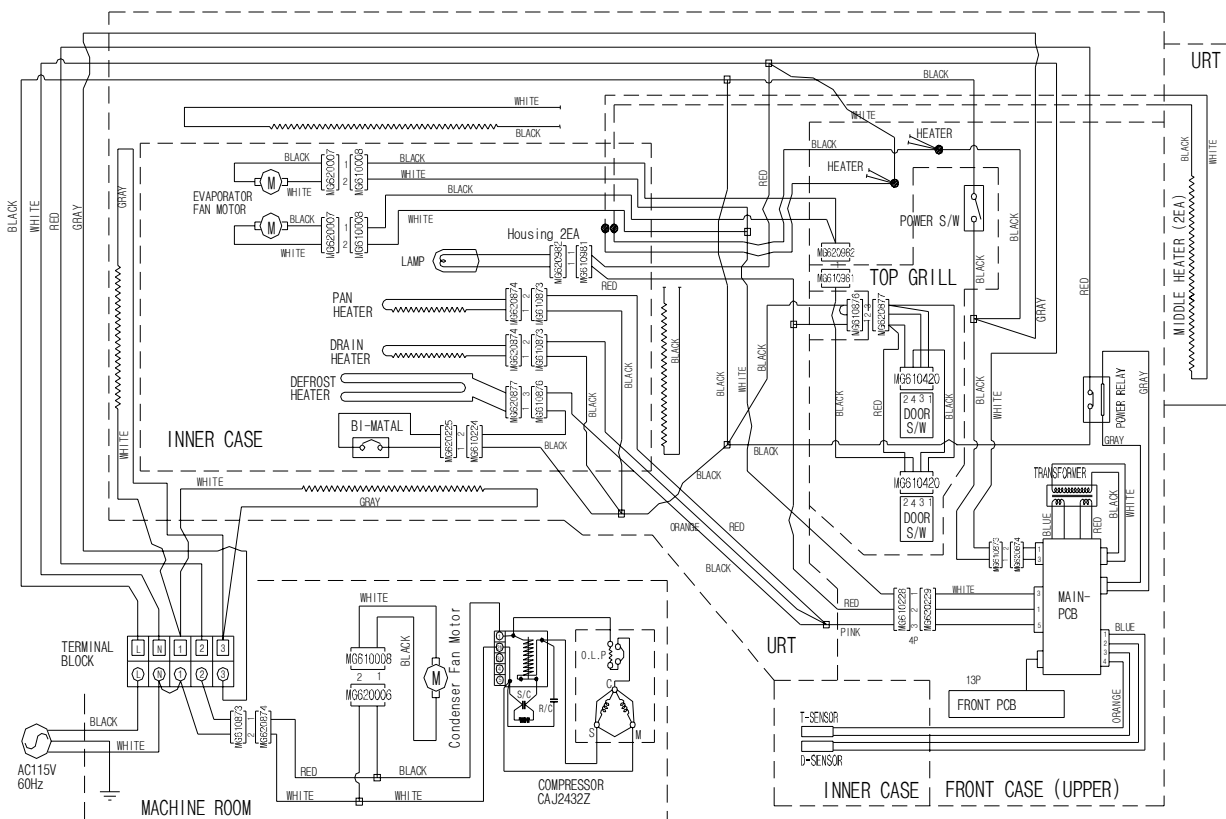
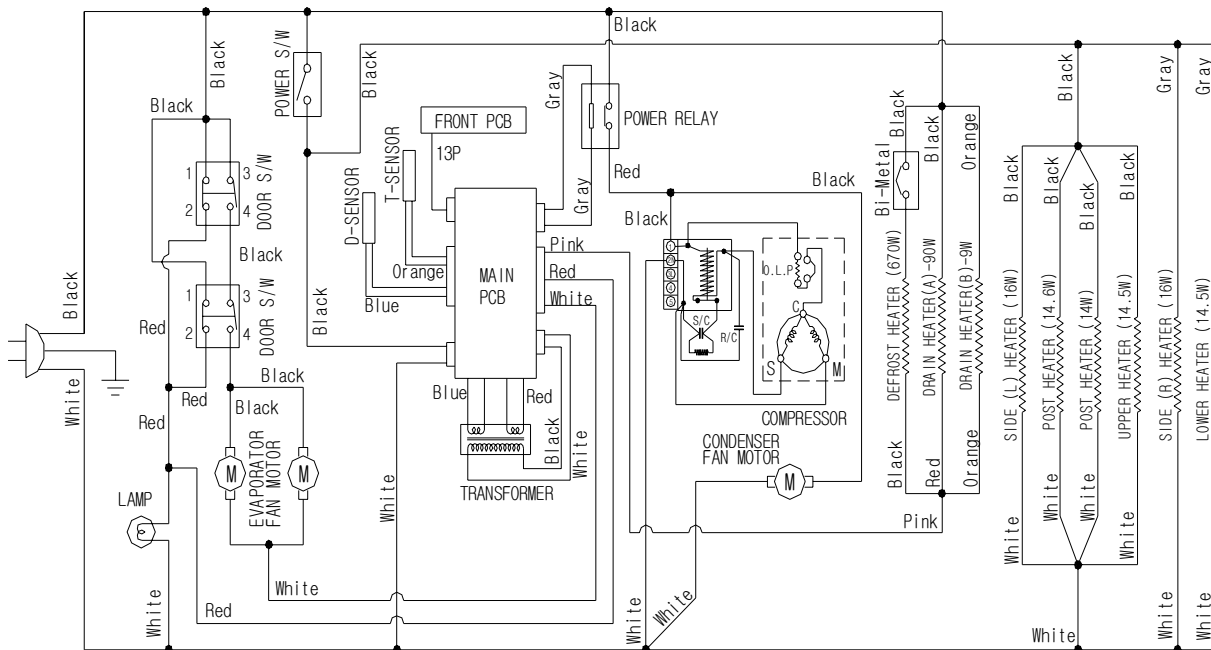
(SIDE)

4. WIRING DIAGRAMS

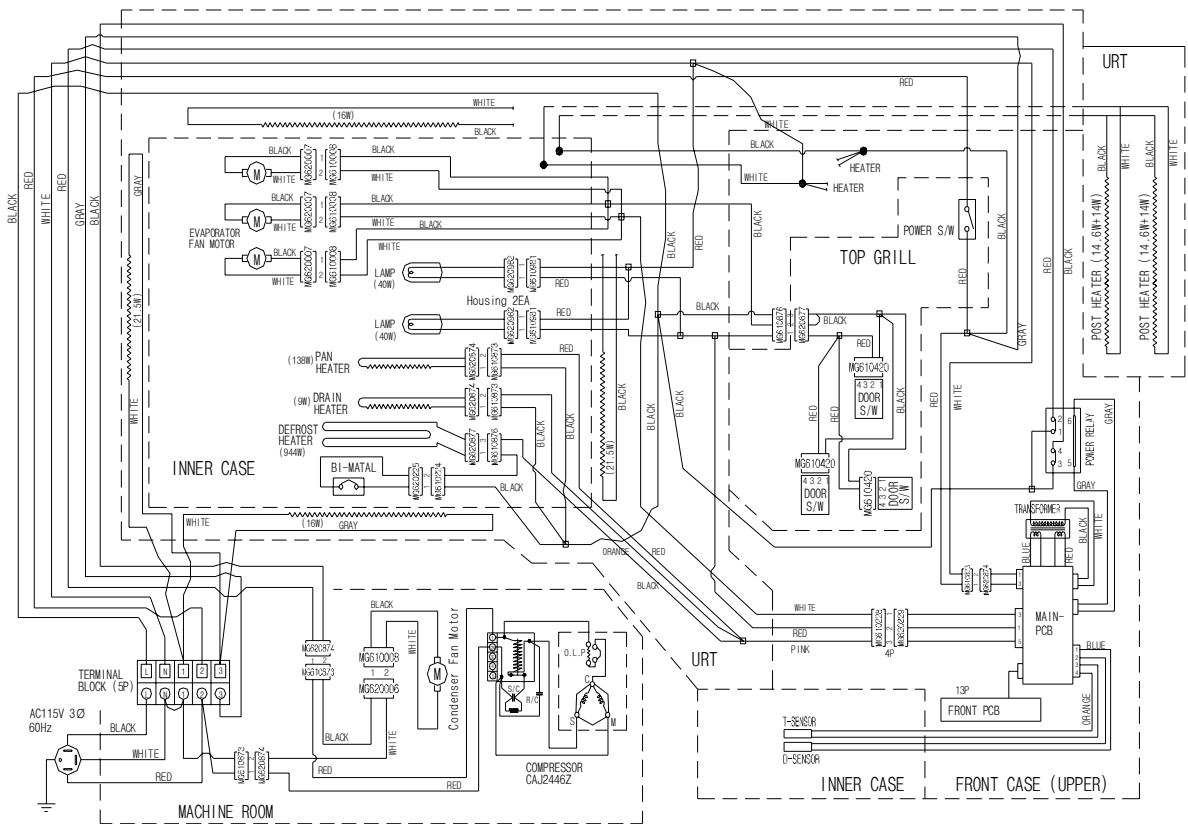
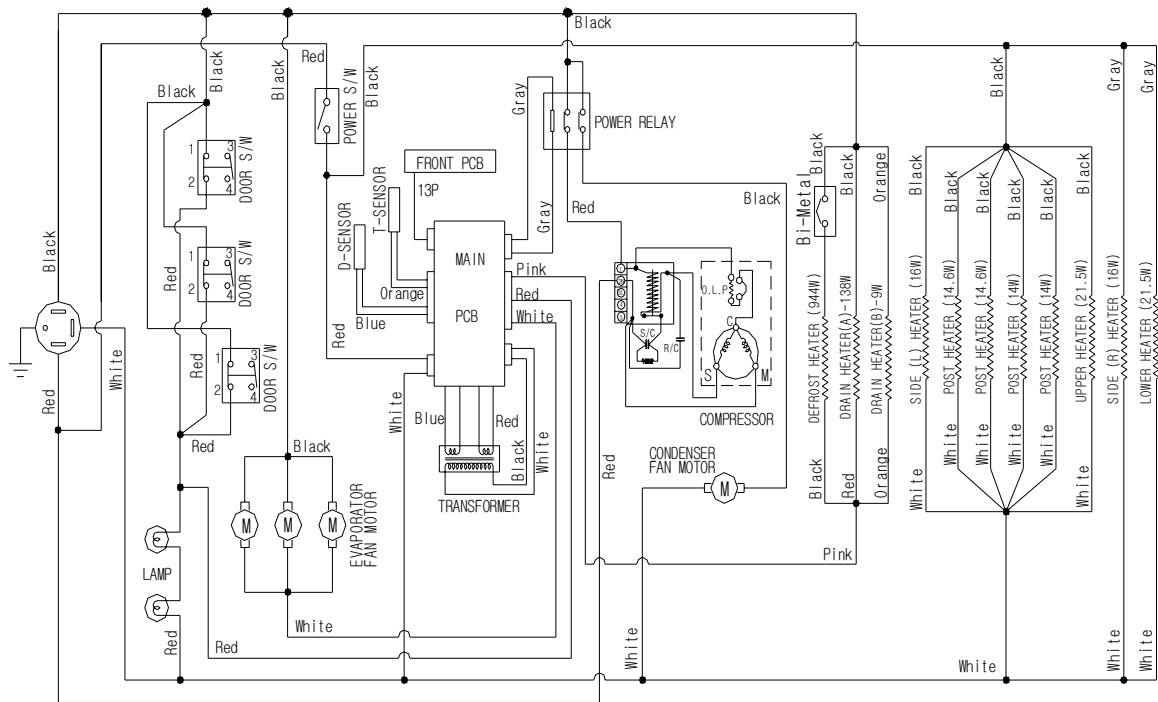
1) BASF1



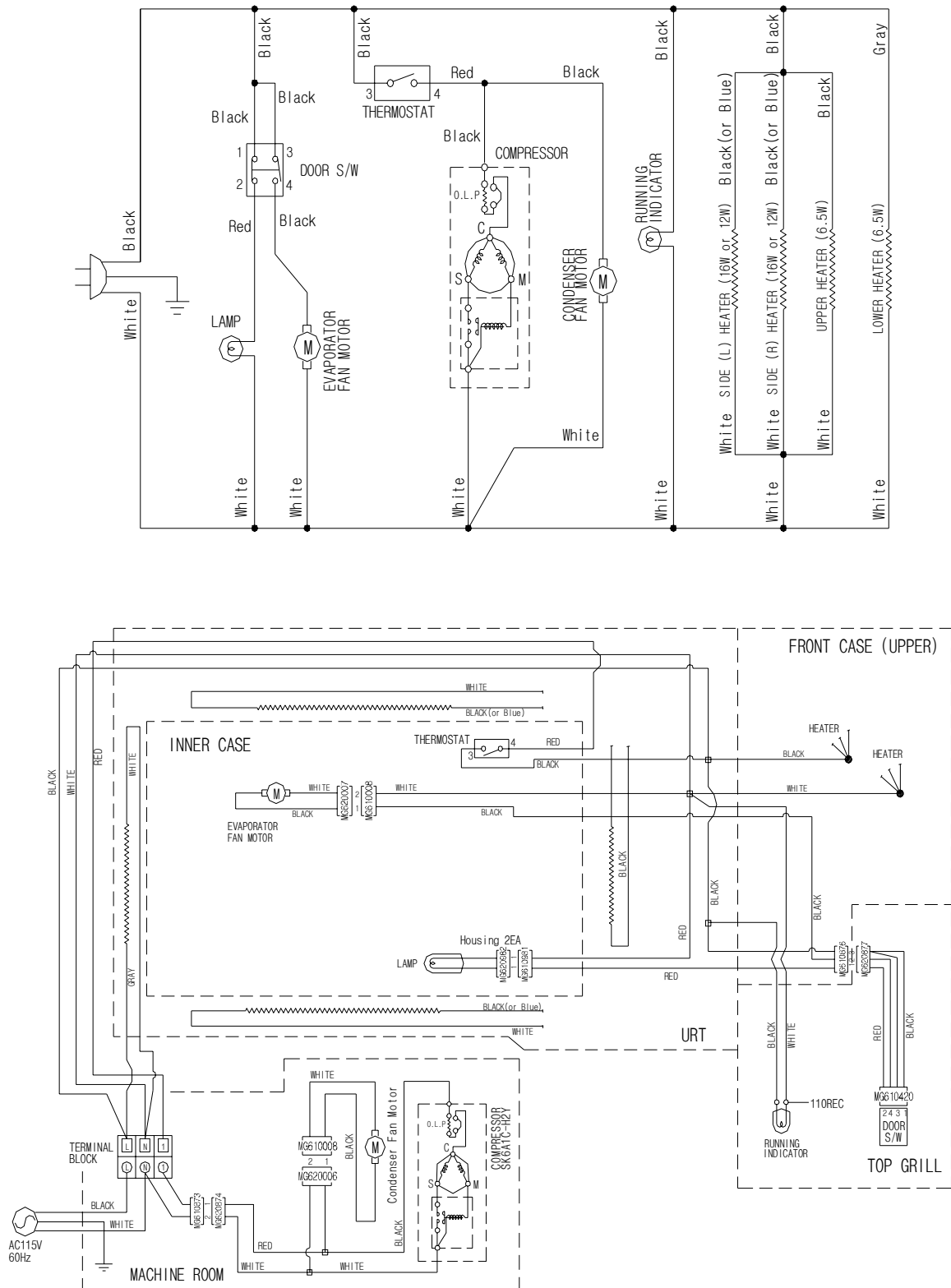
2) BASF2



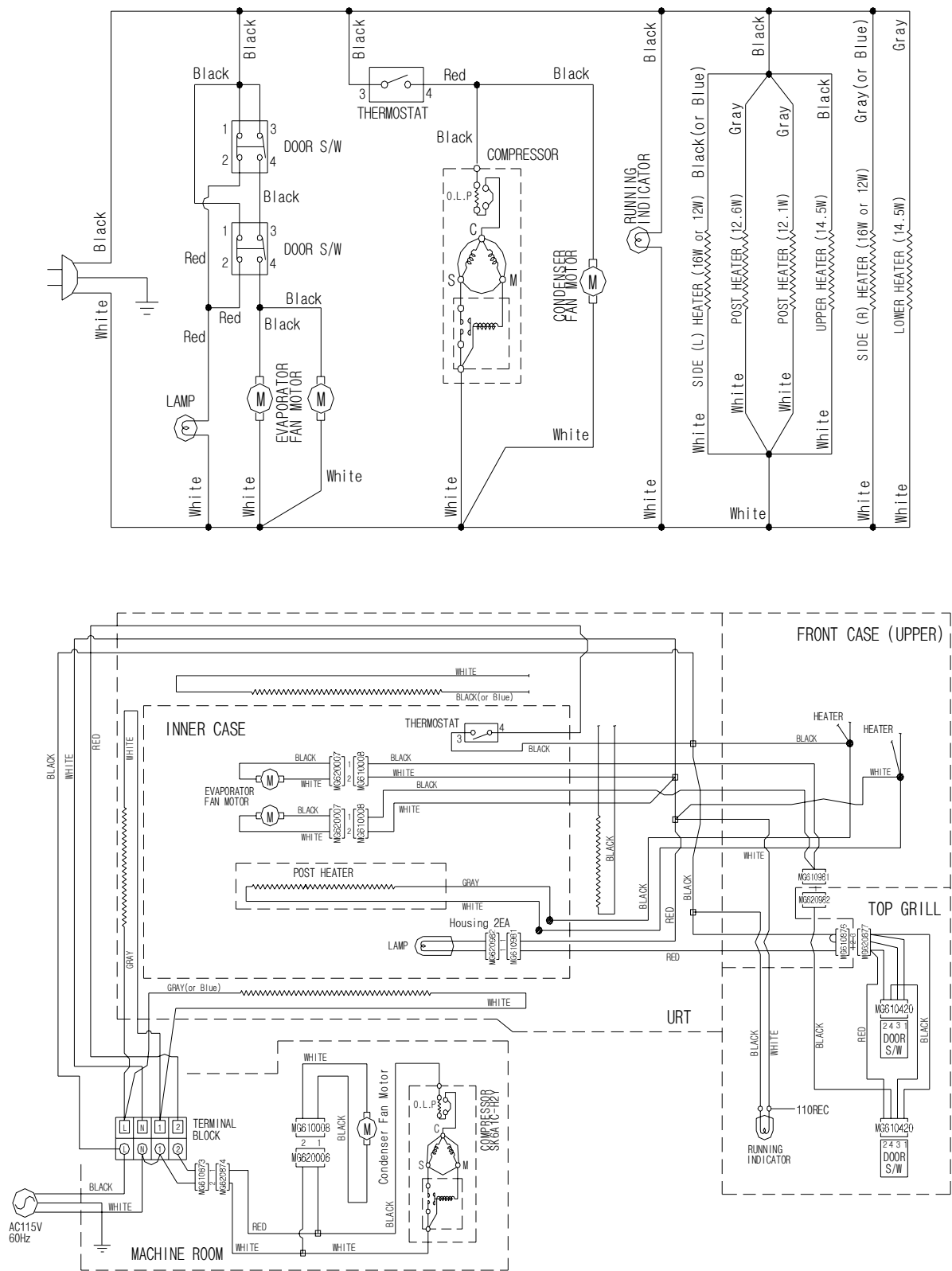
3) BASF3



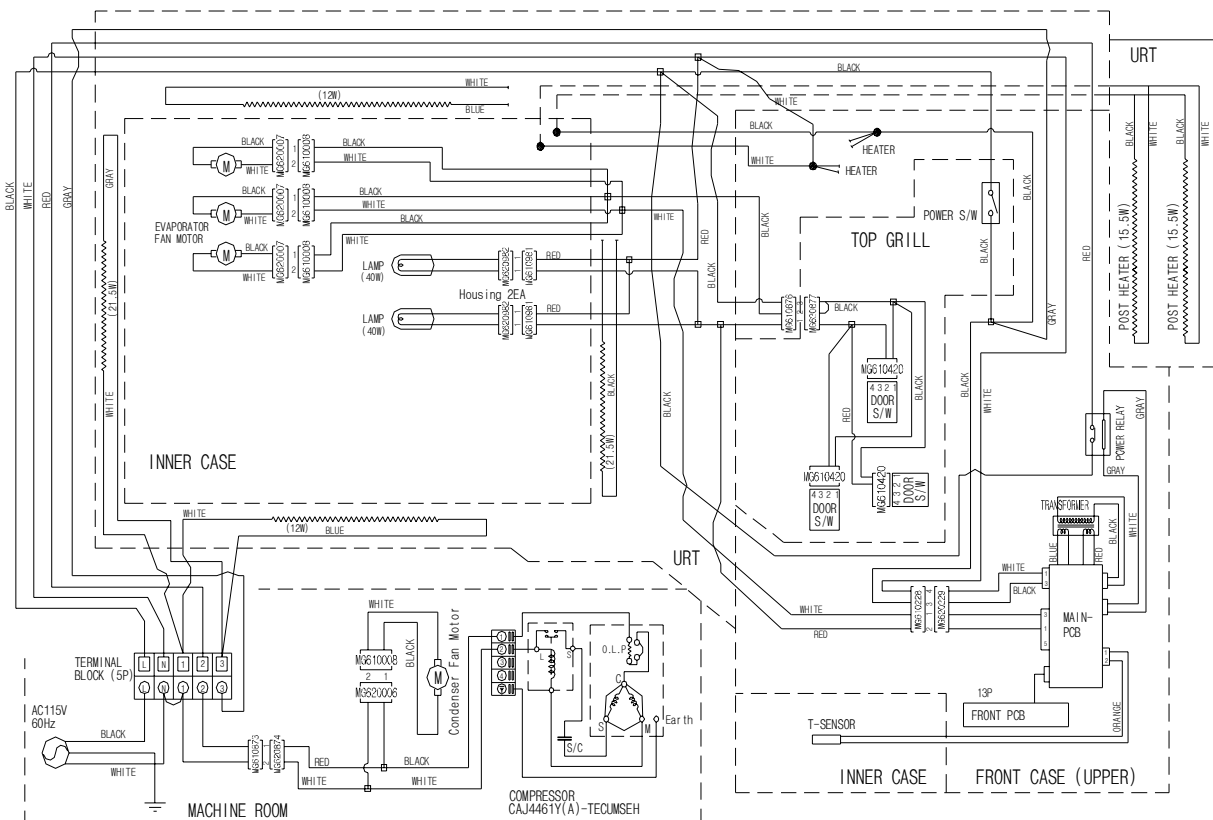
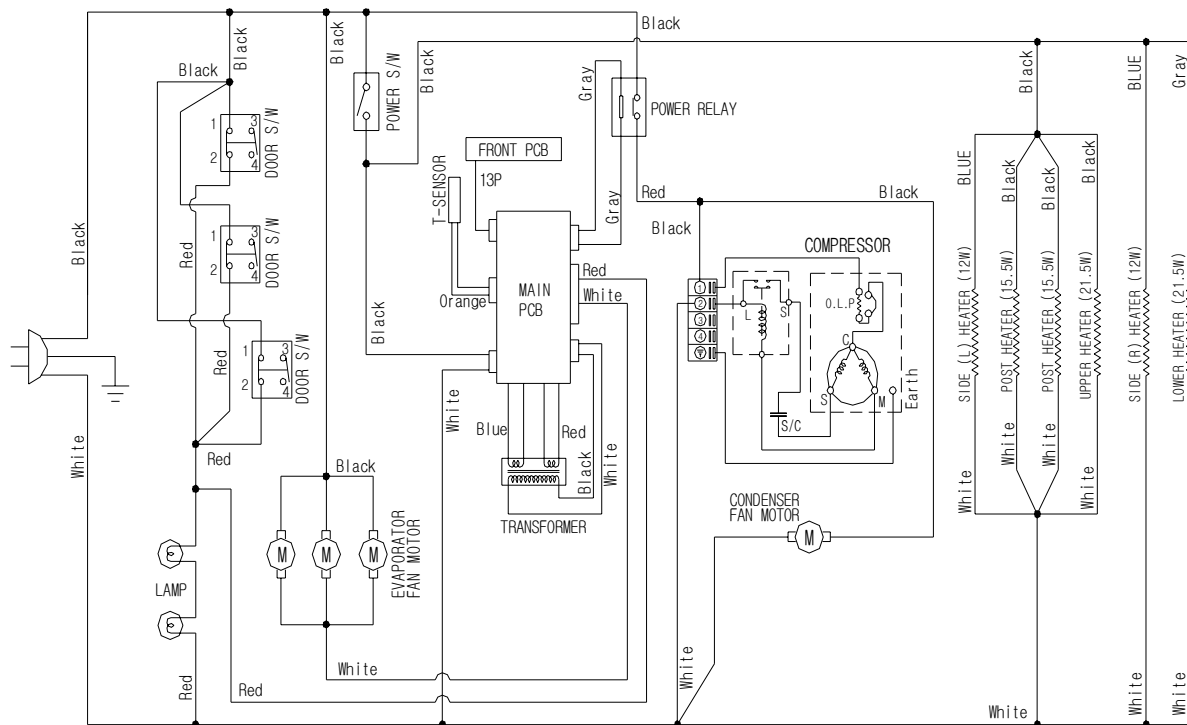
4) BASR1



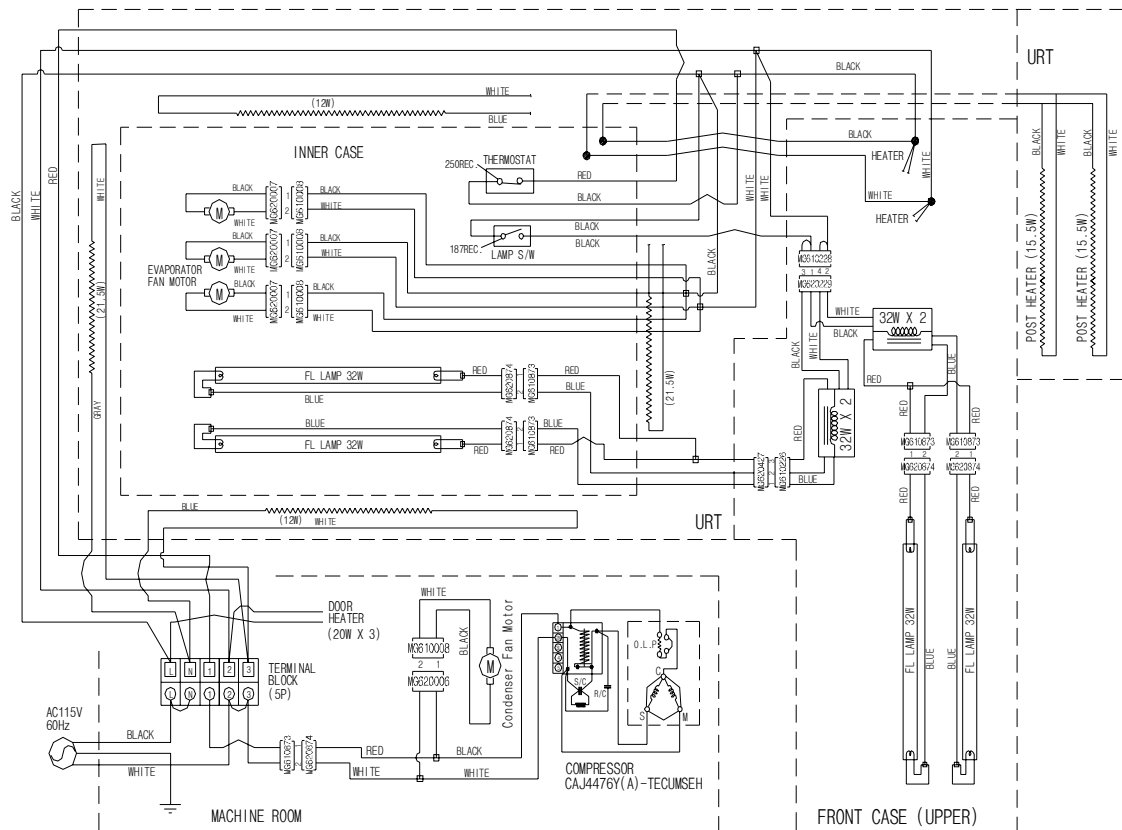
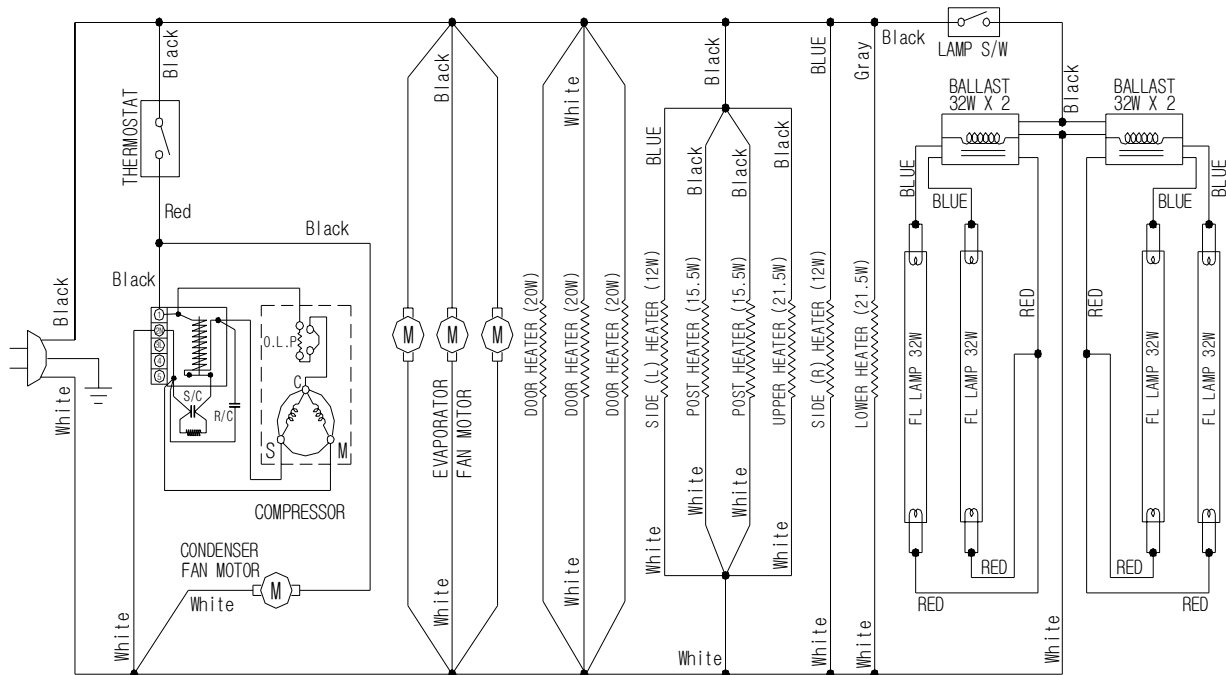
5) BASR2



6) BASR3

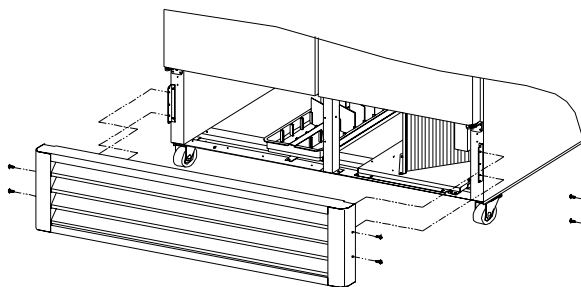


7) BAGR72

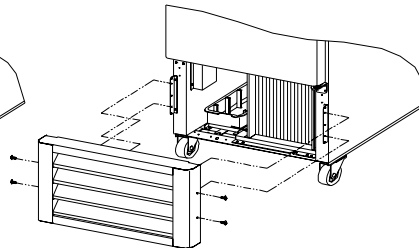


5. REPLACEMENT OF COMPONENTS

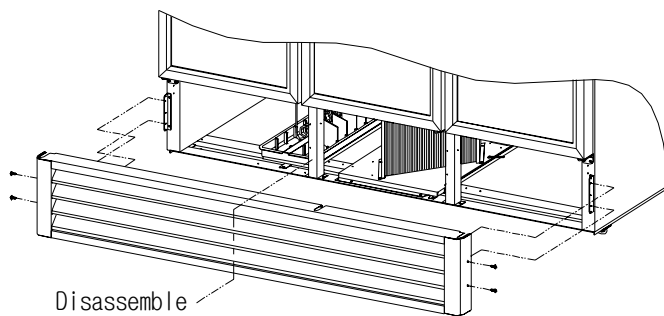
1) CONDENSING UNIT



(BASF2/BASF3/BASR2/BASR2)



(BASF1/BASR1)



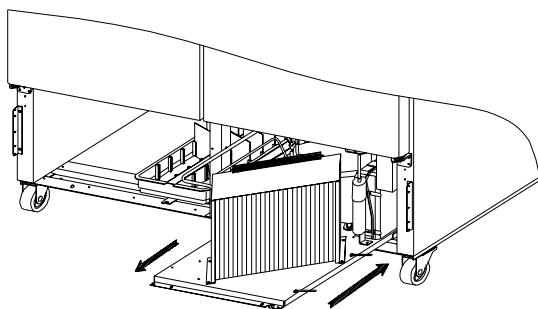
Disassemble

(BAGR72)

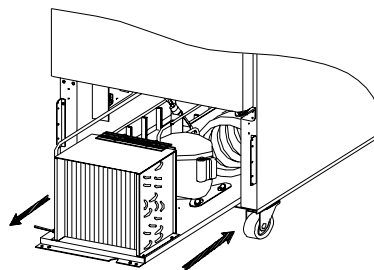
a) Unplug the power cord before service.

b) Remove screw securing the lower grille.

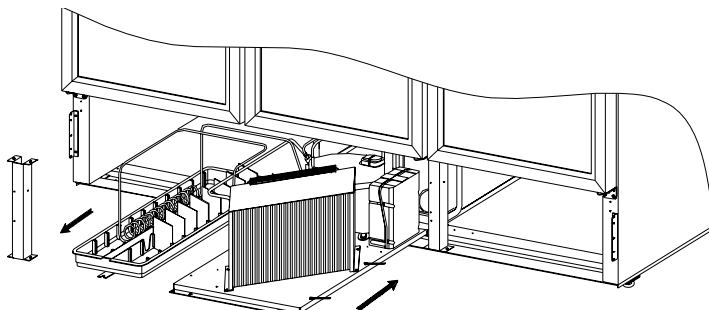
* Remove screw securing the reinforce angle.(BAGR72)



(BASF2/BASF3/BASR2/BASR2)



(BASF1/BASR1)



(BAGR72)

c) Separate the compressor harness out of the terminal block.

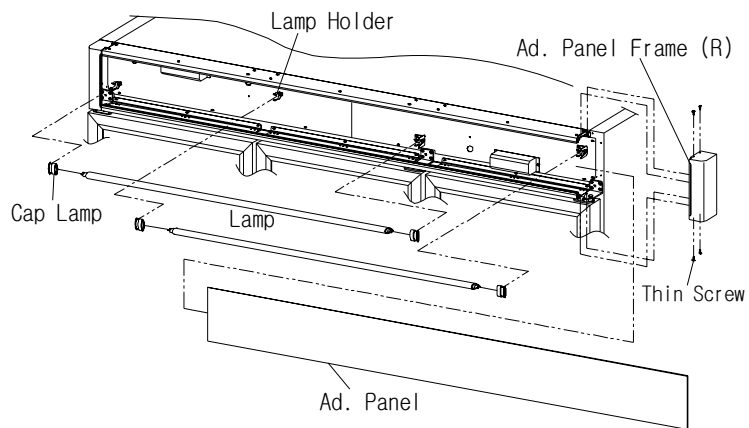
d) Remove screws securing the unit base plate and pull out condensing unit with care.

e) Replace the necessary component.

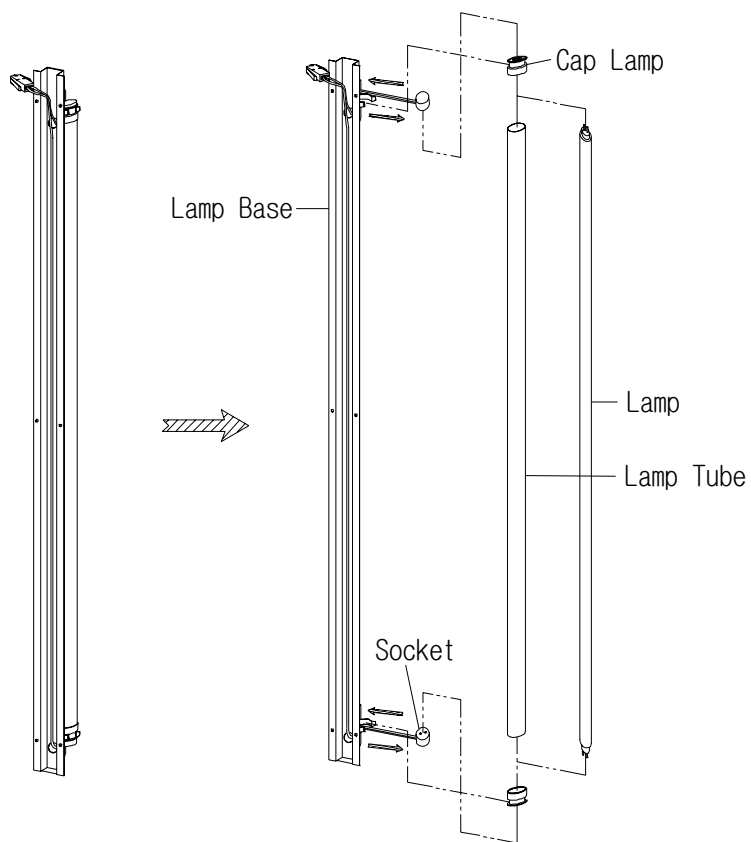
※ CAUTION

1. Please pull out or push in the unit base plate carefully to prevent capillary tube, pipes and wires from demaging.
2. It is recommend to arrange wires after you push in the unit base plate.

2) LAMP (BAGR72)



- a) Unplug the power cord before service.
- b) Remove screw securing the Ad. Panel Frame (R).
- c) Separate the Ad. Panel.
- d) Separate the Lamp from the Lamp Holder.
- e) Separate the Cap Lamp and replace the Lamp with care.



- a) Unplug the power cord before service.
- b) Separate the Lamp from the Lamp Holder.
- c) Separate the Lamp Socket and the Cap Lamp.
- d) Replace the Lamp with care.

♠ Lamp Description : AC115V, 32W, F32T8/TL860

■ MODEL : BASF1/BASF2/BASF3(FREEZER) BASR1/BASR2/BASR3(REFRIGERATOR)
BAGR72 (REACH-IN MERCHANDISERS)

B. OPERATION AND ELECTRONIC CONTROLLER FUNCTION

1. OPERATION FOR BASF1, BASF2, BASF3 MODELS - - - - - B3

1) BASIC OPERATION

2) ELECTRONIC CONTROLLER SETING MODE

3) NORMAL CONTROL PROCESS

4) ERROR CODE

2. OPERATION FOR BASR3 MODEL - - - - - B10

1) BASIC OPERATION

2) ELECTRONIC CONTROLLER SETING MODE

3) NORMAL CONTROL PROCESS

4) ERROR CODE

3. OPERATION FOR BASR1, BASR2, BAGR72 MODELS - - - - - B16

1) BASIC OPERATION

2) DEFROST

3) CONTROL TEMPERATURE

4) LAMP

4. INSTRUCTION FOR RE-HINGING DOOR - - - - - B17

1. OPERATION FOR BASF1, BASF2, BASF3 MODELS

1) BASIC OPERATION

- ① Plug in the power cord and turn on the power switch located on the bottom of the top grille right side.

[The unit should be plugged into a **115V±10%, 60Hz** (BASF1, BASF2 models)]

[The unit should be plugged into a **115V/208~230V, 60Hz** (BASF3 model)]

- ② Display panel will be lightened for 2 seconds with buzzer then displays cabinet interior temperature (T-sensor) and running conditions.

If cabinet interior temperature is higher than 14°F (BASF1, BASF2, BASF3 models), compressor will run without delay, and lower than 14°F (BASF1, BASF2, BASF3 models), compressor will run after 3 minutes.

- ③ The default OPERATING TEMPERATURE SETTING

BASF1, BASF2, BASF3 : Temperature set point (setting mode sign [st]) is -9°F

Temperature differential set point (setting mode sign [di]) is 10°F.

(Operating Temperature : -14°F ~ -4°F)

Range of adjustable set point: -22°F ~ 8°F

- ④ Defrost frequency is controlled by MICOM and the default defrost frequency is 6 hours.

- ⑤ The light inside the cabinet comes on when the door is opened.

The cabinet interior cooling fan has 3 seconds delay when the door is closed.

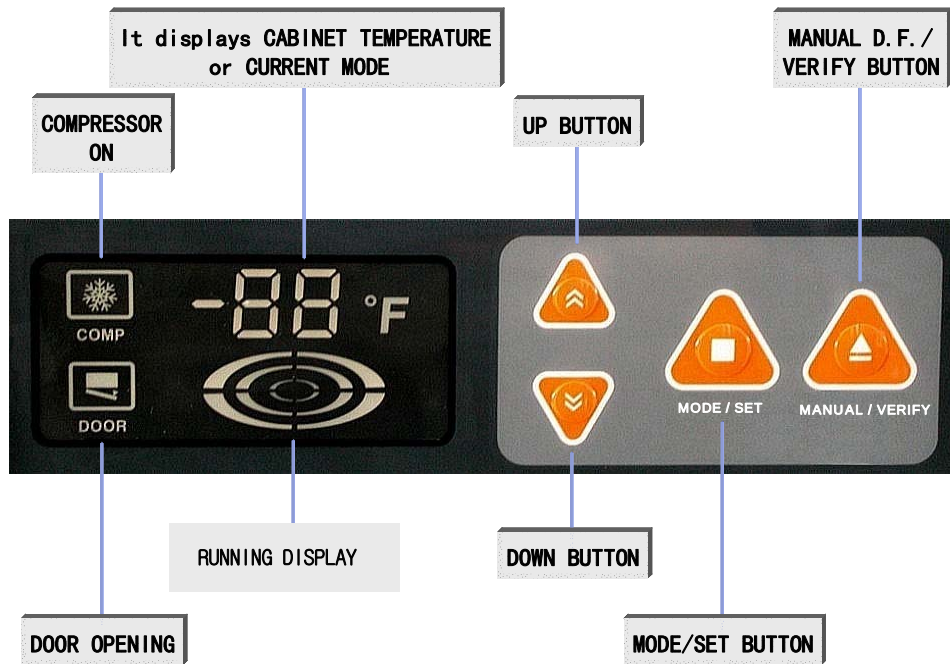
- ⑥ If door is opened, door open warnign sign (LED) will turn on.

If door is opened more than 30 seconds, the sound alarm beeps 3times,

if open more than 60 seconds, the sound alarm beeps 5 times and if open more than 5 minutes, the sound alarm will beep continuously.

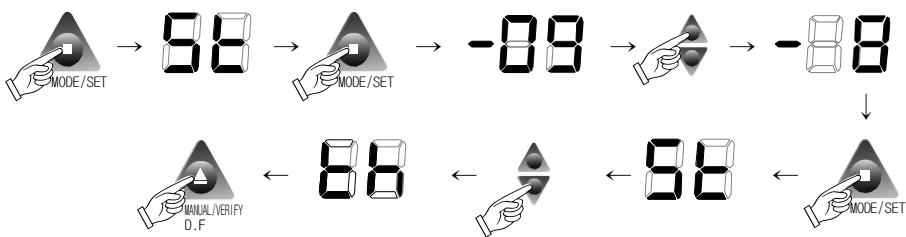
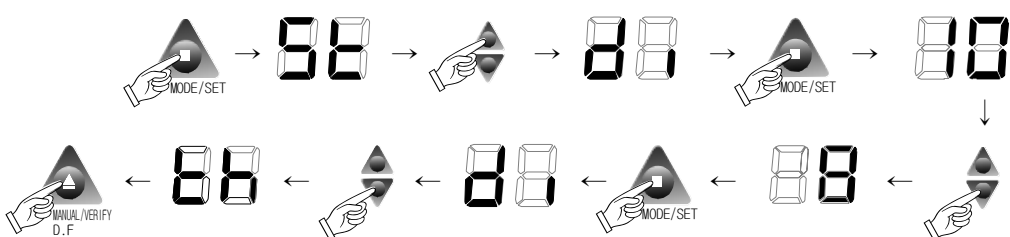
- ⑦ If cabinet interior temperature is higher than 14°F (BASF1, BASF2, BASF3), the panel displays [Hi] and lower than -50°F (BASF1, BASF2, BASF3), the panel displays [Lo].

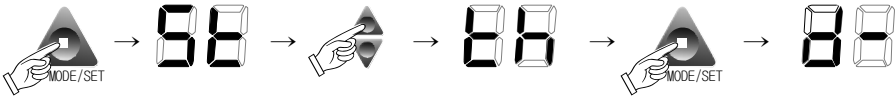
2) ELECTRONIC CONTROLLER SETTING MODE



Setting Mode Sign	Setting Mode
St	Temperature Setting Mode
di	Temperature Differential Setting Mode
dt	Defrost Frequency Setting Mode
dF	Forced Defrost Mode
tb	Turbo Freeze Mode
th	Cabinet Temperature Verification Mode

No	Setting Mode	Mode Sign	How to Setting (FREEZER)
1	Temperature Setting Mode	"St"	- To enter this mode, press [MODE/SET] and [UP or DOWN] simultaneously until [St] is displayed. - Then press [MODE/SET] to see current temperature set point. - To change the set point, press [UP or DOWN] until the desired value is displayed.

No	Setting Mode	Mode Sign	How to Setting (FREEZER)
1	Temperature Setting Mode	"St"	4. At the end of the sequence, press [MODE/SET] to set the value. 5. To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].  6. Range of adjustable set point : -22°F to 8°F
2	Temperature Differential Setting Mode	"di"	1. To enter this mode, press [MODE/SET] and [UP or DOWN] simultaneously until [di] is displayed. 2. Then press [MODE/SET] to see current temperature differential. 3. To change the set point, press [UP or DOWN] until the desired value is displayed. 4. At the end of the sequence, press [MODE/SET] to set the value. 5. To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].  6. Range of adjustable set point : 4°F to 16°F (The Unit of Setting : 2°F)
3	Defrost Frequency Setting Mode	"dt"	1. To enter this mode, press [MODE/SET] and [UP or DOWN] simultaneously until [dt] is displayed. 2. Then press [MODE/SET] to see current defrost frequency. 3. To change the defrost frequency, press [UP or DOWN] until the desired value is displayed. 4. At the end of the sequence, press [MODE/SET] to set the value. 5. To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].

No	Setting Mode	Mode Sign	How to Setting (FREEZER)
8	Cabinet Temperature Verification Mode	"th"	 3. To check only the F-sensor or D-sensor temperature, press [MODE/SET] again.  4. Press [VERIFY] to see current cabinet temperature. (return to normal display mode) 

3) NORMAL CONTROL PROCESS

No	FUNCTION	FUNCTION SPEC (FREEZER)
1	Initial Operating	- After Power ON, Display panel will be lightened for 2 seconds with buzzer then displays cabinet interior temperature. - If cabinet interior temperature is higher than 14°F, compressor will run without delay, and lower than 14°F, compressor will run after 3 minutes.
2	Normal Operating	- Compressor and condenser fan motor is controlled by T-sensor and MICOM program. displays cabinet interior temperature. - Compressor ON/OFF Temperature Compressor ON : Temperature Setting Value + (Temperature Differential Setting Value/2) Compressor OFF : Temperature Setting Value - (Temperature Differential Setting Value/2) ex) st: -9°F, di: 10°F ⇒ Compressoer ON: -9+(10/2) = -4°F, Compressoer OFF: -9-(10/2) = -14°F
3	Turbo Freeze	- Compressor and cabinet interior cooling fan is running continuously for 120 minutes without control by sensor. - It is impossible to set the other modes during Turbo Freeze Mode. It is necessary to cancel the Turbo Freeze Mode before setting the other modes. - If Defrost Mode become in the Turbo Freeze Mode duration, Defrost Mode will start after the Turbo Freeze Mode finished. - Turbo Freeze Mode will be start after Defrost Mode finished not during Defrost Mode. [tb] is displayed from startng the Turbo Freeze Mode.

No	FUNCTION	FUNCTION SPEC (FREEZER)															
4	Defrost	1. Defrost process is like below <table border="1"> <thead> <tr> <th>Process</th><th>Controlled Part</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Pre-Cool</td><td>Compressor On Evaporator Fan On Condenser Fan On Defrost Heater Off</td><td> ① It prevent exceed temperature rise during defrosting, ② Cycle is run continuously until current compressor cut-out temperature reach. ③ Maximum time: 30minutes </td></tr> <tr> <td>Defrost</td><td>Compressor Off Evaporator Fan Off Condenser Fan Off Defrost Heater On</td><td> ① Preprogrammed frequency interval ② If D-sensor is higher than 50°F, defrost heater off ③ Maximum time: 40minutes </td></tr> <tr> <td>Pause</td><td>Compressor Off Evaporator Fan Off Condenser Fan Off Defrost Heater Off</td><td>① Time: 5minutes</td></tr> <tr> <td>Evaporator Fan Delay</td><td>Compressor On Evaporator Fan Off Condenser Fan On Defrost Heater Off</td><td> ① If D-sensor is lower than -4°F, Fan delay terminated ② Maximum time: 10minutes </td></tr> </tbody> </table>	Process	Controlled Part	Description	Pre-Cool	Compressor On Evaporator Fan On Condenser Fan On Defrost Heater Off	① It prevent exceed temperature rise during defrosting, ② Cycle is run continuously until current compressor cut-out temperature reach. ③ Maximum time: 30minutes	Defrost	Compressor Off Evaporator Fan Off Condenser Fan Off Defrost Heater On	① Preprogrammed frequency interval ② If D-sensor is higher than 50°F, defrost heater off ③ Maximum time: 40minutes	Pause	Compressor Off Evaporator Fan Off Condenser Fan Off Defrost Heater Off	① Time: 5minutes	Evaporator Fan Delay	Compressor On Evaporator Fan Off Condenser Fan On Defrost Heater Off	① If D-sensor is lower than -4°F, Fan delay terminated ② Maximum time: 10minutes
Process	Controlled Part	Description															
Pre-Cool	Compressor On Evaporator Fan On Condenser Fan On Defrost Heater Off	① It prevent exceed temperature rise during defrosting, ② Cycle is run continuously until current compressor cut-out temperature reach. ③ Maximum time: 30minutes															
Defrost	Compressor Off Evaporator Fan Off Condenser Fan Off Defrost Heater On	① Preprogrammed frequency interval ② If D-sensor is higher than 50°F, defrost heater off ③ Maximum time: 40minutes															
Pause	Compressor Off Evaporator Fan Off Condenser Fan Off Defrost Heater Off	① Time: 5minutes															
Evaporator Fan Delay	Compressor On Evaporator Fan Off Condenser Fan On Defrost Heater Off	① If D-sensor is lower than -4°F, Fan delay terminated ② Maximum time: 10minutes															
5	Default Setting	1. Temperature Setting : -9°F, Temperature Differential Setting : 10°F 2. Operating Temperature : -14°F (compressor off) ~ -4°F (compressor on) 3. Defrost Frequency Setting : 6Hr															
6	Setting Back UP	1. In case of unexpected power failure or power off, does not require resetting. 2. The setting is memorized.															
7	Error Display	1. If cabinet interior temperature is higher than 14°F the panel displays [Hi], and lower than -50°F the panel displays [Lo]. 2. Press [down] button 5 times with pressing and holding [up] button, the Error display mode is activated and it displays errors. 3. When there are more than 2 errors, the errors are displayed alternately. 4. If you press [MODE/SET] button, the error display mode will be finished															

4) ERROR CODE

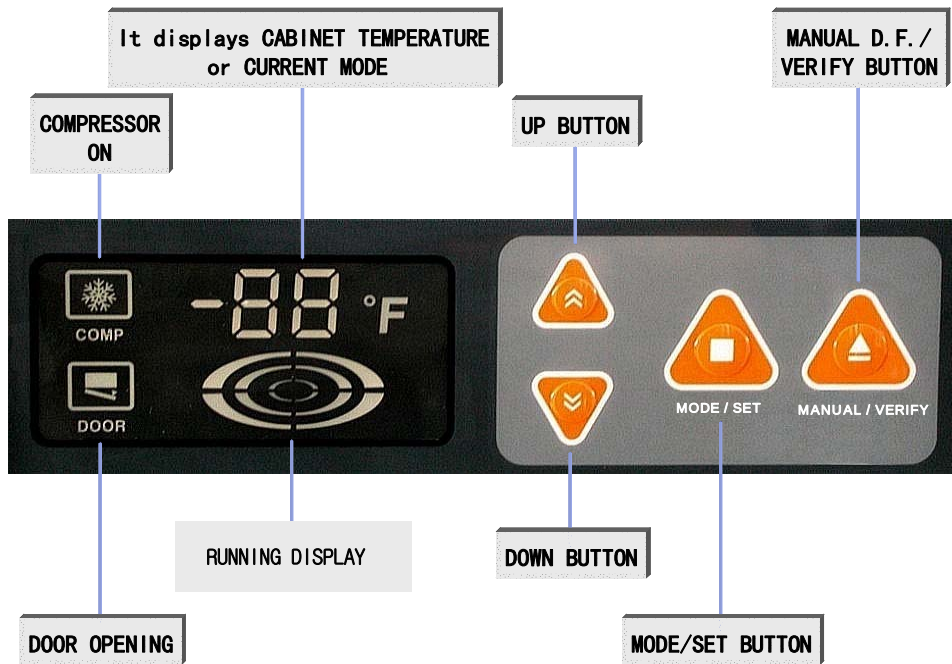
Error Code	Condition	Possible Cause	When error occurring, operation
C1	During normal mode (not defrost mode), D-sensor sensing is higher than 23°F and Compressor does not run for 60min after compressor off	● Ambient Temperature too low (below -5°F) ● T-sensor defective	1) Register "C1" 2) Compressor ON:20Minutes 3) Compressor OFF:5Minutes 4) Operate 2),3) three times 5) Operate Normal Mode
C2	Entering defrost mode, D-sensor sensing is higher than 50°F and T-sensor sensing is lower than 14°F	● D-sensor defective	1) Register "C2" 2) Operate Pre-Cool step : 30Minutes 3) Defrost Heater ON : 20Minutes 4) Operate the rest Defrost Mode
C3	After defrost mode elapsed for 40minutes, D-sensor sensing is lower than 23°F	● D-sensor defective ● Defrost heater defective	1) Register "C3" 2) Operate the rest Defrost Mode
C4	T-sensor sensing is more than 18°F higher than temperature set point for 4hours Additional Possible Cause: Too many hot goods loaded!!	● Refrigerant leak ● Control board defective ● Door not sealing ● Not enough defrosts ● Condenser dirty ● Sensor defective	1) Register "C4" 2) Compressor ON:20Minutes 3) Compressor OFF:5Minutes 4) Operate 2),3) three times 5) Operate Normal Mode
C-	No error code	● N/A	N/A

2. OPERATION FOR BASR3 MODEL

1) BASIC OPERATION

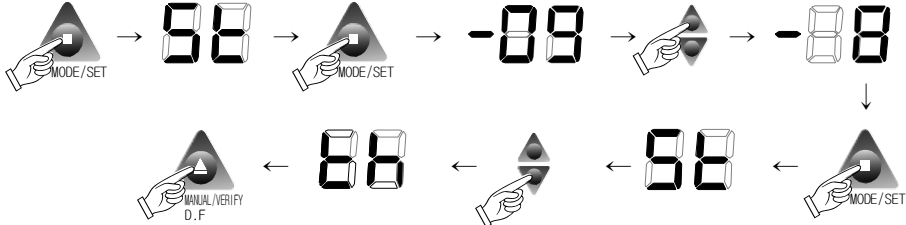
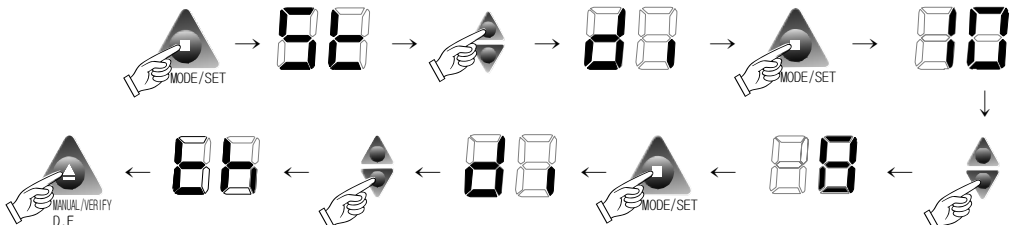
- ① Plug in the power cord and turn on the power switch located on the bottom of the top grille right side. [The unit should be plugged into a **115V±10%, 60Hz** (BASR3)]
- ② Display panel will be lightened for 2 seconds with buzzer then displays cabinet interior temperature and running conditions.
If cabinet interior temperature is higher than 50°F(BASR3), compressor will run without delay, and lower than 50°F (BASR3), compressor will run after 3 minutes.
- ③ The default OPERATING TEMPERATURE SETTING
BASR3 : Temperature set point (setting mode sign [st]) is 39°F
Temperature differential set point (setting mode sign [di]) is 10°F.
(Operating Temperature : 34°F ~ 44°F)
Range of adjustable set point: 25°F ~ 50°F
- ④ Defrost frequency is controlled by MICOM and the default defrost frequency is 6 hours.
- ⑤ The light inside the cabinet comes on when the door is opened.
The cabinet interior cooling fan has 3seconds delay when the door is closed.
- ⑥ If door is opened, door open warnign sign will turn on.
If door is opened more than 30 seconds, the sound alarm beeps 2times,
if open more than 60 seconds, the sound alarm beeps 5 times and if open more than 5 minutes,
the sound alarm will beep continuously.
- ⑦ If cabinet interior temperature is higher than 68°F(BASR3) the panel displays [Hi] and
lower than 14°F(BASR3) the panel displays [Lo].

2) ELECTRONIC CONTROLLER SETTING MODE



Setting Mode Sign	Setting Mode
St	Temperature Setting Mode
di	Temperature Differential Setting Mode
dt	Defrost Frequency Setting Mode
dF	Forced Defrost Mode
th	Cabinet Temperature Verification Mode

No	Setting Mode	Mode Sign	How to Setting (REFRIGERATOR)
1	Temperature Setting Mode	"St"	1. To enter this mode, press [MODE/SET] and [UP or DOWN] simultaneously until [St] is displayed. 2. Then press [MODE/SET] to see current temperature set point. 3. To change the set point, press [UP or DOWN] until the desired value is displayed. 4. At the end of the sequence, press [MODE/SET] to set the value.

No	Setting Mode	Mode Sign	How to Setting (REFRIGERATOR)
1	Temperature Setting Mode	"St"	5. To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].  6. Range of adjustable set point : 25°F to 50°F
2	Temperature Differential Setting Mode	"di"	1. To enter this mode, press [MODE/SET] and [UP or DOWN] simultaneously until [di] is displayed. 2. Then press [MODE/SET] to see current temperature differential. 3. To change the set point, press [UP or DOWN] until the desired value is displayed. 4. At the end of the sequence, press [MODE/SET] to set the value. 5. To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].  6. Range of adjustable set point : 6°F to 16°F (The Unit of Setting : 2°F)
3	Defrost Frequency Setting Mode	"dt"	1. To enter this mode, press [MODE/SET] and [UP or DOWN] simultaneously until [dt] is displayed. 2. Then press [MODE/SET] to see current defrost frequency. 3. To change the defrost frequency, press [UP or DOWN] until the desired value is displayed. 4. At the end of the sequence, press [MODE/SET] to set the value. 5. To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].

3) NORMAL CONTROL PROCESS

No	FUNCTION	FUNCTION SPEC (REFRIGERATOR)
1	Initial Operating	1. After Power ON, Display panel will be lightened for 2 seconds with buzzer then displays cabinet interior temperature. 2. If cabinet interior temperature is higher than 14°F, compressor will run without delay, and lower than 14°F, compressor will run after 3 minutes.
2	Normal Operating	1. Compressor and condenser fan motor is controlled by T-sensor and MICOM program. 2. Compressor ON/OFF Temperature Compressor ON : Temperature Setting Value + (Temperature Differential Setting Value/2) Compressor OFF : Temperature Setting Value - (Temperature Differential Setting Value/2) ex) st: 39°F, di: 10°F ⇒ Compressoer ON: 39+(10/2) = 44°F, Compressoer OFF: 39-(10/2) = 34°F
3	Defrost Mode	1. Defrost Frequency : Preprogrammed frequency interval 2. Defrost time : 22 minutes 3. Defrost mode Operation 1) Compressor OFF, Condenser Fan OFF 2) Evaporator Fan ON 3) [dF] is displayed
4	Default Setting	1. Temperature Setting : 39°F, Temperature Differential Setting : 10°F 2. Operating Temperature : 44°F (compressor on) ~ 34°F (compressor off) 3. Defrost Frequency Setting : 6Hr
5	Setting Back UP	1. In case of unexpected power failure or power off, does not require resetting. 2. The setting is memorized.
6	Error Display Mode	1. If cabinet interior temperature is higher than 68°F, the panel displays [Hi], and lower than 14°F, the panel displays [Lo]. 2. Press [down] button 5 times with pressing and holding [up] button, the Error display mode is activated and it displays errors. 3. When there are more than 2 errors, the errors are displayed alternately. 4. If you press [MODE/SET] button, the Error Display Mode will be finished.

4) ERROR CODE

Error Code	Condition	Possible Cause	When error occurring, operation
C1	During normal mode (not defrost mode), T-sensor sensing is lower than 14°F (display [Lo]) for 60minutes.	T-sensor defective	1) Register "C1" 2) Compressor ON:15Minutes 3) Compressor OFF:5Minutes 4) Operate 2),3) three times 5) Operate Normal Mode
C2	During normal mode (not defrost mode), T-sensor sensing is higher than 68°F (display [Hi]) for 60minutes.	T-sensor defective	1) Register "C2" 2) Compressor OFF:22Minutes 3) Compressor ON:15Minutes 4) Operate 2),3) three times 5) Operate Normal Mode
C4	T-sensor sensing is more than 18°F higher than temperature set point for 4hours Additionnal Possible Cause: Too many hot goods loaded!!	- Refrigerant leak - Control board defective - Door not sealing - Not enough defrosts - Condenser dirty - Sensor defective	1) Register "C4" 2) Compressor ON:20Minutes 3) Compressor OFF:5Minutes 4) Operate 2),3) three times 5) Operate Normal Mode
C-	No error code	N/A	N/A

3. OPERATION FOR BASR1, BASR2, BAGR72 MODELS

1) BASIC OPERATION

- ① BASR1, BASR2 Models : Plug in the power cord and turn on the power switch located on the bottom of the top grille right side.

[The unit should be plugged into a $115V \pm 10\%$, 60Hz (BASR1, BASR2)]

- ② BAGR72 Model : Plug in the power cord and turn on the lamp switch located on the left of the temperature controller.

[The unit should be plugged into a $115V \pm 10\%$, 60Hz (BAGR72)]

- ③ The controller(Thermostat) has been preset "3" position(BASR1, BASR2, BAGR72 models) at the factory

2) DEFROST

This unit uses an off cycle defrost. No needs any programming.

3) CONTROL TEMPERATURE

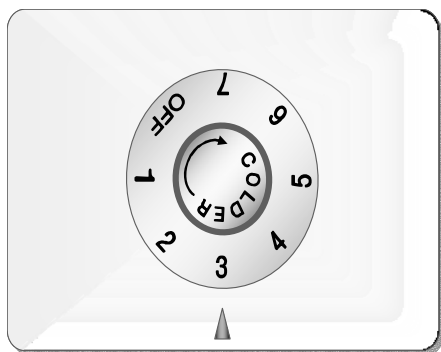
- ① The temperature controller is mounted on top of the cabinet interior.
- ② The controller has been preset "3" position(BASR1, BASR2, BAGR72 models) at the factory to maintain the average cabinet temperature of 38°F
- ③ If you set the controller "7" position, the compressor will be run continuously.
(BASR1, BASR2 models)

☞ To run like above more than two hours, it may cause the compressor to be damaged.

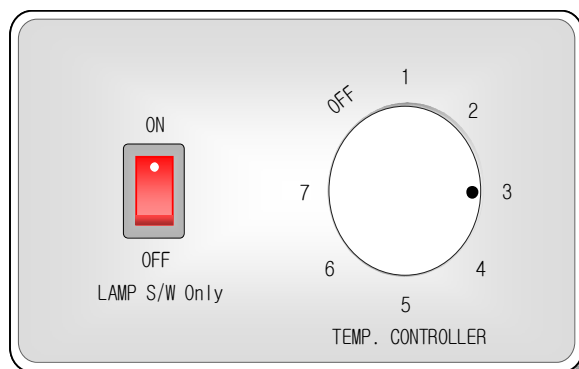
The "7" position is for service technician only.

4) LAMP

- ① BASR1, BASR2 Models : The light inside cabinet comes on when the door is opened.
- ② BAGR72 Model : The light comes on when the lamp switch is on.



BASR1, BASR2 MODELS



BAGR72 MODELS

4. INSTRUCTION FOR RE-HINGING DOOR (BASF1, BASR1 MODELS)

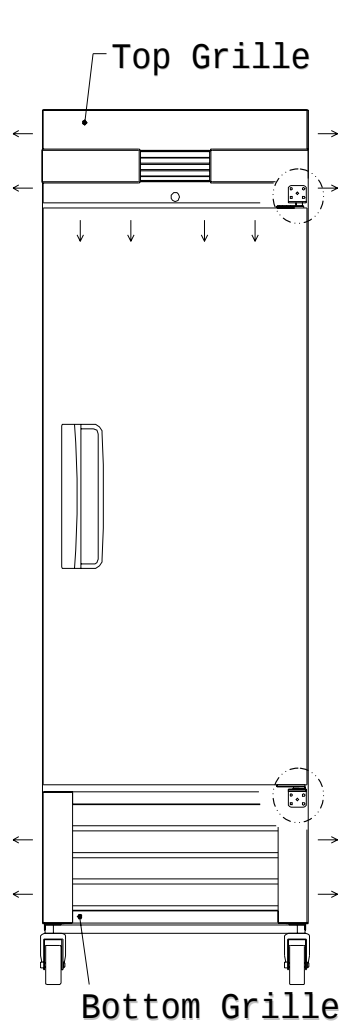


Figure 1.

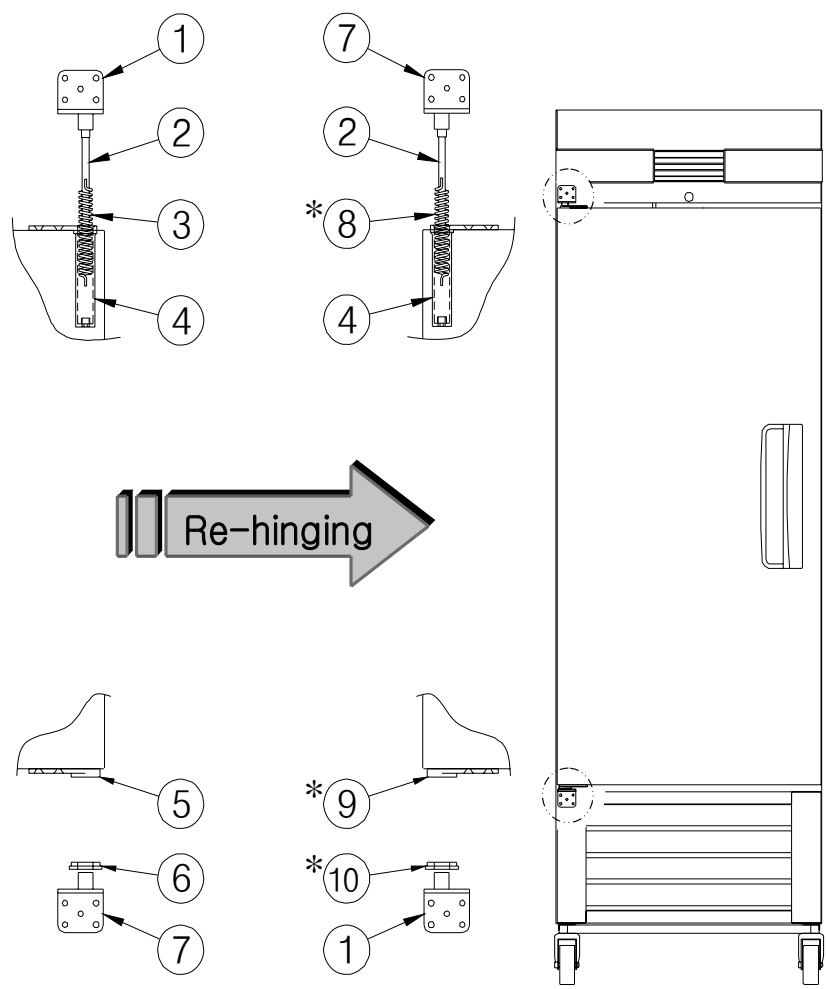


Figure 2.

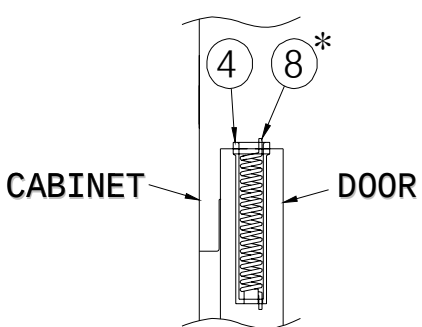


Figure 3.

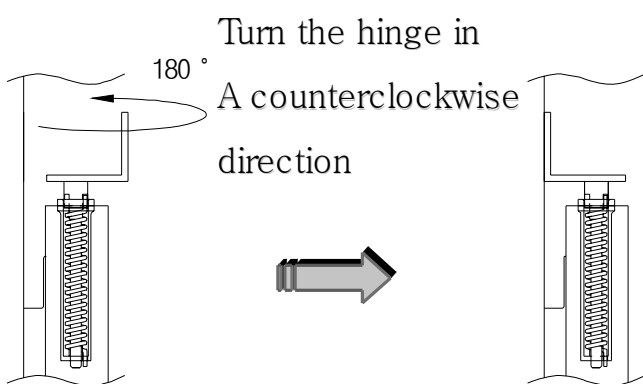


Figure 4.

- Wear Protective glove when removing the hinges (#1,#7).
- In case of re-hinging door, door re-hinging kit (includes #8,#9,#10) will be used instead of #3, #5, #6.
 #8: Torsion coiled spring (C101-144-031), #9: Door Bushing (Upper)-L (C101-132-010)
 #10: Door Bushing (Lower)-L (C101-132-020)
- The silver color spring (#8) is for left hand hinged door and the yellow color spring (#3) is for right hand hinged door.
- The letter "L" is marked on the bushing (#9,#10).

1) STEP1. Remove the door (Figure 1)

- 1) Remove the top grille by unscrewing the eight screws and the bottom grille by unscrewing the four screws.
- 2) Remove the hinge (#1).
- 3) Lift and remove the door.
- 4) Remove the hinge (#7).

2) STEP2. Replace the part in the door (Figure 1 and 2)

- 1) Reverse the door.
- 2) Replace the spring guide (#4) with the bushing (#9).
- 3) Replace the bushing (#5) with the spring guide (#4).

3) STEP3. Adapt the hinges (Figure 1 and 2)

- 1) Remove the shaft (#2) from the hinge (#1).
- 2) Remove the bushing (#6) from the hinge (#7).
- 3) Install the shaft (#2) to the hinge (#7).
- 4) Install the bushing (#10) to the hinge (#1).

4) STEP4. Reinstall the door (Figure 2, 3, and 4)

- 1) Install the hinge (#1).
- 2) Install the door.
- 3) Insert spring (#8) into the spring guide (#4) as indicated in figure 3.
- 4) Install the hinge (#7) as indicated in figure 4.

Be certain that the spring ends are engaged in the spring guide (#4) and the hinge (#7).

- 5) Install the top grille and the bottom grille.

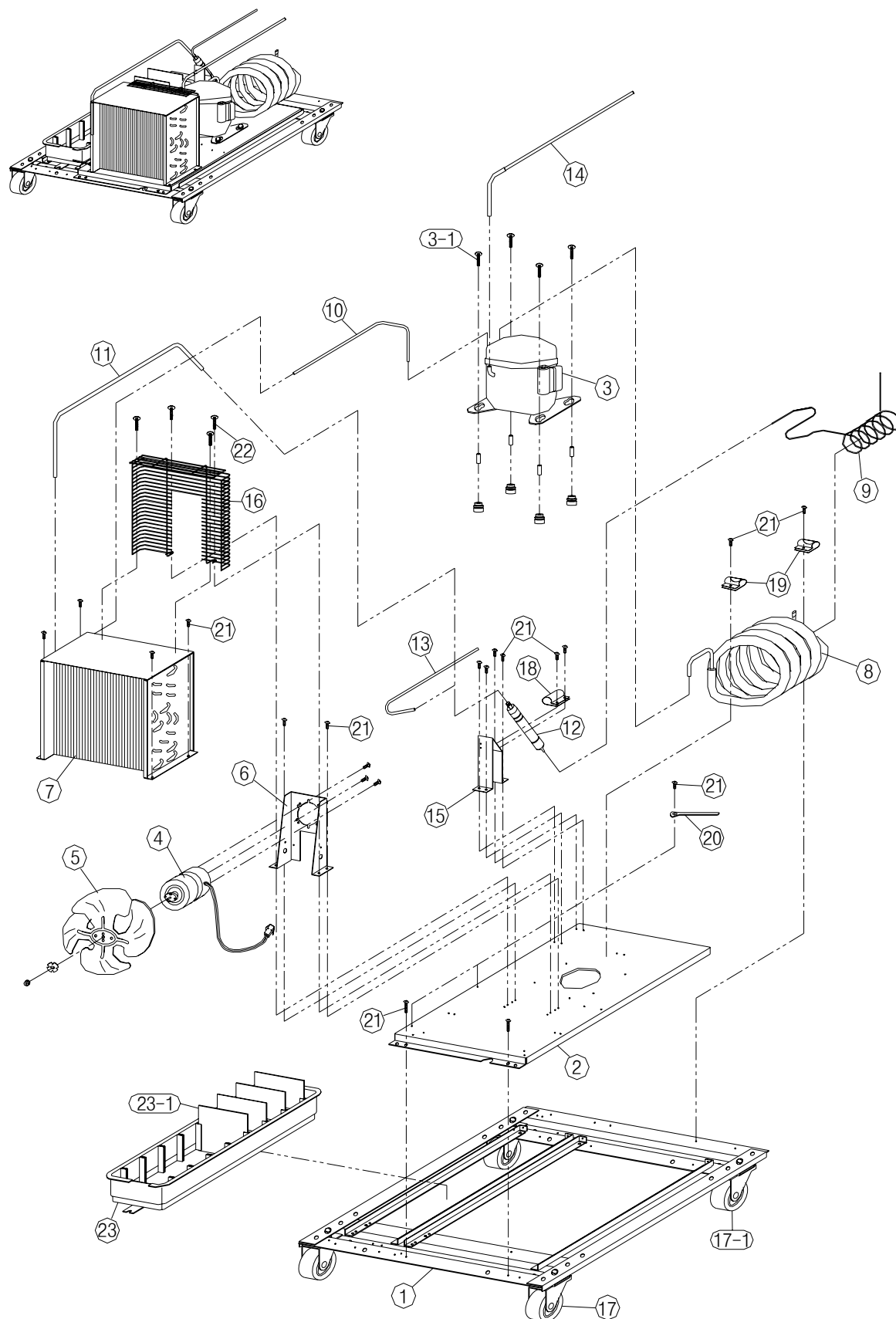
■ MODEL : BASF1/BASF2/BASF3(FREEZER) BASR1/BASR2/BASR3(REFRIGERATOR)
BAGR72 (REACH-IN MERCHANDISERS)

C. PARTS DIAGRAM AND LIST

1. CONDENSING UNIT	2
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2) BASF2 (FREEZER)	
3) BASF3 (FREEZER)	
4) BASR1 (REFRIGERATOR)	
5) BASR2 (REFRIGERATOR)	
6) BASR3 (REFRIGERATOR)	
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2) BASF2/BASR2 (2Door)	
3) BASF3/BASR3 (3Door)	
4) BAGR72 (Glass 3Door)	

1. CONDENSING UNIT

1) BASF1 (FREEZER)

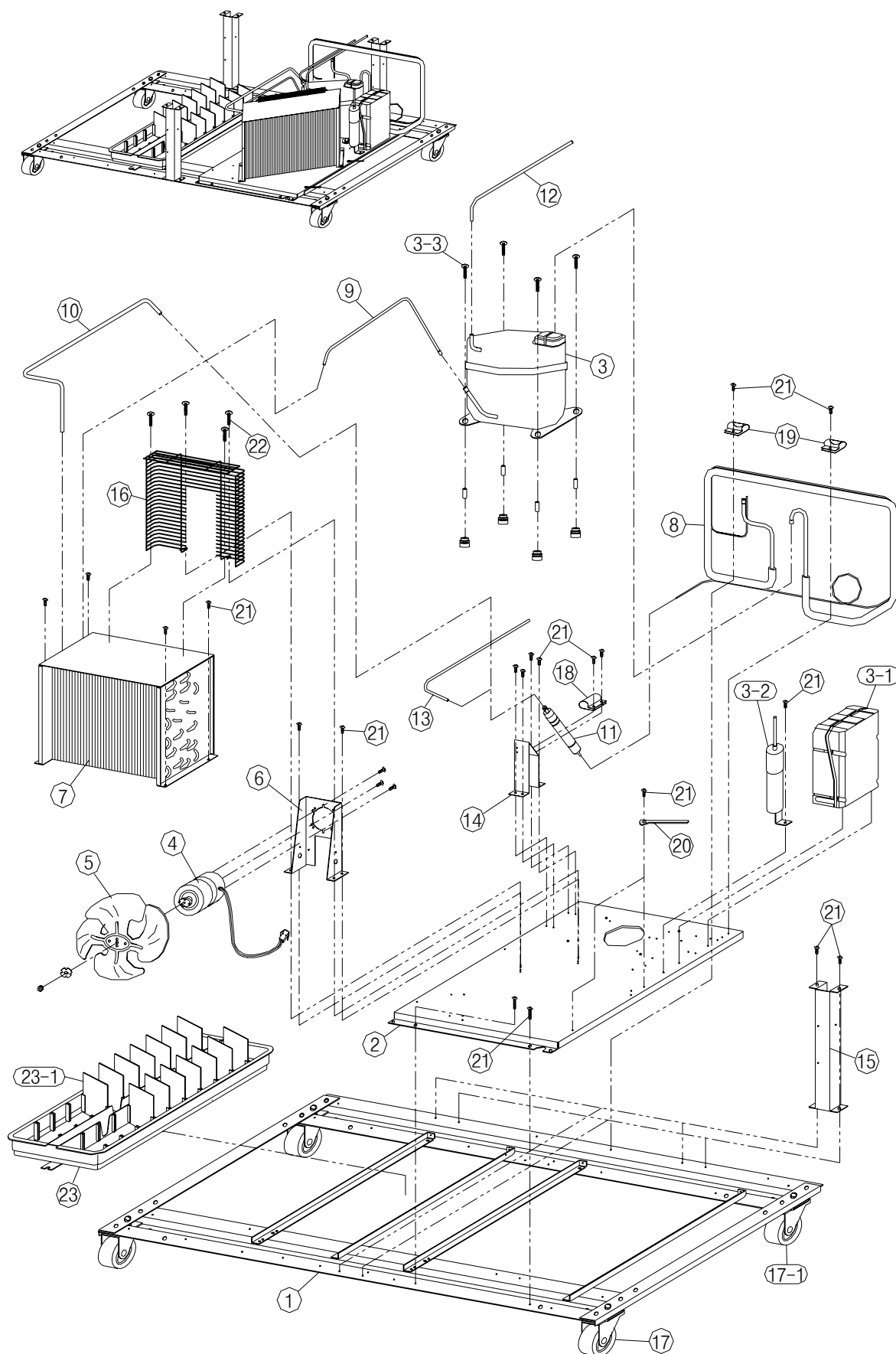


CONDENSING UNIT

BASF1

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (F1)	C101-130-080	G.I., 2.0t	1	
2	Unit Base Plate (F1)	C101-131-503	G.I., 1.6t	1	
3	Compressor(2420A)	C101-19D-000	CAE2420Z(A), 115V/60Hz	1	
3-1	Bolt Washer for comp	7099-160-351	M6*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I., 1.6t	1	
7	Condenser (F1)	C101-135-010	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (F1)	C101-135-031	C1220T-0, Ø9.52	1	
9	Capillary (B)-F1	C101-145-080	C1220T-H, Ø2.5	1	
10	Discharge Pipe (F1)	C101-135-041	C1220T-0, Ø6.35	1	
11	Connect Drier Pipe (F1)	C101-135-050	C1220T-0, Ø9.52	1	
12	Drier	0046-526-300	XH-9 30g	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Charge Pipe (Comp)	C101-145-061	C1220T-0, Ø9.52	1	
15	Dryer Brkt	0041-133-001	G.I., 1.2t	1	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Caster (4"-B)	C101-198-130	TP5040-21 HDP TLB	2	
17-1	Caster (4")	C101-198-140	TP5040-21 HDP	2	
18	Drier Band	0041-134-000	G.I., 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I., 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I., Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	22	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray	S150-432-122	HIPS	1	
23-1	Vaporize Paper	0044-455-401	120*138*2.5t	4	

2) BASF2 (FREEZER)

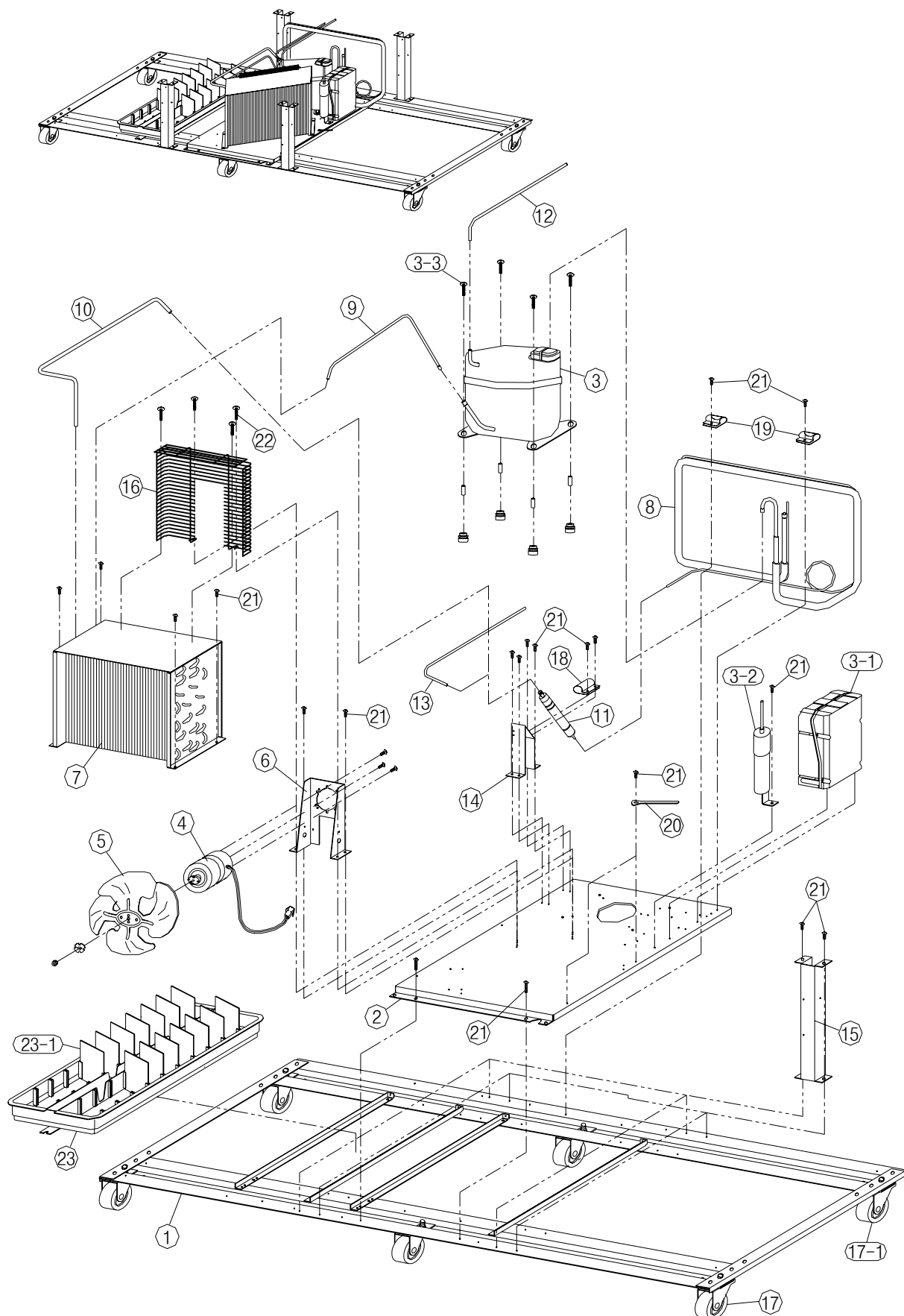


CONDENSING UNIT

BASF2

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (F2)	C102-130-080	G.I, 2.0t	1	
2	Ass'y Unit Base Plate (F2)	C102-130-193	G.I, 2.0t	1	
3	Compressor(2432A)	C102-19D-000	CAJ2432Z(A), 115V/60Hz	1	
3-1	Comp. Relay Box	C102-19A-001	For CAJ2432Z(A)	1	
	Starting Capacitor	-	315 μ F / 160V	1	
3-2	Running Capacitor	-	30 μ F / 400V	1	
3-3	Hex Bolt	7094-180-351	M8*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I, 1.6t	1	
7	Condenser (F2)	C102-135-010	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (F2)	C102-135-030	C1220T-0, Ø9.52/2.5	1	
9	Discharge Pipe (F2)	C102-135-040	C1220T-0, Ø6.35	1	
10	Connect Drier Pipe (F2)	C102-135-051	C1220T-0, Ø9.52	1	
11	Drier	0046-526-300	XH-9 30g	1	
12	Charge Pipe (Comp)	0045-507-401	C1220T-0, Ø6.35	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Dryer Brkt	0041-133-001	G.I, 1.2t	1	
15	Reinforce Angle	0046-131-403	G.I, 1.6t	3	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Caster (4"-B)	C101-198-130	TP5040-21 HDP TLB	2	
17-1	Caster (4")	C101-198-140	TP5040-21 HDP	2	
18	Drier Band	0041-134-000	G.I, 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I, 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I, Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	31	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray (B)	0046-206-200	HIPS	1	
23-1	Vaporize Paper	0046-430-401	105*105*2.5t	14	

3) BASF3 (FREEZER)

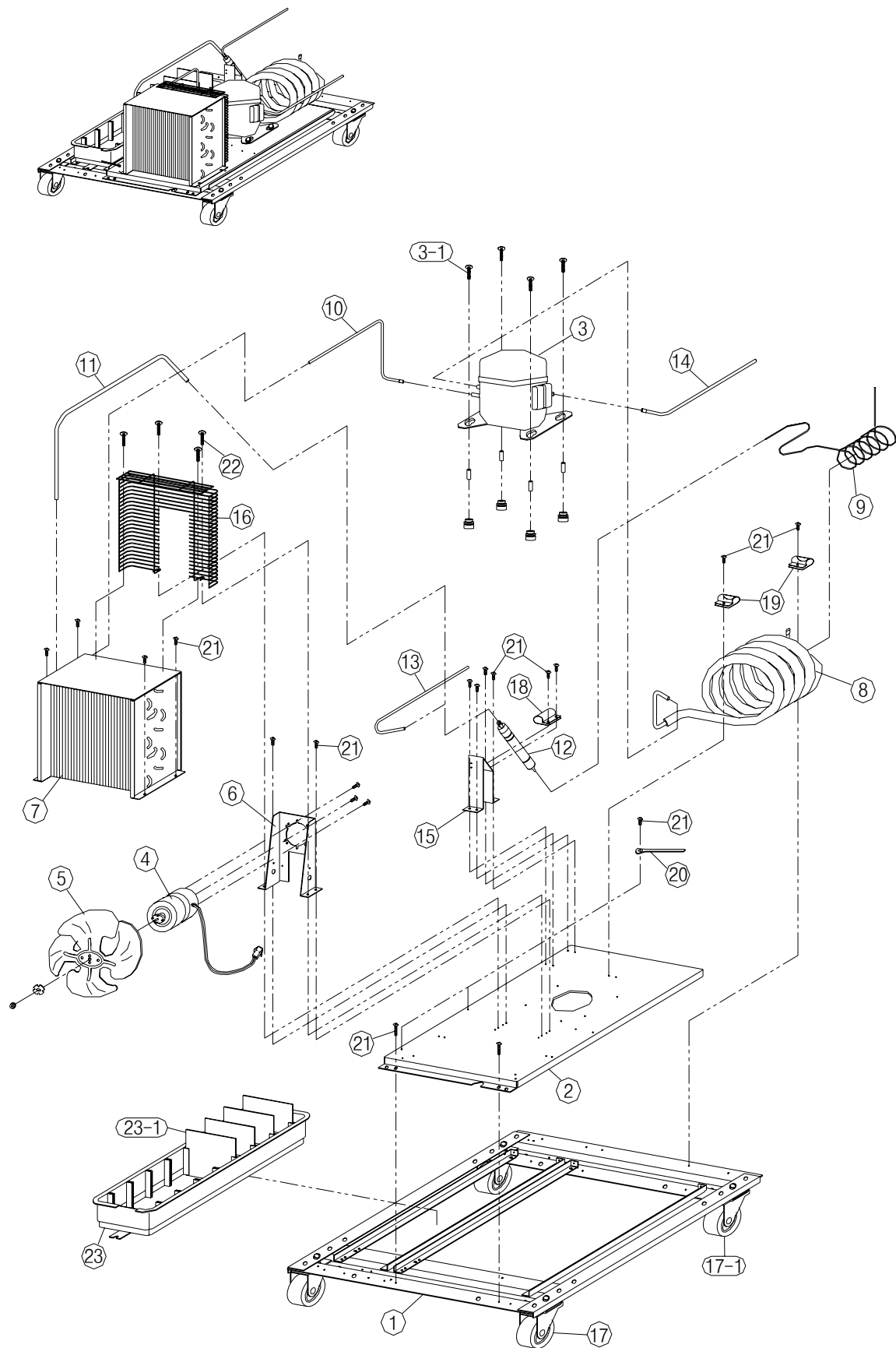


CONDENSING UNIT

BASF3

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (F3)	C103-130-000	G.I, 2.0t	1	
2	Ass'y Unit Base Plate (F2)	C102-130-193	G.I, 2.0t	1	
3	Compressor(2446H)	C103-19D-000	CAJ2446Z(H), 220V/60Hz	1	
3-1	Comp. Relay Box	C103-19A-040	For CAJ2446Z(H)	1	
	Starting Capacitor	C103-19G-000	88 μ F/260V/330V	1	
3-2	Running Capacitor	C103-19G-010	15 μ F/440V	1	
3-3	Hex Bolt	7094-180-351	M8*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I, 1.6t	1	
7	Condenser (F2)	C102-135-010	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (F3)	C103-135-020	C1220T-0, Ø12.7/4.76	1	
9	Discharge Pipe (F2)	C102-135-040	C1220T-0, Ø6.35	1	
10	Connect Drier Pipe (F2)	C102-135-051	C1220T-0, Ø9.52	1	
11	Drier (F3)	C103-135-030	XH-9 30g	1	
12	Charge Pipe (Comp)	0045-507-401	C1220T-0, Ø6.35	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Dryer Brkt	0041-133-001	G.I, 1.2t	1	
15	Reinforce Angle	0046-131-403	G.I, 1.6t	4	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Caster (4"-B)	C101-198-130	TP5040-21 HDP TLB	3	
17-1	Caster (4")	C101-198-140	TP5040-21 HDP	3	
18	Drier Band	0041-134-000	G.I, 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I, 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I, Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	33	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray (B)	0046-206-200	HIPS	1	
23-1	Vaporize Paper	0046-430-401	105*105*2.5t	14	

4) BASR1 (REFRIGERATOR)

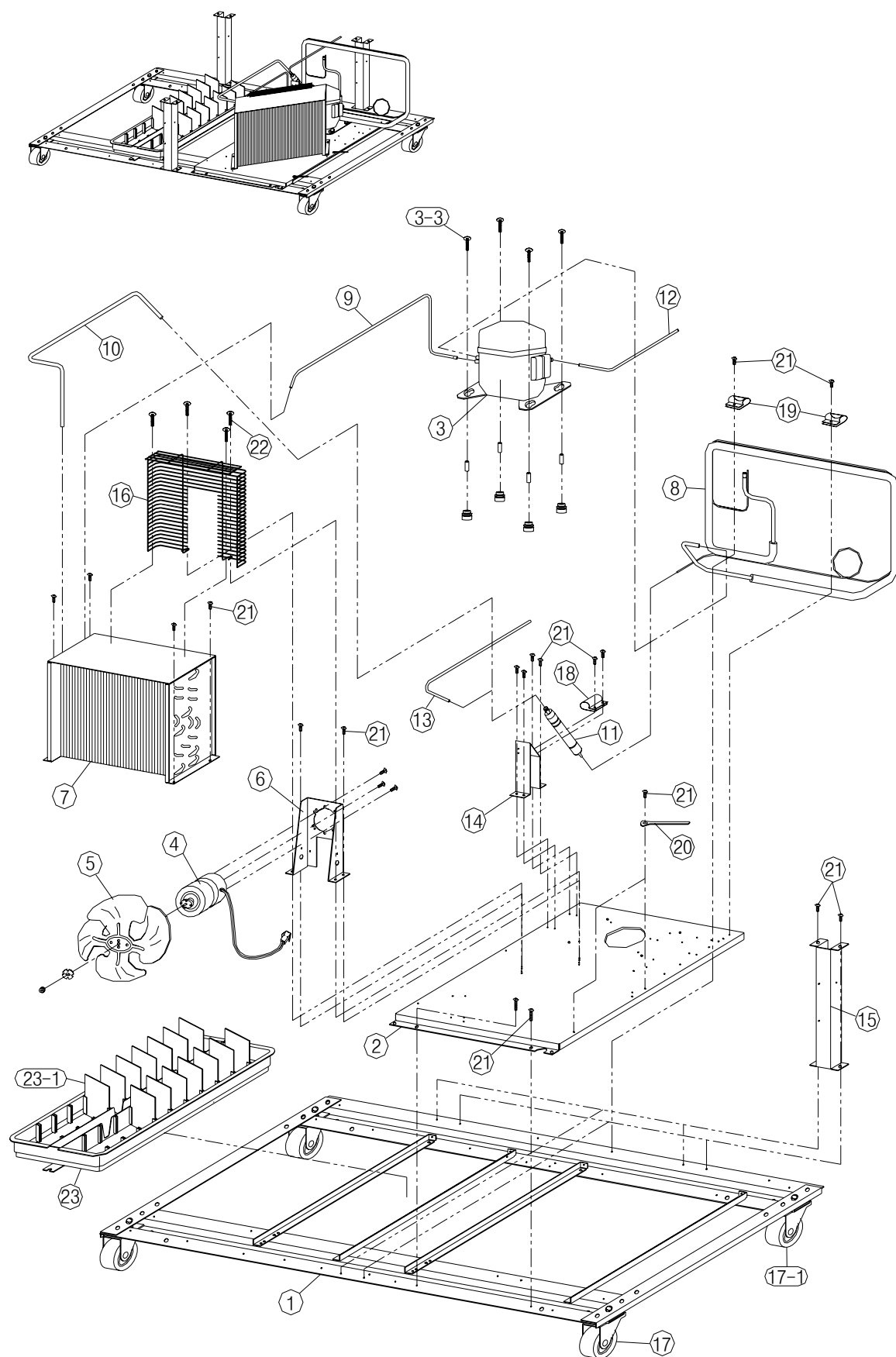


CONDENSING UNIT

BASR1

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (F1)	C101-130-080	G.I, 2.0t	1	
2	Unit Base Plate (F1)	C101-131-503	G.I, 1.6t	1	
3	Compressor(SK6A1C)	C111-19D-000	SK6A1C-H2Y, 115V/60Hz	1	
3-1	Hex Bolt	0023-921-900	M6*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I, 1.6t	1	
7	Condenser (R700)	0044-502-203	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (R1)	C111-135-030	C1220T-0, Ø9.52	1	
9	Capillary (B)-R1	C111-145-080	C1220T-H, Ø3.0	1	
10	Discharge Pipe (R1)	C111-135-040	C1220T-0, Ø6.35	1	
11	Connect Drier Pipe (R1)	C111-135-050	C1220T-0, Ø9.52	1	
12	Drier	0046-526-300	XH-9 30g	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Charge Pipe (Comp)	C111-145-061	C1220T-0, Ø6.35	1	
15	Dryer Brkt	0041-133-001	G.I, 1.2t	1	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Caster (4"-B)	C101-198-130	TP5040-21 HDP TLB	2	
17-1	Caster (4")	C101-198-140	TP5040-21 HDP	2	
18	Drier Band	0041-134-000	G.I, 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I, 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I, Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	22	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray	S150-432-122	HIPS	1	
23-1	Vaporize Paper	0044-455-401	120*138*2.5t	4	

5) BASR2 (REFRIGERATOR)

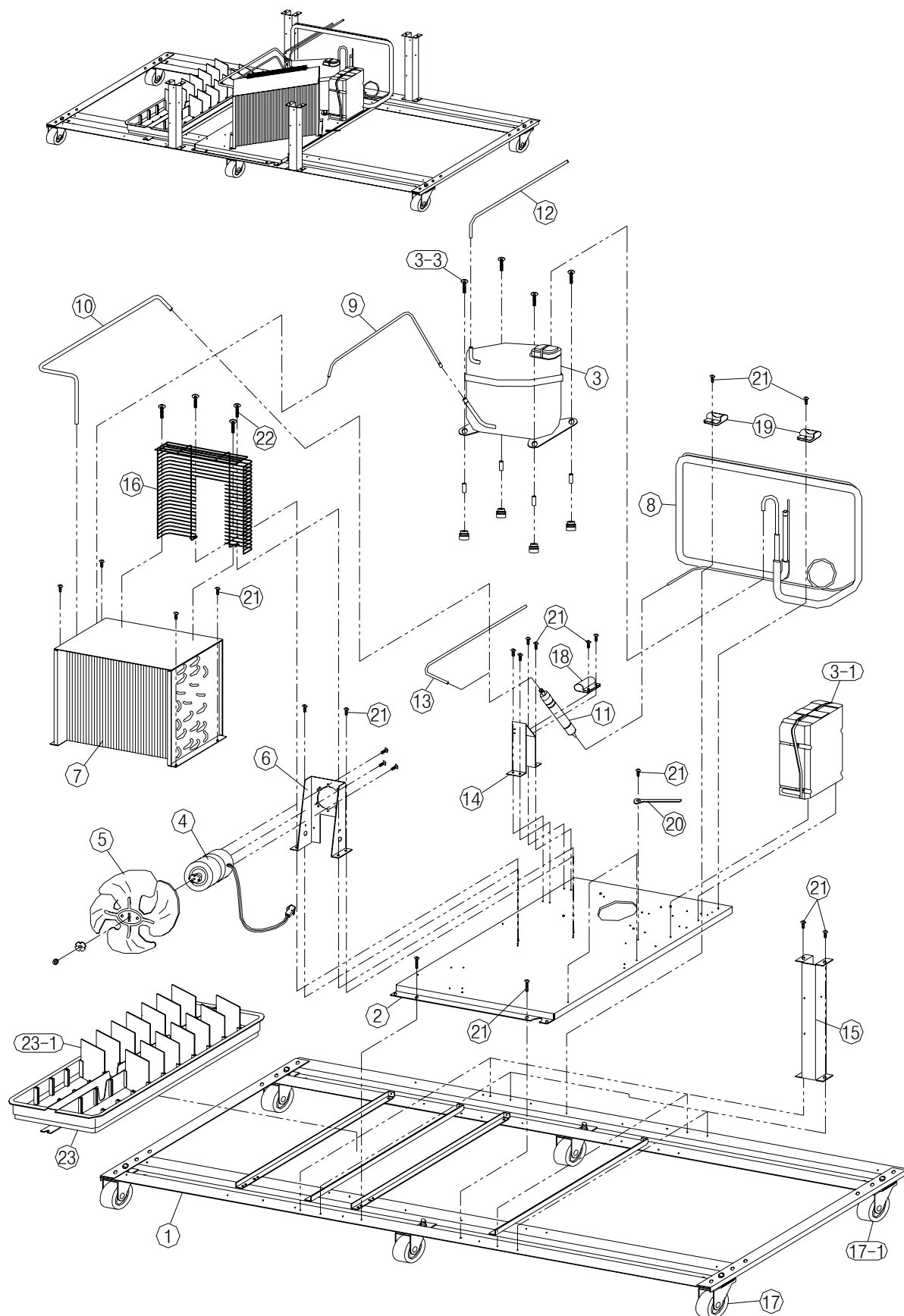


CONDENSING UNIT

BASR2

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (F2)	C102-130-080	G.I, 2.0t	1	
2	Unit Base Plate (R2)	C112-190-100	G.I, 2.0t	1	
3	Compressor(SK6A1C)	C111-19D-000	SK6A1C-H2Y, 115V/60Hz	1	
3-3	Hex Bolt	0023-921-900	M6*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I, 1.6t	1	
7	Condenser (R2)	C112-135-010	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (R2)	C112-135-030	C1220T-0, Ø9.52/3.0	1	
9	Discharge Pipe (R2)	C112-135-040	C1220T-0, Ø6.35	1	
10	Connect Drier Pipe (R2)	C112-135-050	C1220T-0, Ø9.52	1	
11	Drier	0046-526-300	XH-9 30g	1	
12	Charge Pipe (Comp)	0020-505-001	C1220T-0, Ø6.35	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Dryer Brkt	0041-133-001	G.I, 1.2t	1	
15	Reinforce Angle	0046-131-403	G.I, 1.6t	3	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Caster (4"-B)	C101-198-130	TP5040-21 HDP TLB	2	
17-1	Caster (4")	C101-198-140	TP5040-21 HDP	2	
18	Drier Band	0041-134-000	G.I, 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I, 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I, Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	28	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray (B)	0046-206-200	HIPS	1	
23-1	Vaporize Paper	0046-430-401	105*105*2.5t	14	

6) BASR3 (REFRIGERATOR)

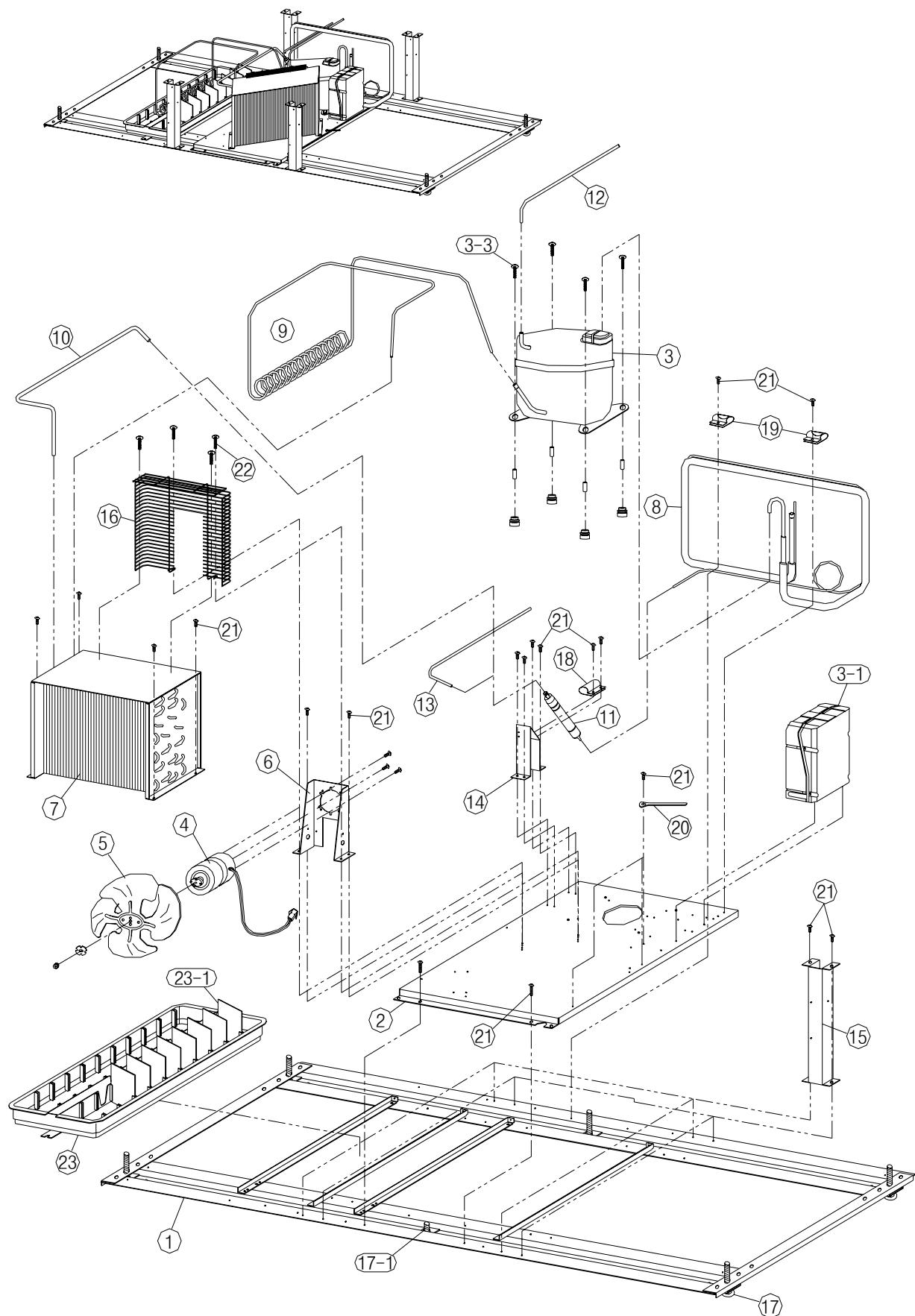


CONDENSING UNIT

BASR3

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (F3)	C103-130-000	G.I, 2.0t	1	
2	Ass'y Unit Base Plate (F2)	C102-130-193	G.I, 2.0t	1	
3	Compressor(4461A)	C113-19D-000	CAJ4461Y(A), 115V/60Hz	1	
3-1	Comp. Relay Box	C113-19A-030	For CAJ4461Y(A)	1	
	Starting Capacitor	S121-49G-000	250 μ F/160V	1	
3-3	Hex Bolt	7094-180-351	M8*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I, 1.6t	1	
7	Condenser (F2)	C102-135-010	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (R3)	C113-135-020	C1220T-0, Ø12.7/4.76	1	
9	Discharge Pipe (R3)	C113-135-030	C1220T-0, Ø6.35	1	
10	Connect Drier Pipe (F2)	C102-135-051	C1220T-0, Ø9.52	1	
11	Drier (F3)	C103-135-030	XH-9 30g	1	
12	Charge Pipe (Comp)	0045-507-401	C1220T-0, Ø6.35	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Dryer Brkt	0041-133-001	G.I, 1.2t	1	
15	Reinforce Angle	0046-131-403	G.I, 1.6t	4	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Caster (4"-B)	C101-198-130	TP5040-21 HDP TLB	3	
17-1	Caster (4")	C101-198-140	TP5040-21 HDP	3	
18	Drier Band	0041-134-000	G.I, 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I, 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I, Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	32	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray (B)	0046-206-200	HIPS	1	
23-1	Vaporize Paper	0046-430-401	105*105*2.5t	14	

7) BAGR72 (REACH-IN MERCHANDISERS)



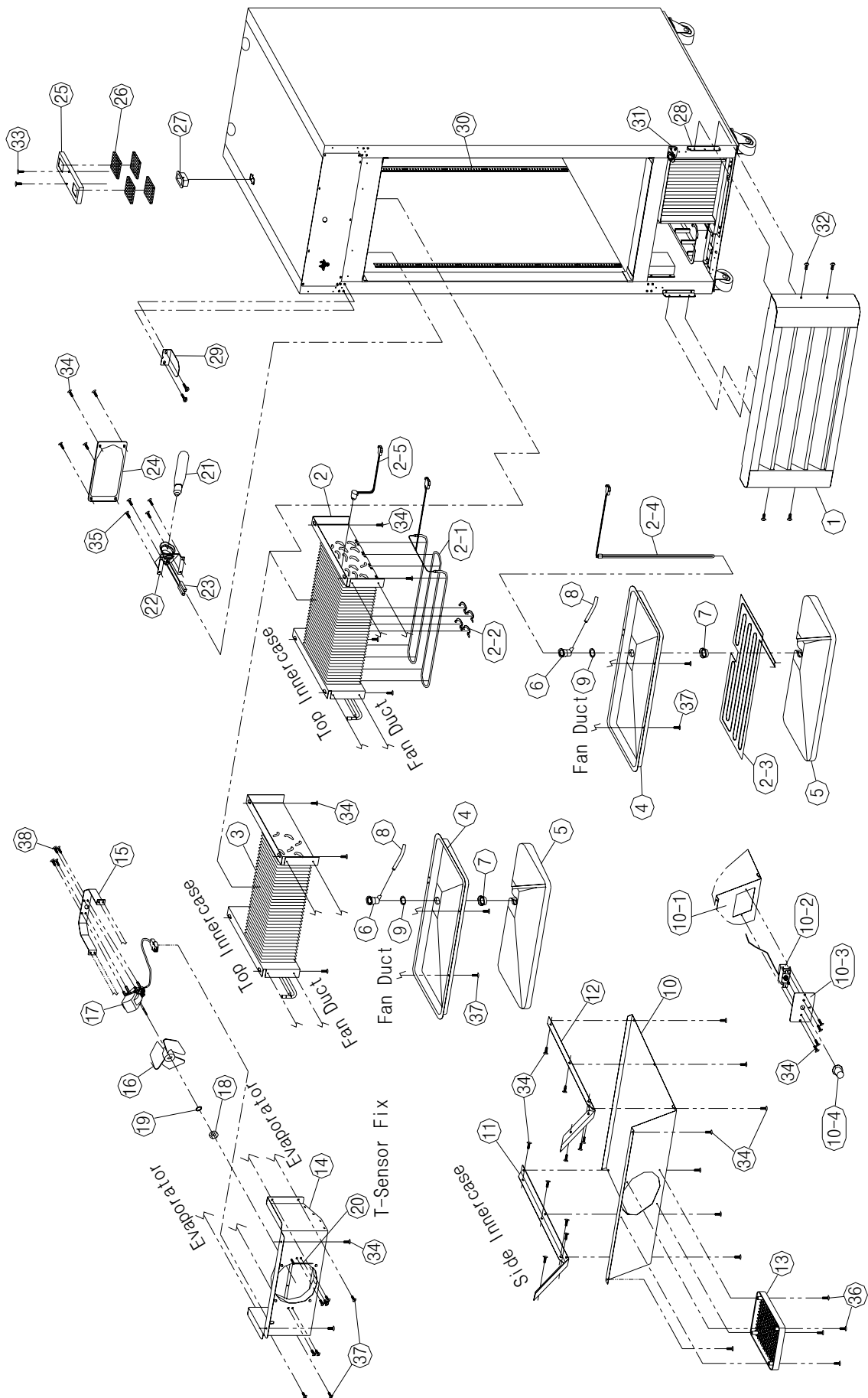
CONDENSING UNIT

BAGR72

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Unit Base (GR72)	S121-430-061	G.I, 2.0t	1	
2	Ass'y Unit Base Plate (F2)	C102-130-193	G.I, 2.0t	1	
3	Compressor(4476A)	S121-49D-000	CAJ4476Y(A), 115V/60Hz	1	
3-1	Comp. Relay Box	S121-49A-030	For CAJ4476Y(A)	1	
	Starting Capacitor	S121-49G-000	250 μ F/160V	1	
3-3	Hex Bolt	7094-180-351	M8*35	4	
4	Condenser Motor (UL)	0046-630-900	MA-7425W1, 120V/60Hz	1	
5	Condenser Fan	0046-407-900	Al, Ø225	1	
6	Cond. Motor Bracket	0040-101-001	G.I, 1.6t	1	
7	Condenser (F2)	C102-135-010	C1220TS-H, Ø9.52	1	
8	Ass'y Suction Pipe (R3)	C113-135-020	C1220T-0, Ø12.7/4.76	1	
9	Hot Pipe (GR72)	S121-435-010	C1220T-0, Ø6.35	1	
10	Connect Drier Pipe (F2)	C102-135-051	C1220T-0, Ø9.52	1	
11	Drier (F3)	C103-135-030	XH-9 30g	1	
12	Charge Pipe (Comp)	0045-507-401	C1220T-0, Ø6.35	1	
13	Charge Pipe (Drier)	0046-520-400	C1220T-0, Ø6.35	1	
14	Dryer Brkt	0041-133-001	G.I, 1.2t	1	
15	Reinforce Angle	0046-131-403	G.I, 1.6t	4	
16	Cond. Fan Cover	C101-134-190	MSWR10	1	
17	Adjust Foot	7094-000-700	SWRCH 12R	5	
17-1	Adjust Foot (36)	S121-444-120	SWRCH 12R*13	1	
18	Drier Band	0041-134-000	G.I, 0.5t	1	
19	Drier Band (Suction)	4444-000-0	G.I, 0.6t	2	
20	Retainer Coil-90	6643-001-9	G.I, Coating	3	
21	Tapping Screw (TH2)	7129-240-101	4*10	32	
22	Tapping Screw (TH1)	7129-140-151	4*15	4	
23	Drain Tray (B)	0046-206-200	HIPS	1	
23-1	Vaporize Paper	0046-430-401	105*105*2.5t	8	

2. ASSEMBLY CABINET

1) BASF1/BASR1 (1Door)



ASSEMBLY CABINET

BASF1/BASR1

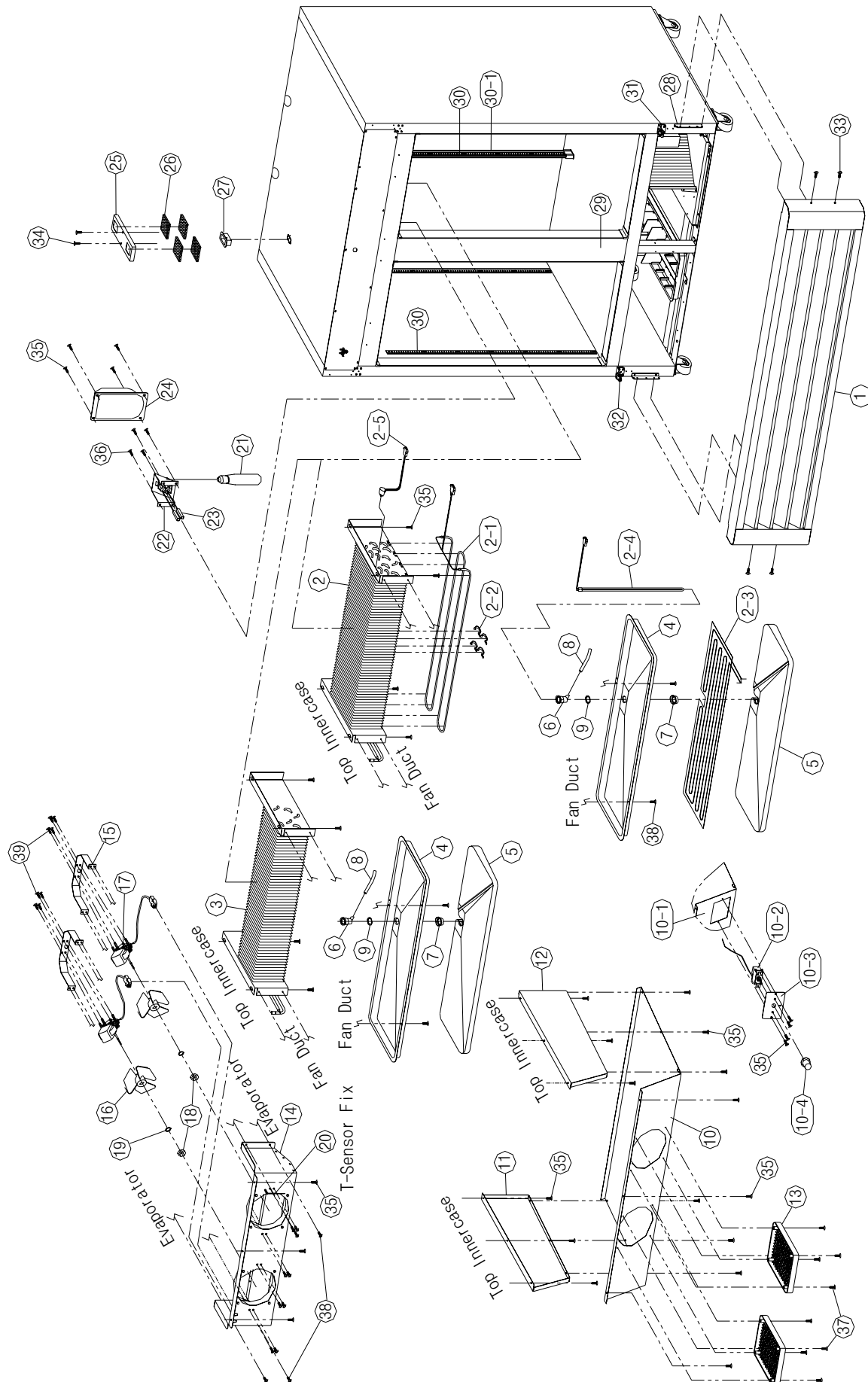
No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Lower Grille (F1)	C101-130-032	F1/R1	1	
2	Evaporator (F1)	C101-125-000	C1220TS-0,H Ø9.52	1	Only BASF1
2-1	Sheath Heater (F1)	C101-13L-081	120V/450W	1	Only BASF1
2-2	Heater Fixture	C101-141-590	SUS304, 0.5t	1	Only BASF1
2-3	Drain Heater (A-F1)	C101-13L-020	120V/60W	1	Only BASF1
2-4	Drain Heater (B)	C101-14L-030	120V/9W	1	Only BASF1
2-5	Bi-Metal (BASF)	C101-19I-000	115V/10A	1	Only BASF1
3	Evaporator (R1)	C111-125-000	C1220TS-0,H Ø9.52	1	Only BASR1
4	Drain Pan (F1)	C101-131-311	AL	1	
5	Pan Adiabatic (F1)	C101-134-100	F-P-S	1	
6	Pan Guide	C101-132-090	HIPS	1	
7	Pan Cap	C101-142-080	HIPS	1	
8	Drain Hose (I)	C101-143-090	PVC-S	1	
9	Pan Packing	C101-144-250	CR	1	
10	Duct Body (F1)	C101-121-270	SUS304 2B	1	Only BASF1
10-1	Duct Body (R1)	C111-121-080	SUS304 2B	1	Only BASR1
10-2	Thermostat (K55)	C111-19I-000	CCI Type, K55-Q5618	1	Only BASR1
10-3	Thermostat Bracket	C111-141-100	SUS304 2B	1	Only BASR1
10-4	Thermostat Knob	C111-132-000	ABS	1	Only BASR1
11	Side Duct (L) F1	C101-131-280	SUS304 2B	1	
12	Side Duct (R) F1	C101-131-290	SUS304 2B	1	
13	Cover Fan	0042-208-300	ABS	1	
14	Ass'y Fan Duct (F1)	C101-130-090	BASF1/BASR1	1	
15	Motor Bracket	0044-122-300	G.I, 1.6t	1	
16	Cooling Fan	0020-221-000	Zytel	1	
17	Cooling Motor	0046-631-900	IS-3225LTSA, 120V/60Hz	1	
18	Nut	7219-205-016	Stainless, M5	1	
19	Star Washer	7329-105-006	0.5t	1	
20	Clamp Tie (156)	C101-198-190	CMCT-156	1	Only BASF1
21	Lamp (40W)	C101-19N-000	120V/40W	1	

ASSEMBLY CABINET

BASF1/BASR1

[illegible]

2) BASF2/BASR2 (2Door)



ASSEMBLY CABINET

BASF2/BASR2

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Lower Grille (F2)	C102-130-062	F2/R2	1	
2	Evaporator (F2)	C102-125-000	C1220TS-0,H Ø9.52	1	Only BASF2
2-1	Sheath Heater (F2)	C102-13L-081	120V/670W	1	Only BASF2
2-2	Heater Fixture	C101-141-590	SUS304, 0.5t	4	Only BASF2
2-3	Drain Heater (A-F2)	C102-13L-020	120V/90W	1	Only BASF2
2-4	Drain Heater (B)	C101-14L-030	120V/9W	1	Only BASF2
2-5	Bi-Metal (BASF)	C101-19I-000	115V/10A	1	Only BASF2
3	Evaporator (R2)	C112-125-000	C1220TS-0,H Ø9.52	1	Only BASR2
4	Drain Pan (F2)	C102-131-210	AL	1	
5	Pan Adiabatic (F2)	C102-134-000	F-P-S	1	
6	Pan Guide	C101-132-090	HIPS	1	
7	Pan Cap	C101-142-080	HIPS	1	
8	Drain Hose (I)	C101-143-090	PVC-S	1	
9	Pan Packing	C101-144-250	CR	1	
10	Duct Body (F2)	C102-121-270	SUS304 2B	1	Only BASF2
10-1	Duct Body (R2)	C112-121-080	SUS304 2B	1	Only BASR2
10-2	Thermostat (K55)	C111-19I-000	CCI Type, K55-Q5618	1	Only BASR2
10-3	Thermostat Bracket	C111-141-100	SUS304 2B	1	Only BASR2
10-4	Thermostat Knob	C111-132-000	ABS	1	Only BASR2
11	Side Duct (L) F2	C102-131-280	SUS304 2B	1	
12	Side Duct (R) F2	C102-131-290	SUS304 2B	1	
13	Cover Fan	0042-208-300	ABS	2	
14	Ass'y Fan Duct (F2)	C102-130-100	BASF2/BASR2	1	
15	Motor Bracket	0044-122-300	G.I, 1.6t	2	
16	Cooling Fan	0020-221-000	Zytel	2	
17	Cooling Motor	0046-631-900	IS-3225LTSA, 120V/60Hz	2	
18	Nut	7219-205-016	Stainless, M5	2	
19	Star Washer	7329-105-006	0.5t	2	
20	Clamp Tie (156)	C101-198-190	CMCT-156	1	Only BASF2
21	Lamp (40W)	C101-19N-000	120V/40W	1	

ASSEMBLY CABINET

BASF2/BASR2

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ASSEMBLY CABINET

BASF3/BASR3

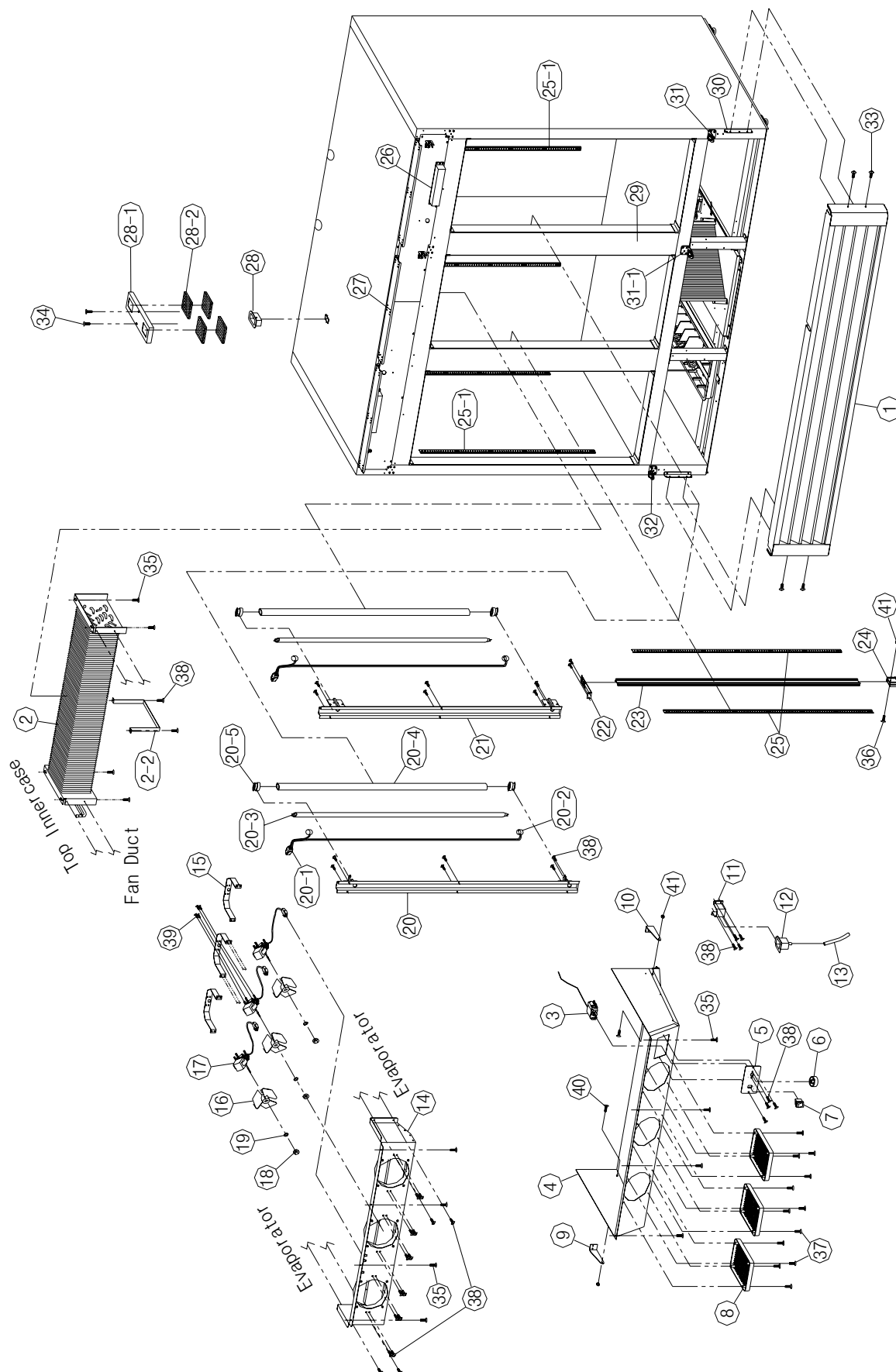
No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Lower Grille (F3)	C103-130-050	F3/R3	1	
2	Evaporator (F3)	C103-125-000	C1220TS-0,H Ø 12.7	1	Only BASF3
2-1	Sheath Heater (F3)	C103-13L-000	120V/944W	1	Only BASF3
2-2	Evaporator Fixture (F3)	C103-141-310	SUS304, 1.0t	1	
2-3	Drain Pan Heater (F3)	C103-13L-010	120V/138W	1	Only BASF3
2-4	Drain Heater (B)	C101-14L-030	120V/9W	1	Only BASF3
2-5	Bi-Metal (BASF)	C101-19I-000	115V/10A	1	Only BASF3
3	Evaporator (R3)	C113-125-000	C1220TS-0,H Ø 12.7	1	Only BASR3
4	Drain Pan (F3)	C103-131-320	AL	1	
5	Pan Adiabatic (F3)	C103-137-000	F-P-S	1	
6	Pan Guide	C101-132-090	HIPS	1	
7	Pan Cap	C101-142-080	HIPS	1	
8	Drain Hose (I)	C101-143-090	PVC-S	1	
9	Pan Packing	C101-144-250	CR	1	
10	Duct Body (F3)	C103-121-330	SUS304 2B	1	
11	Side Duct (L) F2	C102-131-280	SUS304 2B	1	
12	Side Duct (R) F2	C102-131-290	SUS304 2B	1	
13	Cover Fan	0042-208-300	ABS	3	
14	Ass'y Fan Duct (F3)	C103-130-190	BASF3/BASR3	1	
15	Motor Bracket	0044-122-300	G.I., 1.6t	3	
16	Cooling Fan	0020-221-000	Zytel	3	
17	Cooling Motor	0046-631-900	IS-3225LTSA, 120V/60Hz	3	
18	Nut	7219-205-016	Stainless, M5	3	
19	Star Washer	7329-105-006	0.5t	3	
20	Clamp Tie (156)	C101-198-190	CMCT-156	1	
21	Lamp (40W)	C101-19N-000	120V/40W	2	
22	Lamp Bracket	C101-141-540	SUS304 2B	2	
23	Lamp Socket	C101-14F-051	PS 115(E27)	2	
24	Lamp Cover	C101-132-140	PC	2	
25	Damper Cover	C102-141-390	G.I., 1.0t	2	Only BASF3
				1	Only BASR3

ASSEMBLY CABINET

BASF3/BASR3

[illegible]

4) BAGR72 (3Door)



ASSEMBLY CABINET

BAGR72

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Lower Grille (GR72)	S121-430-280	BAGR72	1	
2	Evaporator (GR72)	S121-425-000	C1220TS-0,H Ø12.7	1	
2-2	Evaporator Fixture (GR72)	S121-441-370	SUS304, 1.0t	1	
3	Thermostat (GNA-246L)	S121-491-000	GNA-246L	1	
4	Duct Body Ass'y(R72)	S121-430-240	SECC 0.6T	1	
5	Thermo Bracket Ass'y (R72)	S121-440-331	LSR-BAGR72	1	
6	Knob Thermostat	0042-210-401	ABS	1	
7	Lamp Switch	0046-637-900	SL112A, 125V/12A	1	
8	Cover Fan	0042-208-300	ABS	3	
9	Duct Hinge (L)	S121-441-000	SUS304, 2.0T	1	
10	Duct Hinge (R)	S121-441-010	SUS304, 2.0T	1	
11	SUC-pipe Cover(R72)	S121-443-090	PVC-H	1	
12	Water Collector	0041-203-000	PP 2.0T	1	
13	Drain Hose	0042-313-402	PVC-S	1	
14	Fan Duct Ass'y(R72)	S121-430-160	BAGR72	1	
15	Motor Bracket	0044-122-300	G.I, 1.6t	3	
16	Cooling Fan	0020-221-000	Zytel	3	
17	Cooling Motor	0046-631-900	IS-3225LTSA, 120V/60Hz	3	
18	Nut	7219-205-016	Stainless, M5	3	
19	Star Washer	7329-105-006	0.5t	3	
20	Lamp Base Ass'y (L)	S121-430-201	BAGR72	1	
20-1	Lamp Wire (Top-GR72))	S121-44F-060	UL1015	2	
20-2	Lamp Wire (Bottom-GR72))	S121-44F-050	UL1015	2	
20-3	Lamp(32W)	S104-14N-000	FHF32SSEX-D-5, Ø26	2	
20-4	Tube Lamp (B)	0046-317-400	PVC Mix, L=1153	2	
20-5	Cap-Lamp	0040-201-000	PVC(Soft)	4	
21	Lamp Base Ass'y (R)	S121-430-211	BAGR72	1	
22	Support Fixture Bracket	S121-441-300	SUS304 2B, 0.8T	2	
23	Support Shelf Rack (Front)	S121-443-100	A6063S-T5, L=1367	2	
24	Support Fixture (R72)	S121-432-030	PA6	2	

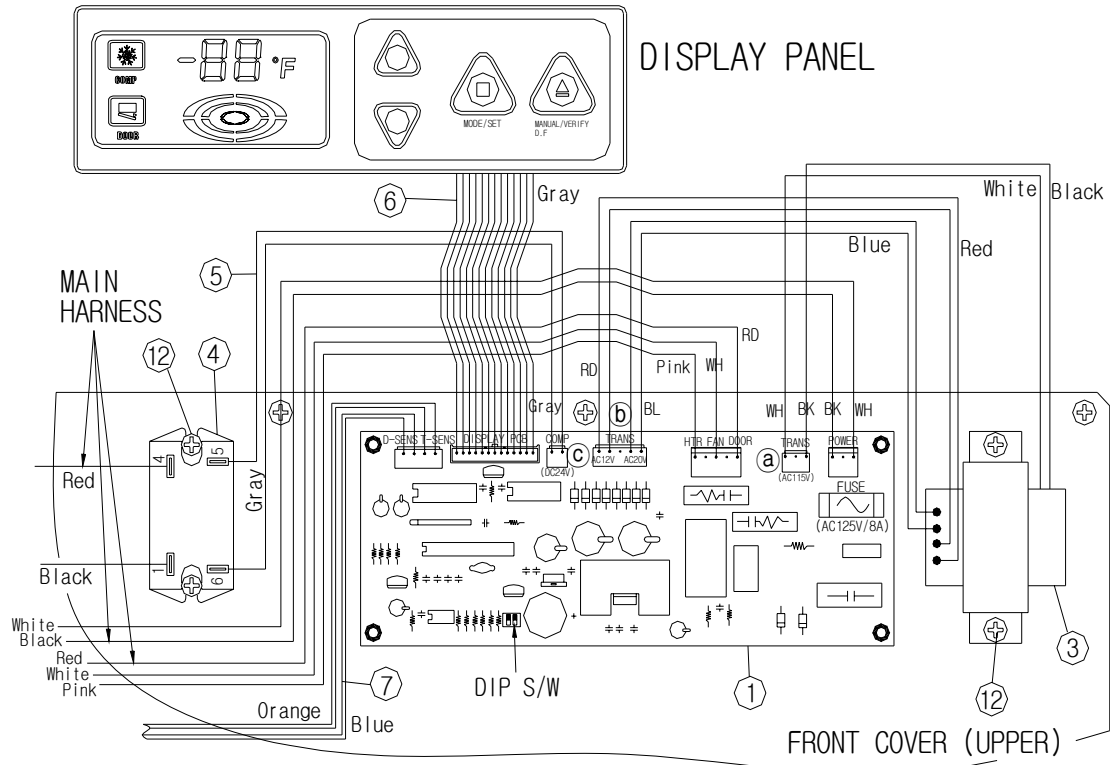
ASSEMBLY CABINET

BAGR72

No.	Part Name	Part Number	Description	Q'ty	Remark
25	Pilaster (Shelf Support)-Solid	C101-132-200	A6063S-T5	4	
25-1	Pilaster (Shelf Support)-R/L	0043-113-300	A6063S-T5	8	
26	ballast (2-32W)	S121-49C-000	DY232 IS120 (For 2 Lamp)	2	
27	Ad. Panel Bracket (R72)	S121-431-230	SGCC 1.2T	3	
28	Ass'y Damper	C101-130-190		1	
28-1	Damper Cover	C102-141-390	G.I, 1.0t	1	
28-2	Damper Filter	C101-144-200	Foam, 6t	4	
29	Center Post Ass'y(R72)	S121-490-170	BAGR72	2	
30	Lower Grille Fixture	C101-141-341	G.I, 2.0t	2	
31	Ass'y Door Hinge (Low-R)-R	S140-630-180	LSR-FH400	1	
31-1	Ass'y Door Hinge (Low-C)-R	S121-430-021	BAGR72	1	
32	Ass'y Door Hinge (Low-L)_R	S121-430-041	BAGR72	1	
33	Thin Screw (B)	S103-148-191	S20C, Cr	4	
34	Tapping Screw (TH1)	7129-140-251	4*25 (Zn)	2	
35	Machine Screw (TH)	7029-140-106	M4*10 (STS304)	11	
36	Machine Screw (TH)	7029-140-166	M4*16 (STS304)	2	
37	Machine Screw (TH)	7029-140-306	M4*30 (STS304)	12	
38	Tapping Screw (TH1)	7129-140-106	4*10 (STS304)	86	
39	Machine Screw (PH)	7069-140-101	M4*10 (Zn)	12	
40	One Touch Screw	S121-444-140	M4 (STS304)	2	
41	Cap Nut	S121-494-130	M4 (STS304)	2	

3. TOP GRILLE

1) BASF1/BASF2 (FREEZER)



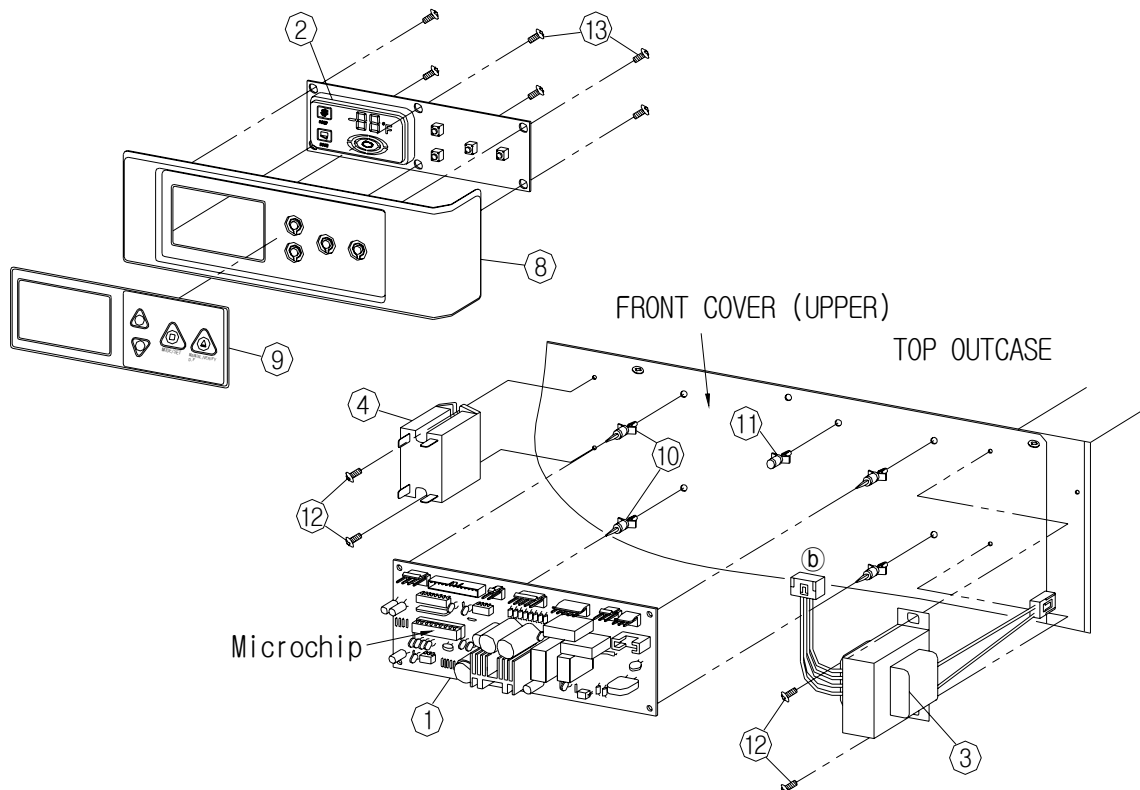
※ Check Point (When power is connected)

① Housing "a" of main pcb (power input) : AC115V

② Red wire of trans output : AC12V
Blue wire of trans output : AC20V

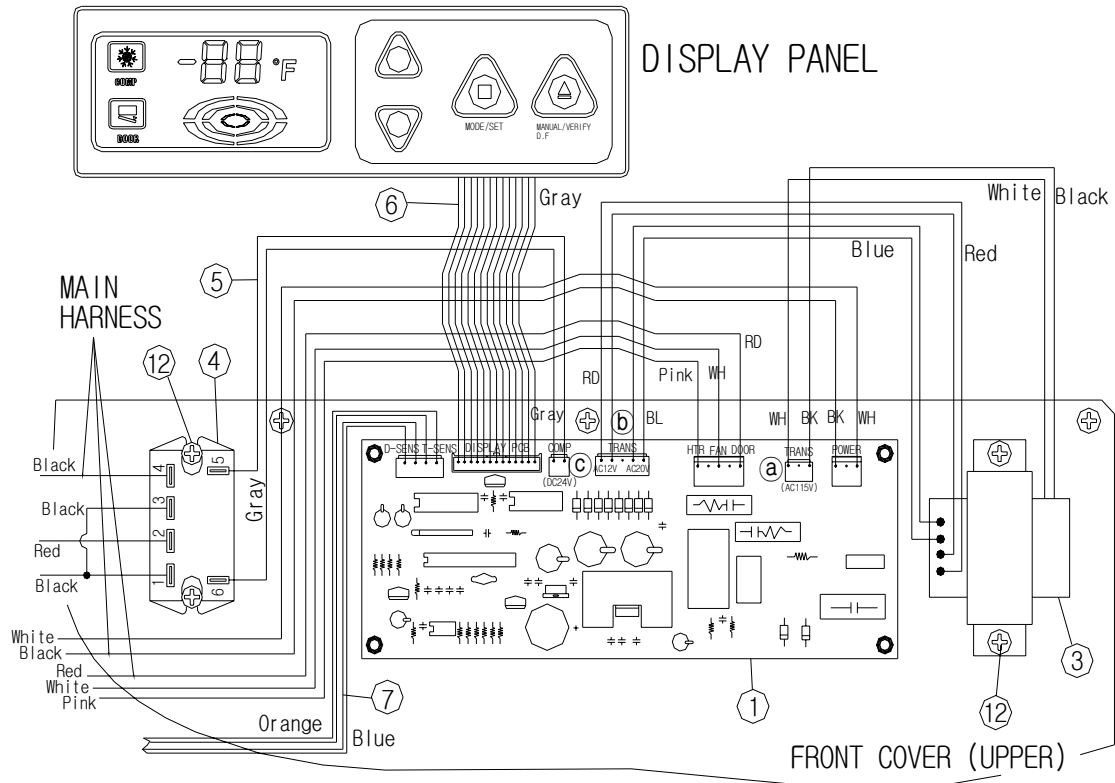
③ Housing "c" of main pcb (Dc relay power input) : DC24V

※ If the dip s/w is existed, the dip s/w must be upward. (#1,#2 s/w)



[illegible][illegible][illegible]

2) BASF3 (FREEZER)

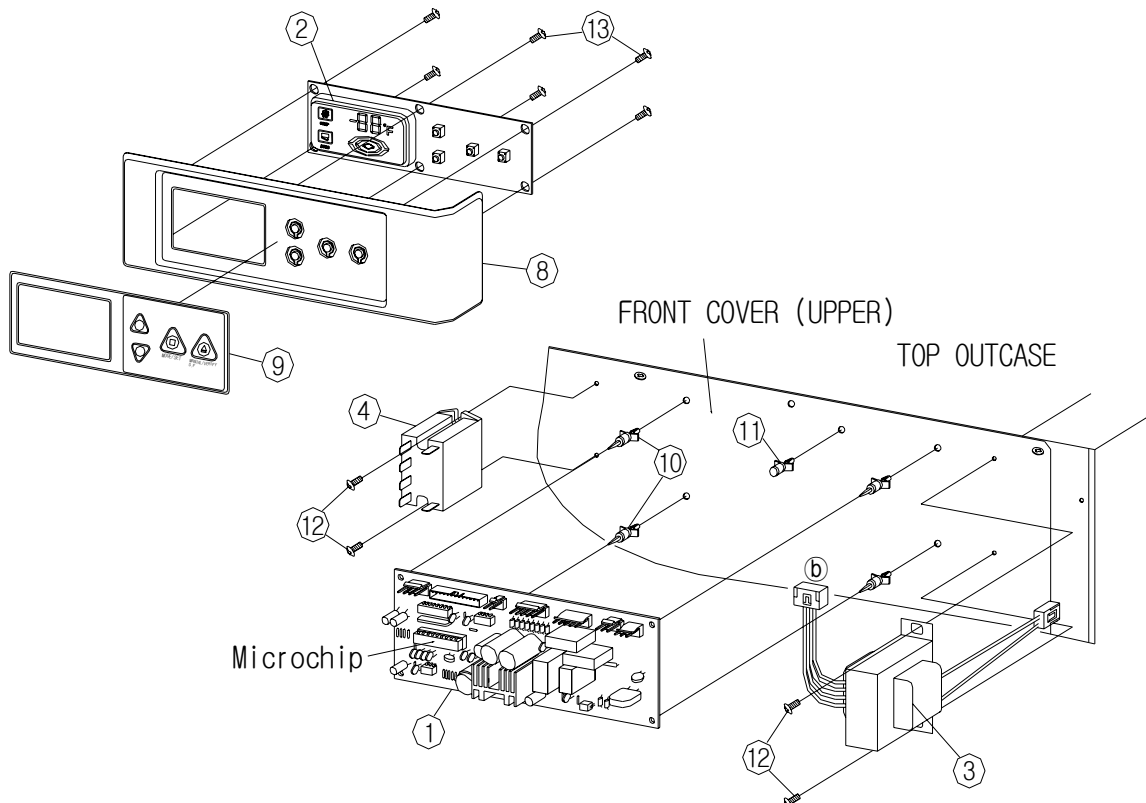


※ Check Point (When power is connected)

① Housing "a" of main pcb (power input) : AC115V

② Red wire of trans output : AC12V
Blue wire of trans output : AC20V

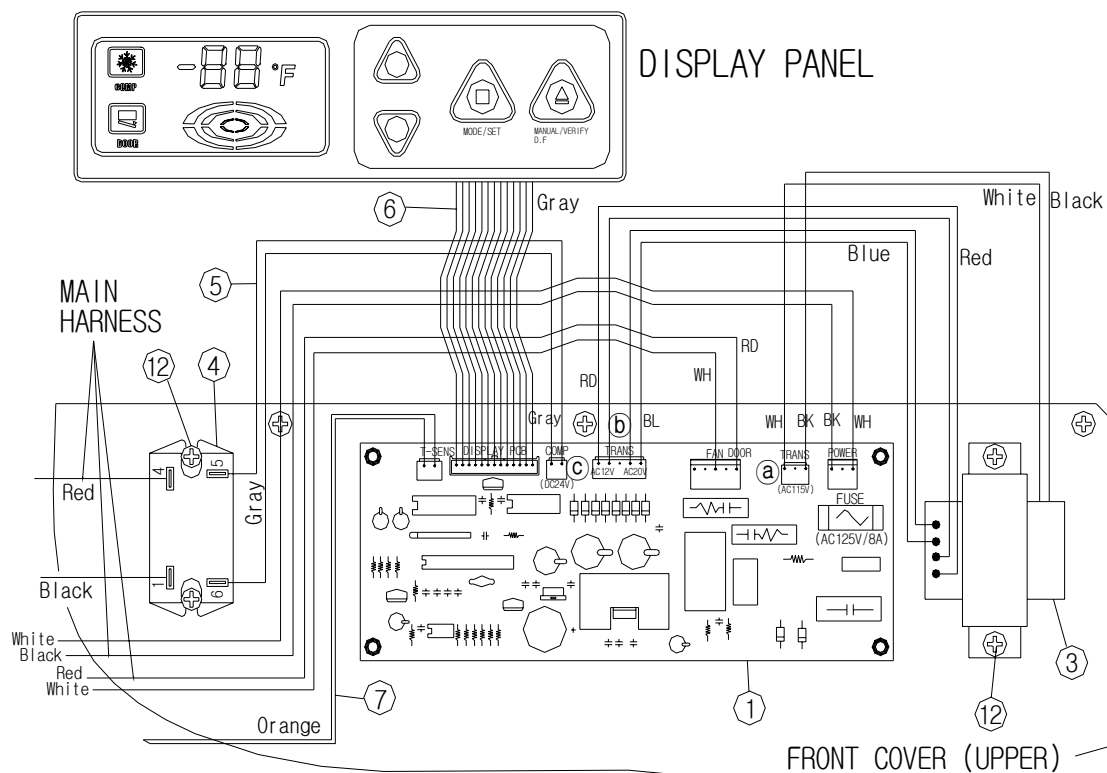
③ Housing "c" of main pcb (Dc relay power input) : DC24V



BASF3

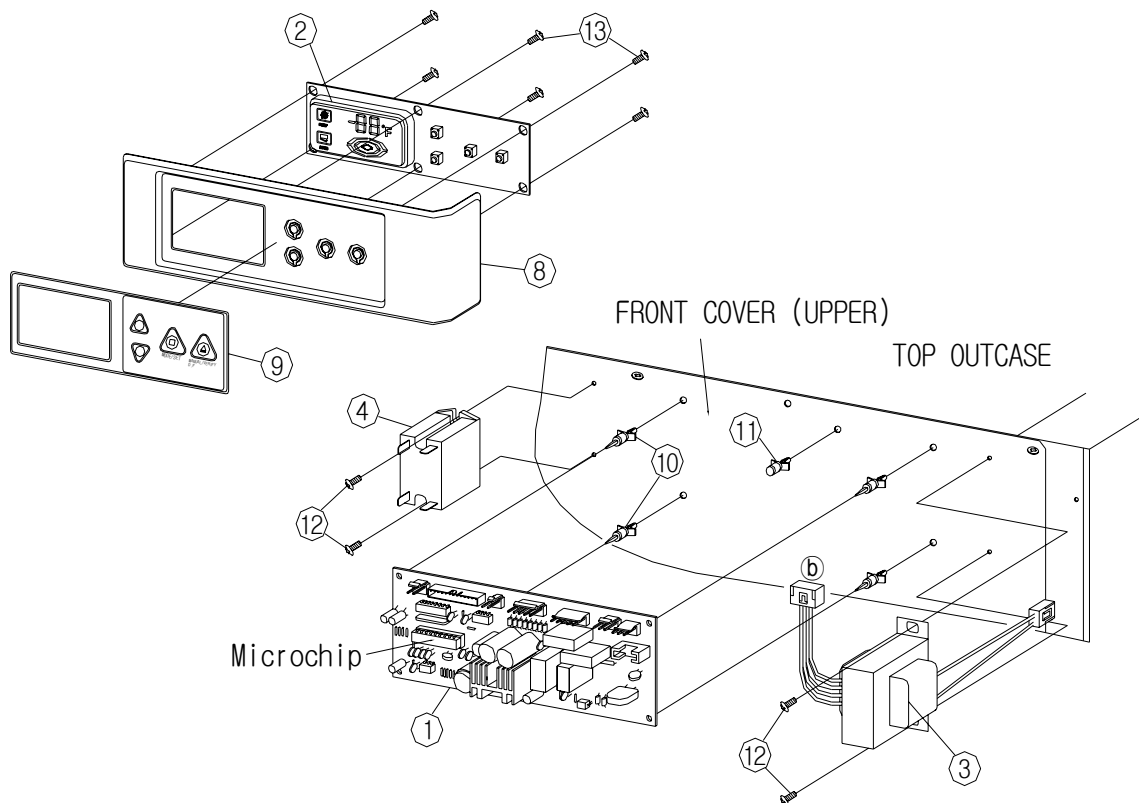
–31–

3) BASR3 (REFRIGERATOR)



※ Check Point (When power is connected)

- ① Housing "a" of main pcb (power input) : AC115V
- ② Red wire of trans output : AC12V
- ③ Blue wire of trans output : AC20V
- ④ Housing "c" of main pcb (Dc relay power input) : DC24V



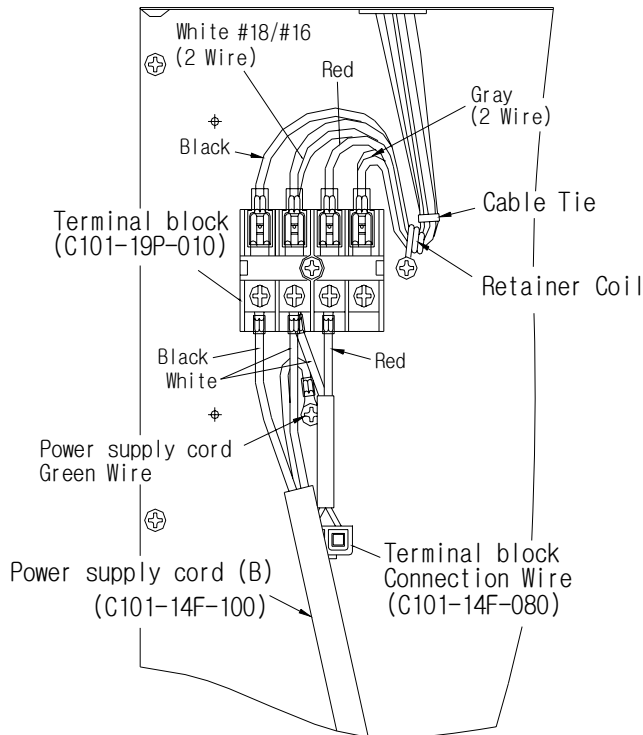
TOP GRILLE

BASR3

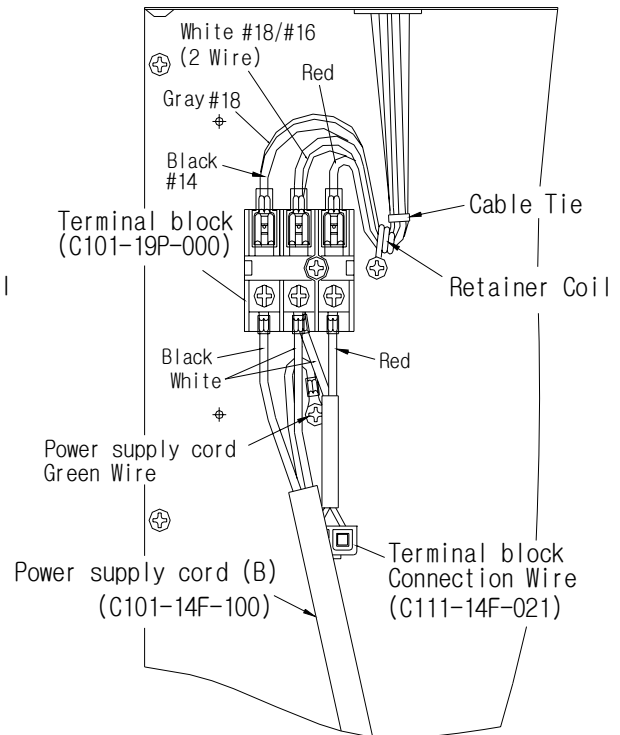
[illegible]

4. TERMINAL BLOCK

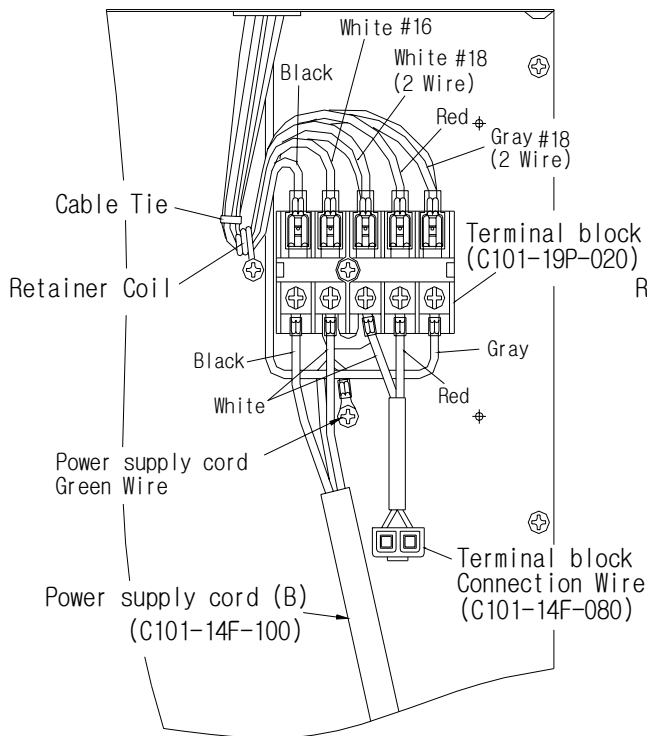
1) BASF1/BASF2/BASR1/BASR2



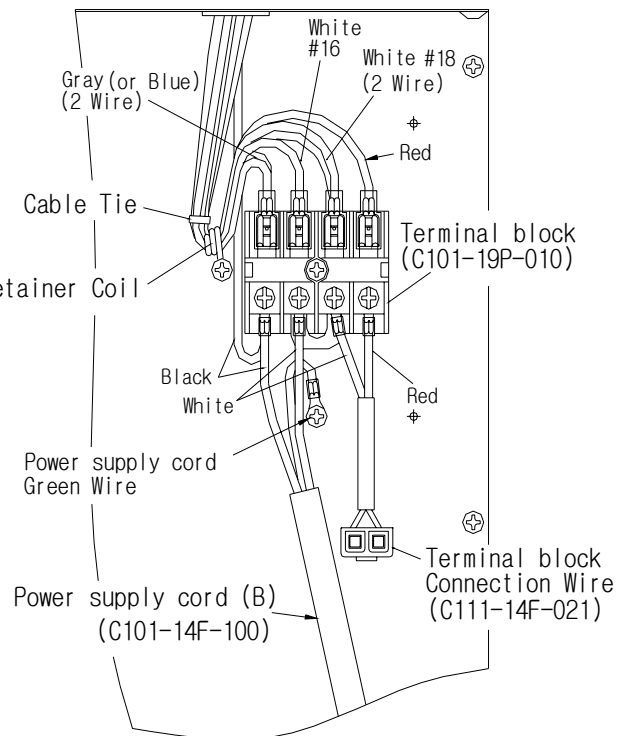
Terminal block wiring (BASF1)



Terminal block wiring (BASR1)

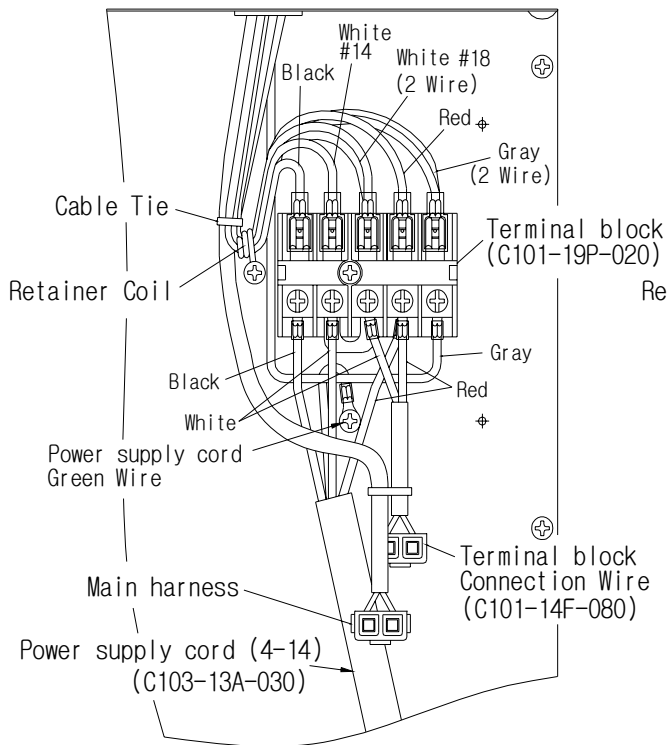


Terminal block wiring (BASF2)

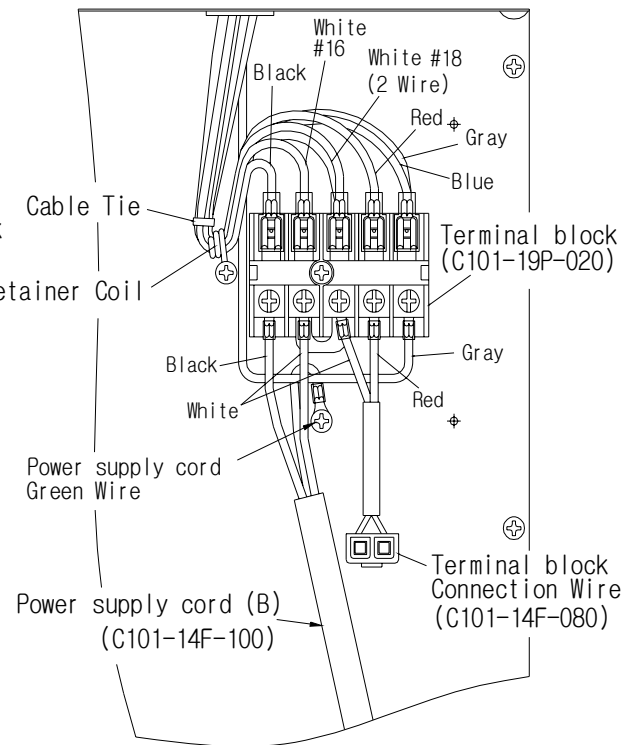


Terminal block wiring (BASR2)

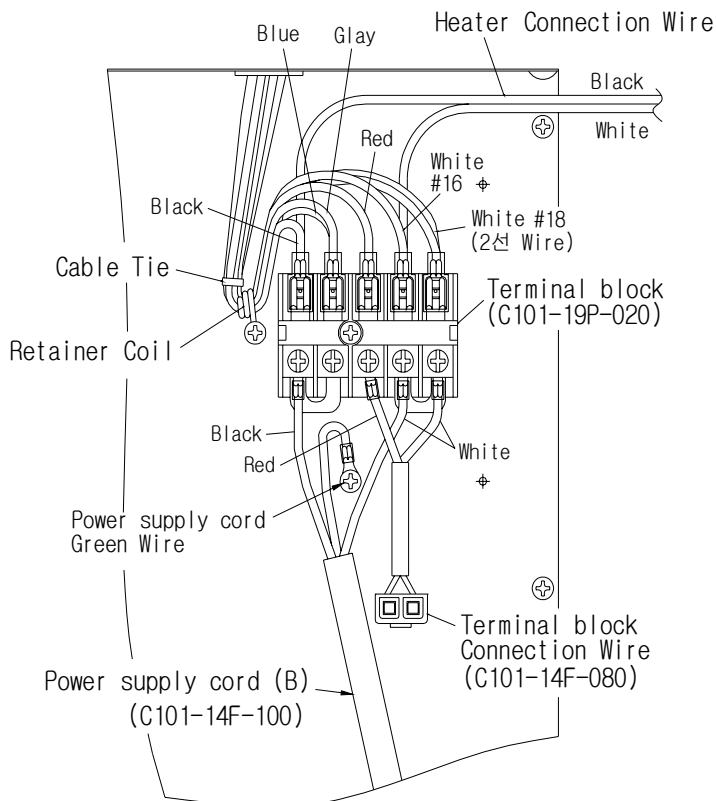
2) BASF3/BASR3/BAGR72



Terminal block wiring (BASF3)

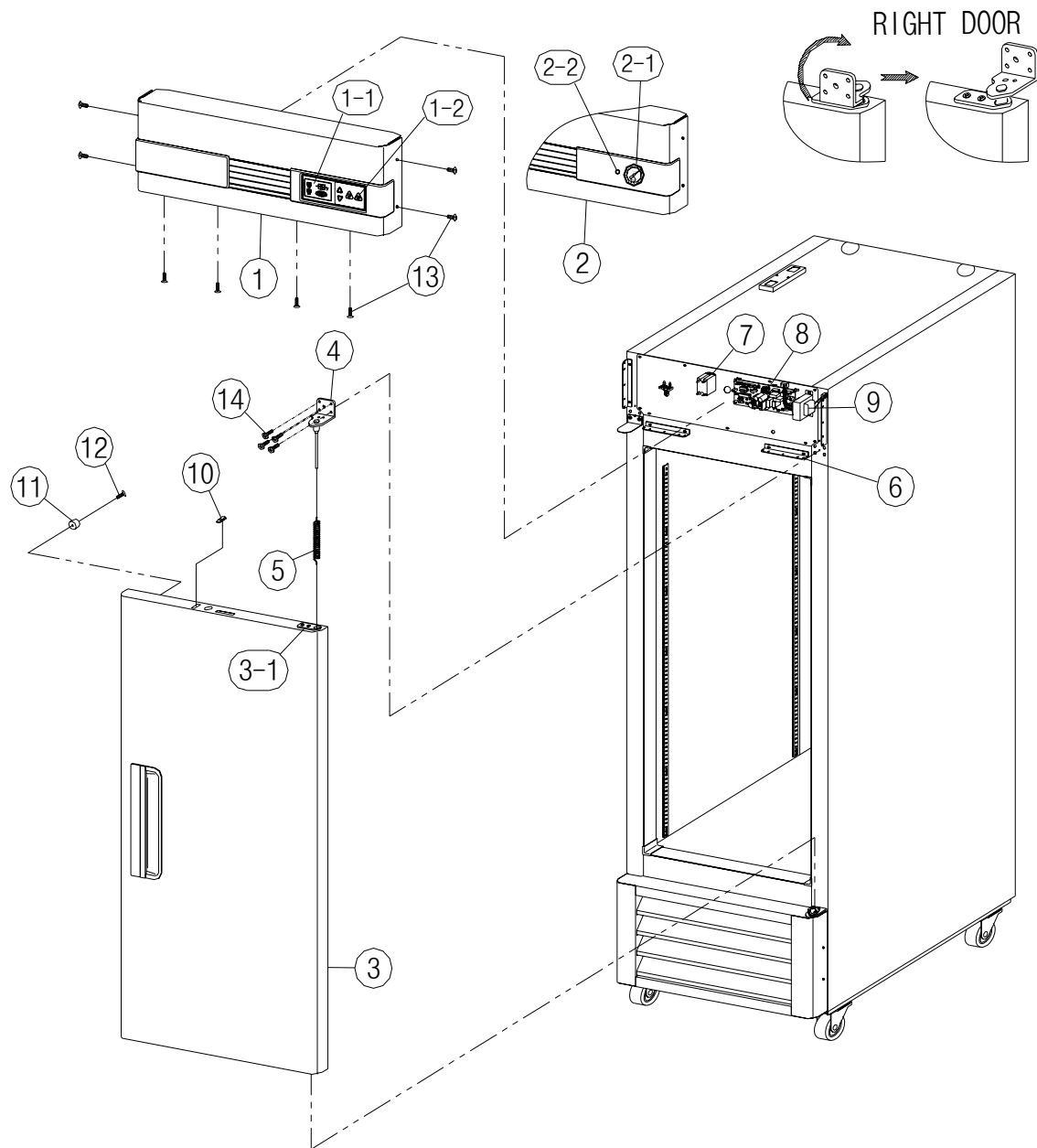


Terminal block wiring (BASR3)



Terminal block wiring (BAGR72)

1) BASF1/BASR1 (1Door)

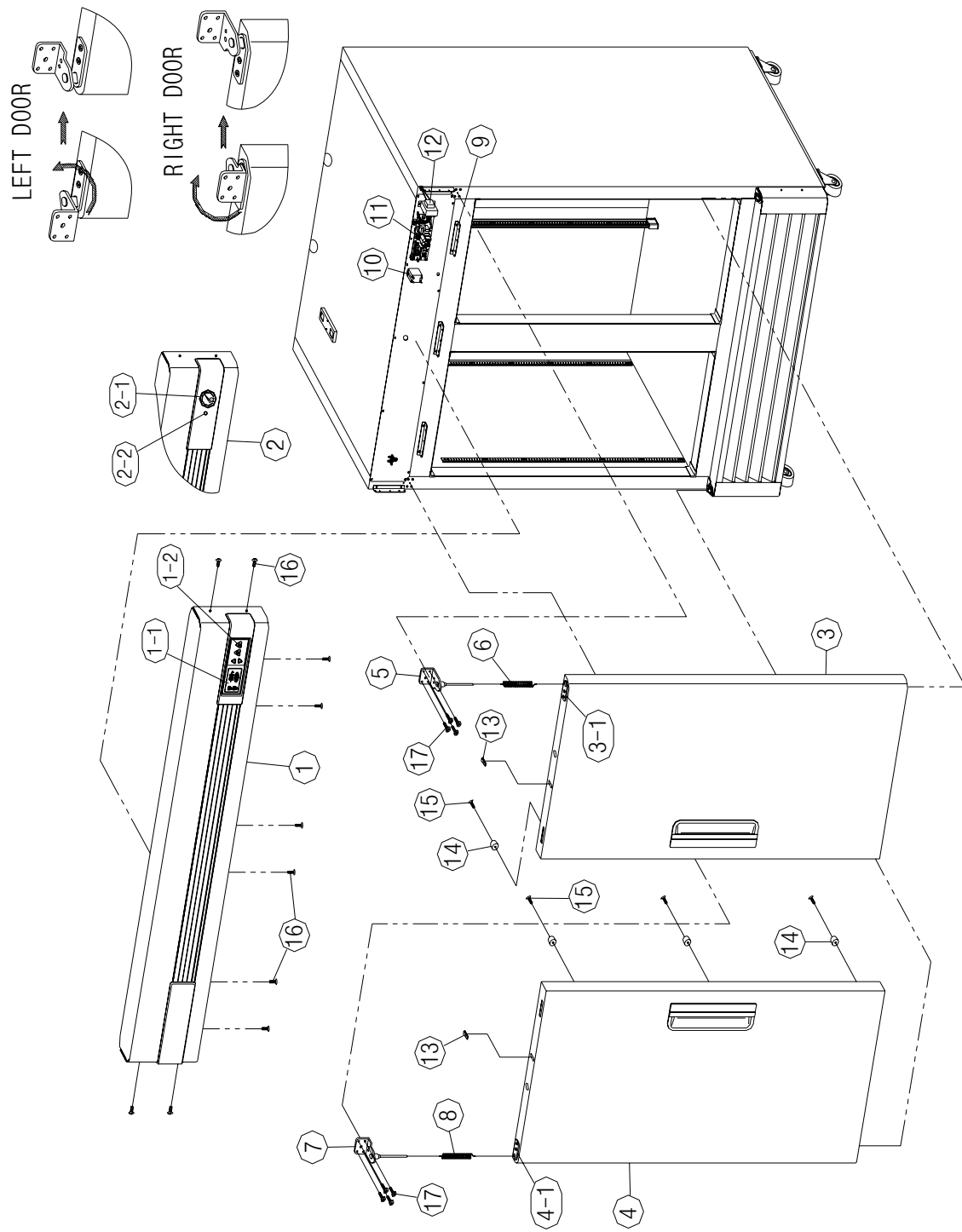


ASSEMBLY OUTCABINET BASF1/BASR1

ASSEMBLY OUTCABINET BASF1/BASR1

[illegible]

2) BASF2/BASR2 (2Door)

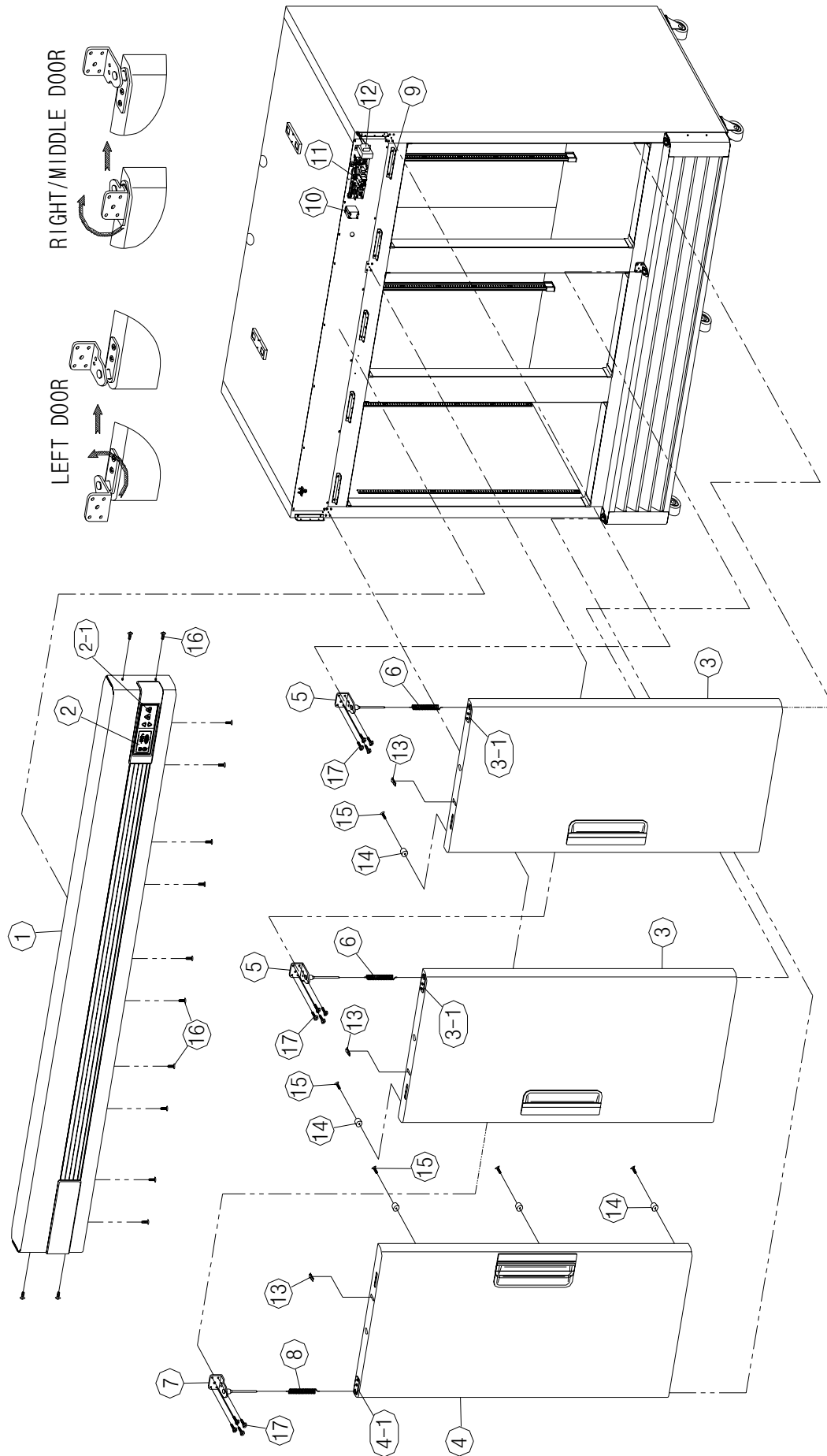


ASSEMBLY OUTCABINET

BASF2/BASR2

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Top Grille (F2)	C102-120-205	BASF2	1	Only BASF2
1-1	Front PCB Ass'y	C101-19A-000	BASF1/BASF2	1	Only BASF2
1-2	Display Panel Sticker	C101-136-040	PC 0.3T	1	Only BASF2
2	Ass'y Top Grille (R2)	C112-120-134	BASR1	1	Only BASR2
2-1	Circular Thermometer	C111-198-000	MILJOC0, V20462102-48	1	Only BASR2
2-2	Indicator Lamp (F-2C)	C111-19N-000	NEON, 125V(GREEN)	1	Only BASR2
3	Door Ass'y (F2-R)	C102-190-122	BASF2/BASR2	1	
3-1	Torsion Spring Guide	C101-132-000	ZNDC2, Die casting	1	
4	Door Ass'y (F2-L)	C102-190-112	BASF2/BASR2	1	
4-1	Torsion Spring Guide	C101-132-000	ZNDC2, Die casting	1	
5	Ass'y Door Hinge (Up-R)	C101-130-000	BASF1,2/BASR1,2	1	
6	Torsion Coiled Spring (R)	C101-144-021	PW2, Zn Galvanizing	1	Yellow
7	Ass'y Door Hinge (Up-L)	C102-130-020	BASF2/BASR2	1	
8	Torsion Coiled Spring (L)	C101-144-031	PW2, Zn Galvanizing	1	White
9	Lower Grille Fixture	C101-141-341	G.I, 2.0t	5	
10	DC Relay	C101-19M-010	NAIS, HE1aN-Q-DC24V	1	Only BASF2
11	Control PCB Ass'y-BASF	C101-19A-011	BASF1/BASF2	1	Only BASF2
12	Main Trans (BASF)	C101-19K-000	AC115V	1	Only BASF2
13	Door Switch Support	C101-142-210	ABS	2	
14	Door Stopper	C101-142-180	NR, H:13	6	
15	Tapping Screw (TH1)	7129-140-154	4*15 (Cr)	6	
16	Thin Screw (B)	S103-148-191	S20C, Cr	10	
17	HEX BOLT (M5×20)	7079-150-201	M5×20	8	

3) BASF3/BASR3 (3Door)

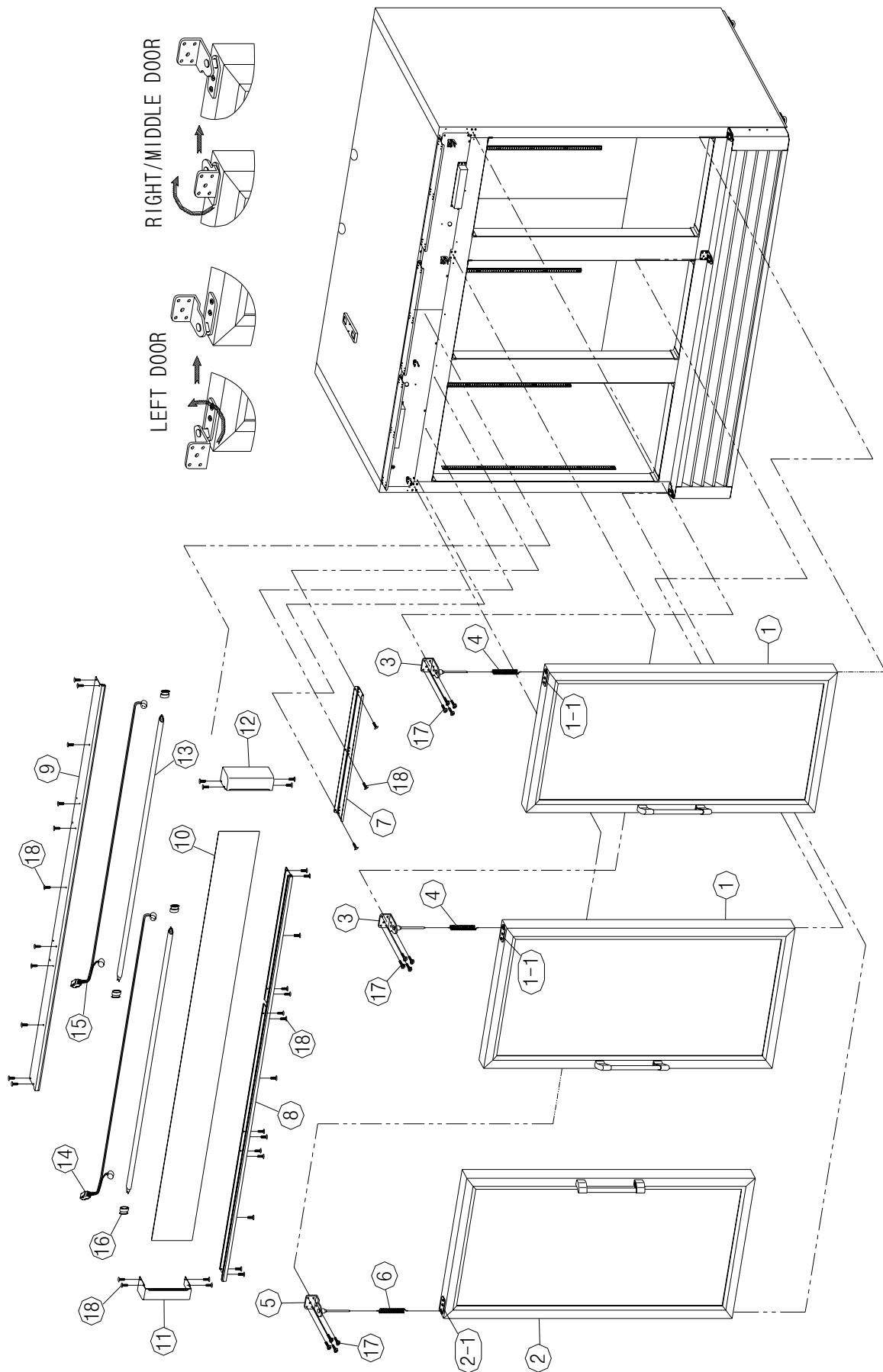


ASSEMBLY OUTCABINET

BASF3/BASR3

No.	Part Name	Part Number	Description	Q'ty	Remark
1	Ass'y Top Grille (F3)	C103-120-040	BASF3/BASR3	1	
2	Front PCB Ass'y	C101-19A-000		1	
2-1	Display Panel Sticker	C101-136-040	PC 0.3T	1	
3	Door Ass'y (F3-R)	C103-190-030	BASF3/BASR3	2	
3-1	Torsion Spring Guide	C101-132-000	ZNDC2, Die casting	2	
4	Door Ass'y (F3-L)	C103-190-020	BASF3/BASR3	1	
4-1	Torsion Spring Guide	C101-132-000	ZNDC2, Die casting	1	
5	Ass'y Door Hinge (Up-R)	C101-130-000	BASF1,2/BASR1,2	2	
6	Torsion Coiled Spring (R)	C101-144-021	PW2, Zn Galvanizing	2	Yellow
7	Ass'y Door Hinge (Up-L)	C102-130-020	BASF2/BASR2	1	
8	Torsion Coiled Spring (L)	C101-144-031	PW2, Zn Galvanizing	1	White
9	Lower Grille Fixture	C101-141-341	G.I., 2.0t	7	
10	DC Relay (2P)	C103-19M-000	NAIS, HE2aN-Q-DC24V	1	Only BASF3
	DC Relay	C101-19M-010	NAIS, HE1aN-Q-DC24V	1	Only BASR3
11	Control PCB Ass'y-BASF3	C103-19A-000	BASF3	1	Only BASF3
	Control PCB Ass'y-BASR3	C113-19A-000	BASR3	1	Only BASR3
12	Main Trans (BASF)	C101-19K-000	AC115V	1	
13	Door Switch Support	C101-142-210	ABS	3	
14	Door Stopper	C101-142-180	NR, H:13	9	
15	Tapping Screw (TH1)	7129-140-154	4*15 (Cr)	9	
16	Thin Screw (B)	S103-148-191	S20C, Cr	14	
17	HEX BOLT (M5×20)	7079-150-201	M5×20	12	

4) BAGR72 (GLASS 3Door)



ASSEMBLY OUTCABINET

BAGR72

[illegible]

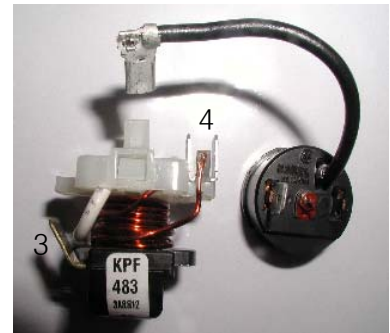
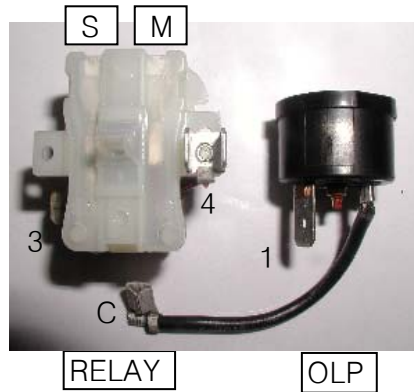
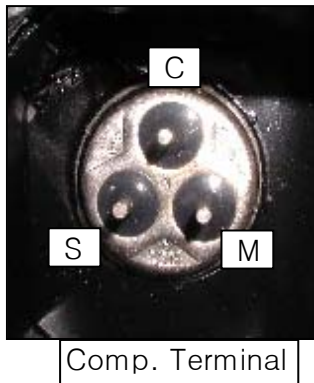
■ MODEL : BASF1/BASF2/BASF3(FREEZER) BASR1/BASR2/BASR3(REFRIGERATOR)
BAGR72 (REACH-IN MERCHANDISERS)

D. COMPRESSOR & ACCESSORIES CHECK LIST

1. BASF1 (FREEZER 1DOOR)	- - - - -	3
2. BASF2 (FREEZER 2DOOR)	- - - - -	4
3. BASF3 (FREEZER 3DOOR)	- - - - -	5
4. BASR1/BASR2 (REFRIGERATOR 1,2DOOR)	- - - - -	6
5. BASR3 (REFRIGERATOR 3DOOR)	- - - - -	7
6. BAGR72 (REACH-IN MERCHANDISERS 3DOOR)	- - - - -	8

1. BASF1 (FREEZER 1DOOR)

- ① Compressor Spec. : CAE2420Z(A) (R404a), 115V/60Hz, CSIR Type
- ② Maker : TECUMSEH-FRANCE
- ③ Cooling Capacity : 572Kcal/Hr – LBP
- ④ Starting Capacitor Spec. : 315 μ F / 160V
- ⑤ Relay Spec. : 3ARR12KPF*483
- ⑥ O.L.P Spec. : MST16AHN



* Comp. Winding Resistance :

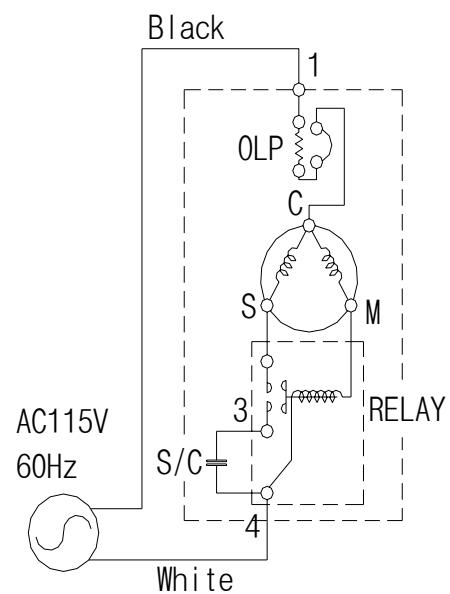
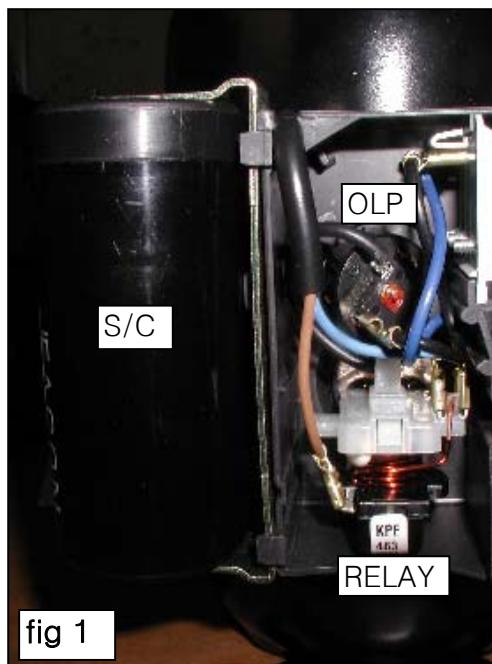
C – M $\rightarrow$ 0.8 Ω , C – S $\rightarrow$ 3.1 Ω (RT 68°F)

* O.L.P Winding Resistance : 1 – C $\rightarrow$ 0 Ω (OK), ∞ Ω (NG)

* Relay Winding Resistance : M – 4 $\rightarrow$ 0 Ω (OK), ∞ Ω (NG)

S – 3 $\rightarrow$ ∞ Ω (OK)

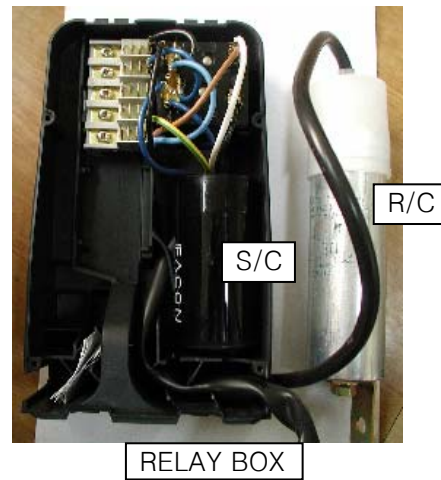
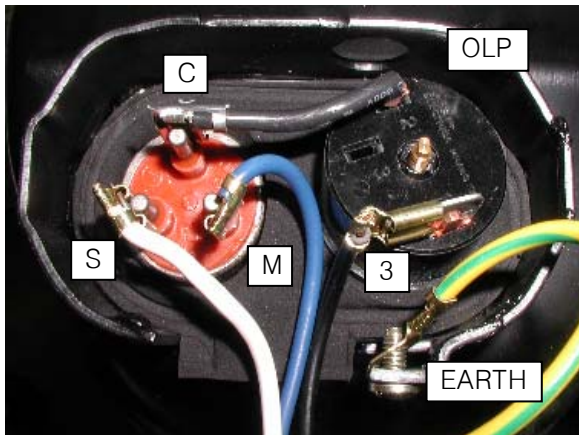
* Measuring the resistance, the bottom of the relay must be downward(like fig1)



(COMP. WIRING DIAGRAM)

2. BASF2 (FREEZER 2DOOR)

- ① Compressor Spec. : CAJ2432Z(A) (R404a), 115V/60Hz, CSR Type
- ② Maker : TECUMSEH-FRANCE
- ③ Cooling Capacity : 807Kcal/Hr – LBP
- ④ Starting Capacitor Spec. : $315\mu\text{F}$ / 160V
- ⑤ Running Capacitor Spec. : $30\mu\text{F}$ / 400V
- ⑥ Relay Spec. : 3ARR3*5R*
- ⑦ O.L.P Spec. : GA3PJU00

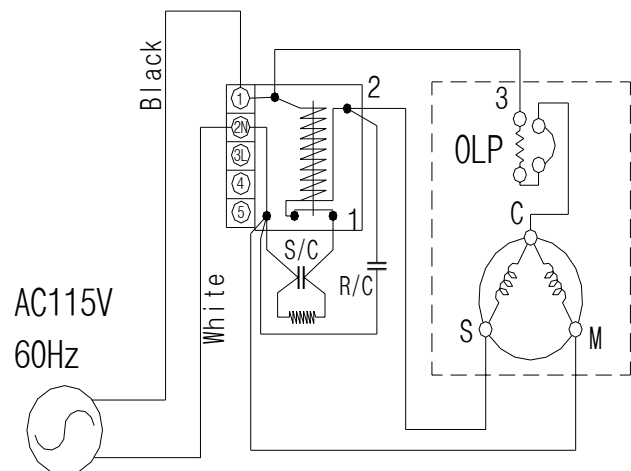
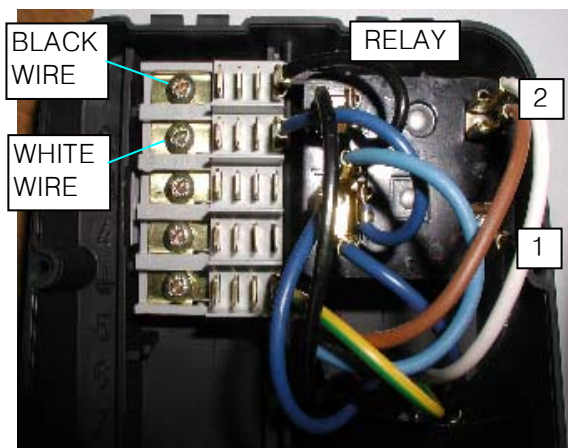


* Comp. Winding Resistance :

C – M $\rightarrow 0.56\Omega$, C – S $\rightarrow 3.67\Omega$ (RT 68°F)

* O.L.P Winding Resistance : 3 – C $\rightarrow 0\Omega$ (OK), $\infty\Omega$ (NG)

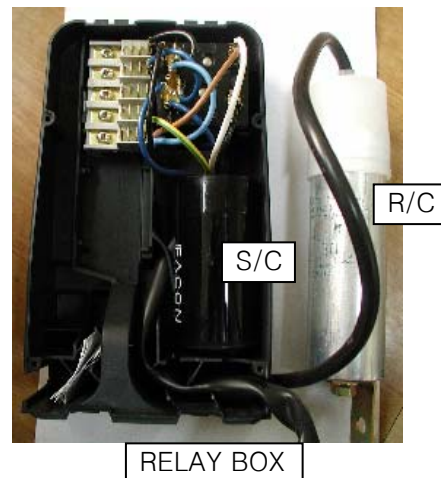
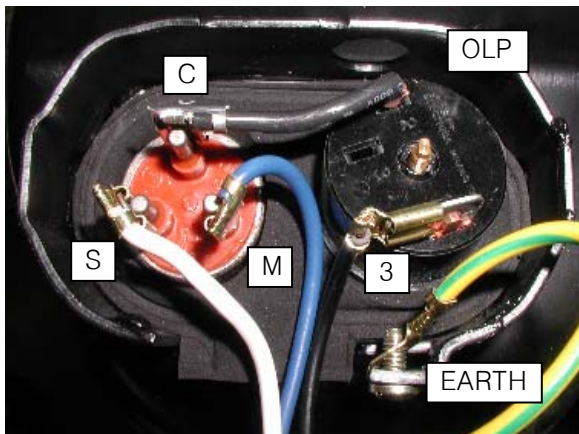
* Relay Winding Resistance : 1 – 2 $\rightarrow 0\Omega$ (OK), $\infty\Omega$ (NG)



(COMP. WIRING DIAGRAM)

3. BASF3 (FREEZER 3DOOR)

- ① Compressor Spec. : CAJ2446Z(H) (R404a), 220V/60Hz, CSR Type
- ② Maker : TECUMSEH-FRANCE
- ③ Cooling Capacity : 1,219Kcal/Hr – LBP
- ④ Starting Capacitor Spec. : $88\mu\text{F}$ / 260V
- ⑤ Running Capacitor Spec. : $15\mu\text{F}$ / 400V
- ⑥ Relay Spec. : 3ARR3*3A*
- ⑦ O.L.P Spec. : MST00AHN

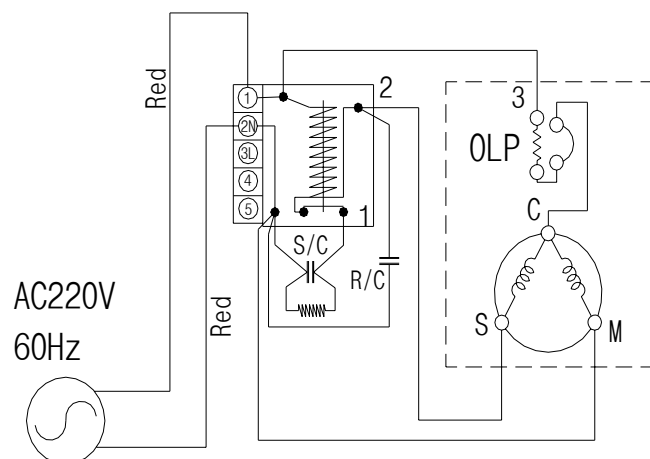
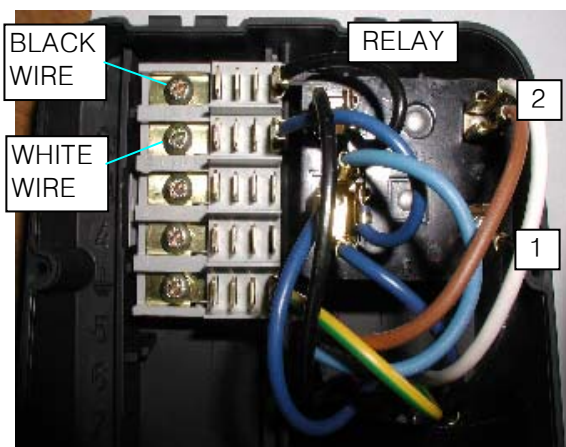


* Comp. Winding Resistance :

C – M $\rightarrow$ 1.16Ω , C – S $\rightarrow$ 8.14Ω (RT 68°F)

* O.L.P Winding Resistance : 3 – C $\rightarrow$ 0Ω (OK), $\infty\Omega$ (NG)

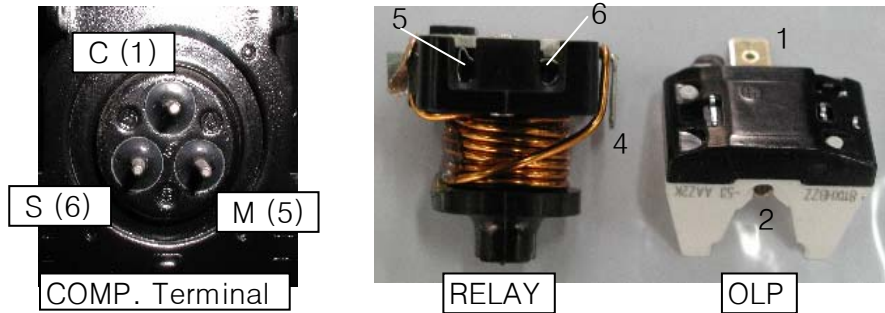
* Relay Winding Resistance : 1 – 2 $\rightarrow$ 0Ω (OK), $\infty\Omega$ (NG)



(COMP. WIRING DIAGRAM)

4. BASR1/BASR2 (REFRIGERATOR 1,2DOOR)

- ① Compressor Spec. : SK6A1C-H2Y (R134a), 115V/60Hz, RSIR Type
- ② Maker : SAMSUNG-KOREA
- ③ Cooling Capacity : 1,080Kcal/Hr – HBP
- ④ Relay Spec. : MTRP0052-02
- ⑤ O.L.P Spec. : 4TM 811XHBZZ-53



* Comp. Winding Resistance :

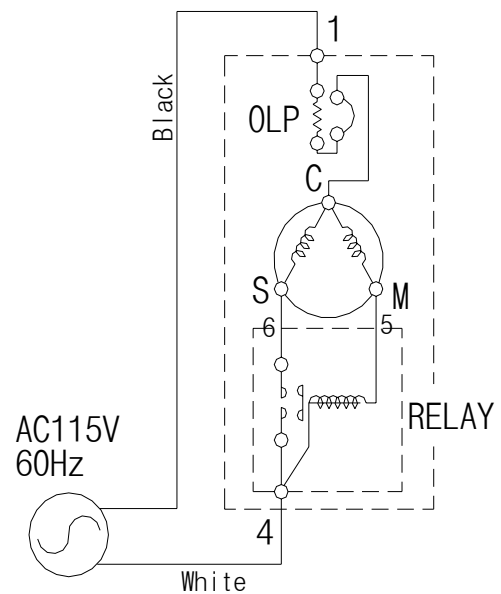
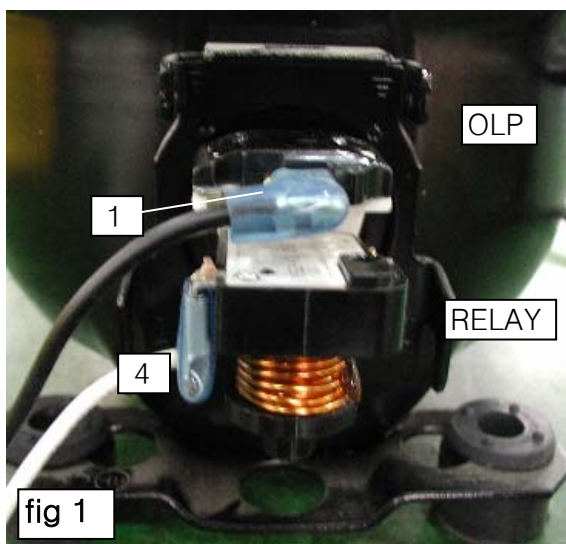
C – M → 1.03Ω, C – S → 7.5Ω (RT 77°F)

* O.L.P Winding Resistance : 1 – 2 → 0 Ω (OK), ∞ Ω (NG)

* Relay Winding Resistance : M(5) – 4 → 0 Ω (OK), ∞ Ω (NG)

S(6) – 4 → ∞ Ω (OK)

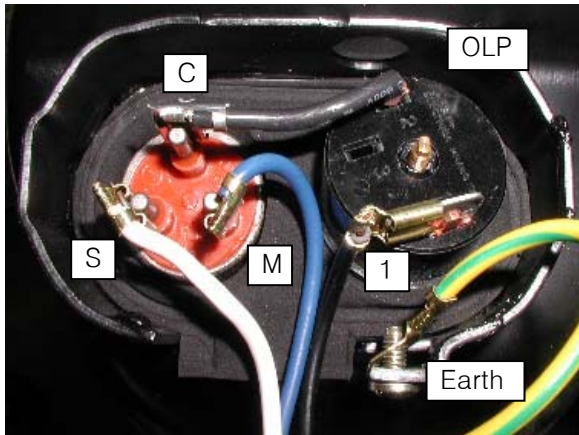
* Measuring the resistance, the bottom of the relay must be downward (like fig1)



(COMP. WIRING DIAGRAM)

5. BASR3 (REFRIGERATOR 3DOOR)

- ① Compressor Spec. : CAJ4461Y(A) (R134a), 115V/60Hz, CSIR Type
- ② Maker : TECUMSEH-FRANCE
- ③ Cooling Capacity : 1,586Kcal/Hr – HBP
- ④ Starting Capacitor Spec. : 250 μ F / 160V
- ⑤ Relay Spec. : 3ARR18A100B
- ⑥ O.L.P Spec. : GA3SJU81 or CRA38016



* Comp. Winding Resistance :

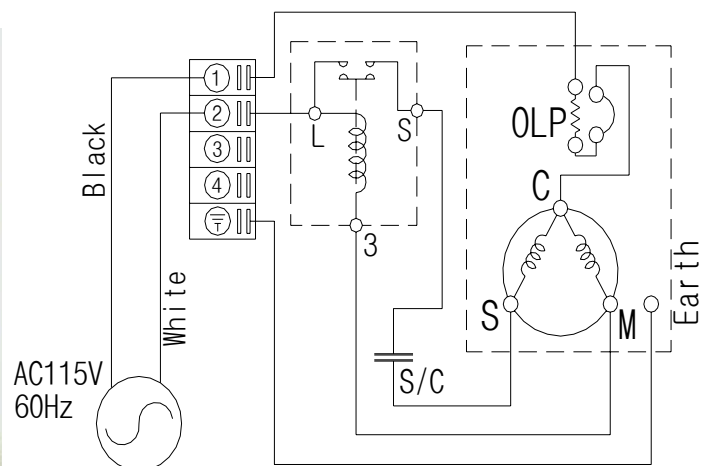
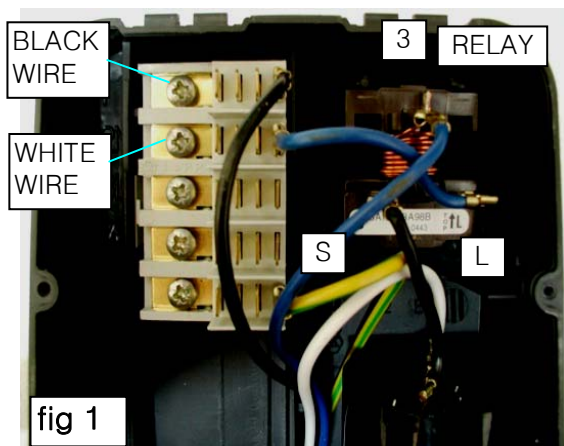
C – M $\rightarrow$ 0.7 Ω , C – S $\rightarrow$ 4.5 Ω (RT 68°F)

* O.L.P Winding Resistance : 1 – C $\rightarrow$ 0 Ω (OK), ∞ Ω (NG)

* Relay Winding Resistance : L – 3 $\rightarrow$ 0 Ω (OK), ∞ Ω (NG)

L – S $\rightarrow$ ∞ Ω (OK)

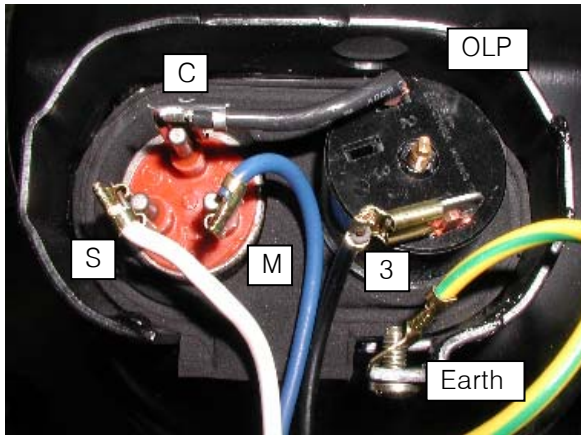
* Measuring the resistance, the bottom of the relay must be downward (like fig1)



(COMP. WIRING DIAGRAM)

6. BAGR72 (REACH-IN MERCHANDISERS 3DOOR)

- ① Compressor Spec. : CAJ4476Y(A) (R134a), 115V/60Hz, CSIR Type
- ② Maker : TECUMSEH-FRANCE
- ③ Cooling Capacity : 1,946Kcal/Hr – HBP
- ④ Starting Capacitor Spec. : 250 μ F / 160V
- ⑤ Relay Spec. : 3ARR3*2M*
- ⑥ O.L.P Spec. : CRA38014

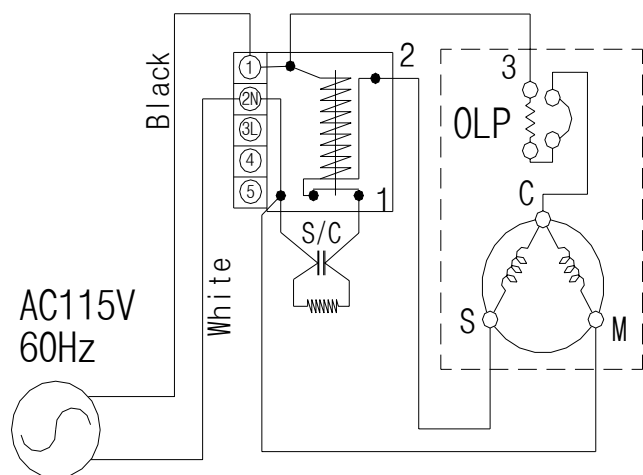
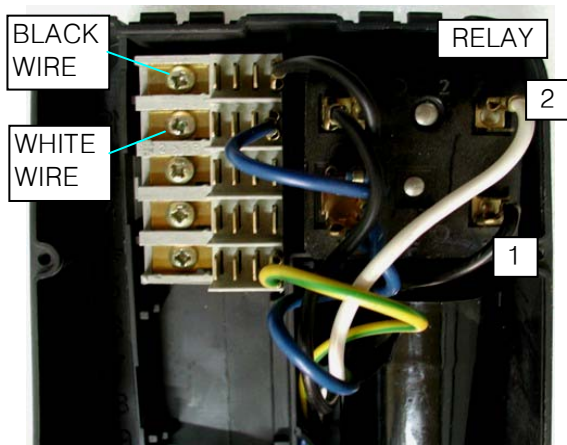


* Comp. Winding Resistance :

C – M $\rightarrow$ 0.72 Ω , C – S $\rightarrow$ 3.68 Ω (RT 68°F)

* O.L.P Winding Resistance : 3 – C $\rightarrow$ 0 Ω (OK), ∞ Ω (NG)

* Relay Winding Resistance : 1 – 2 $\rightarrow$ 0 Ω (OK), ∞ Ω (NG)



(COMP. WIRING DIAGRAM)