REFRIGERATOR MANUFACTURER

Turbo air

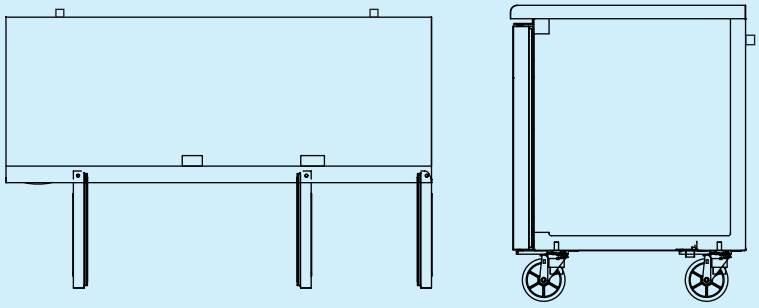
Turbo Air Speed up the Pace of Innovation

CAUTION!
PLEASE KEEP POWER
SWITCH ON BEFORE
OPERATING THIS EQUIPMENT

Undercounter Refrigerator Service Manual

Please read this manual completely before attempting to install or operate this equipment!

JUR-36
JUR-48
JUR-60
JUR-72



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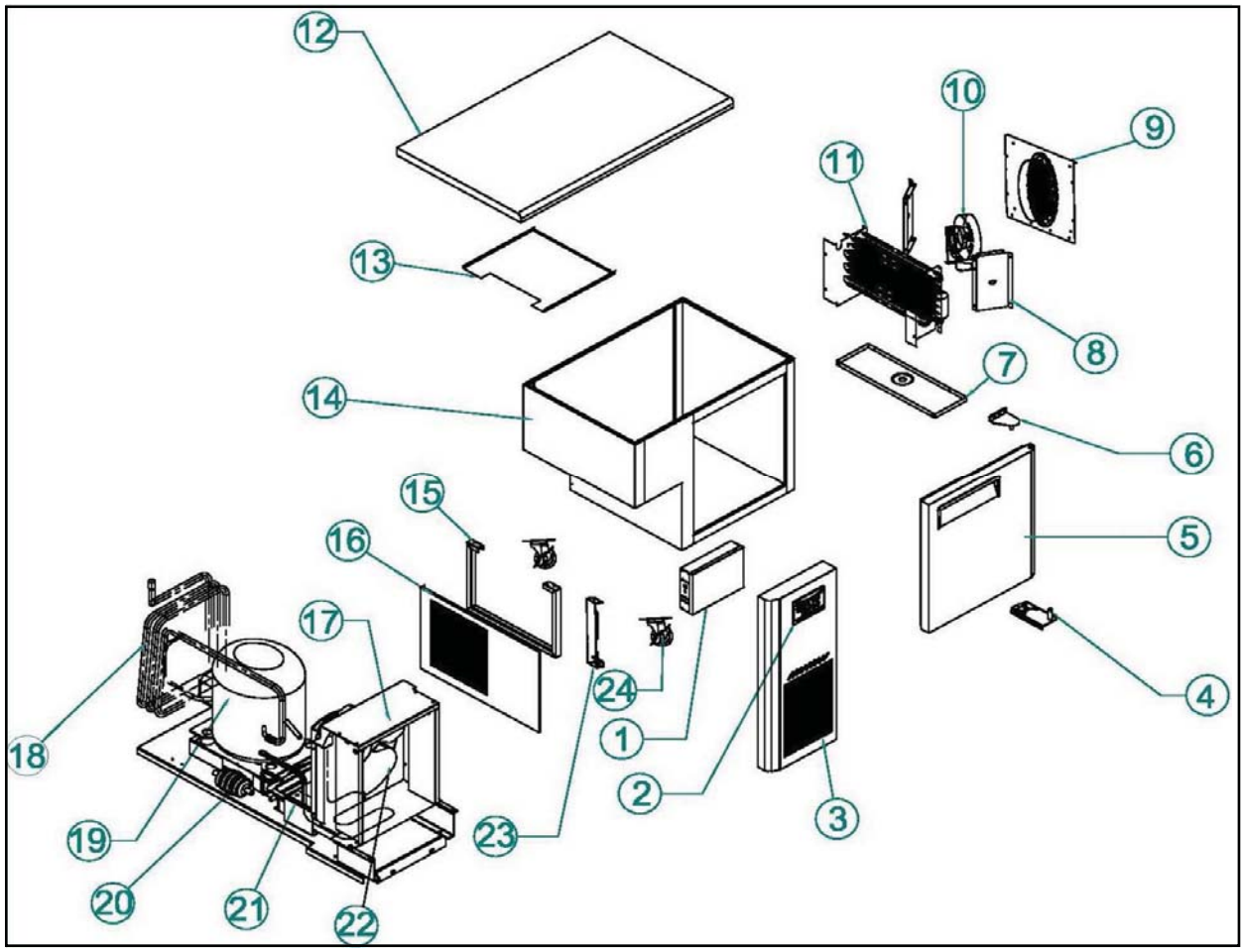
1. EXPLODED VIEW

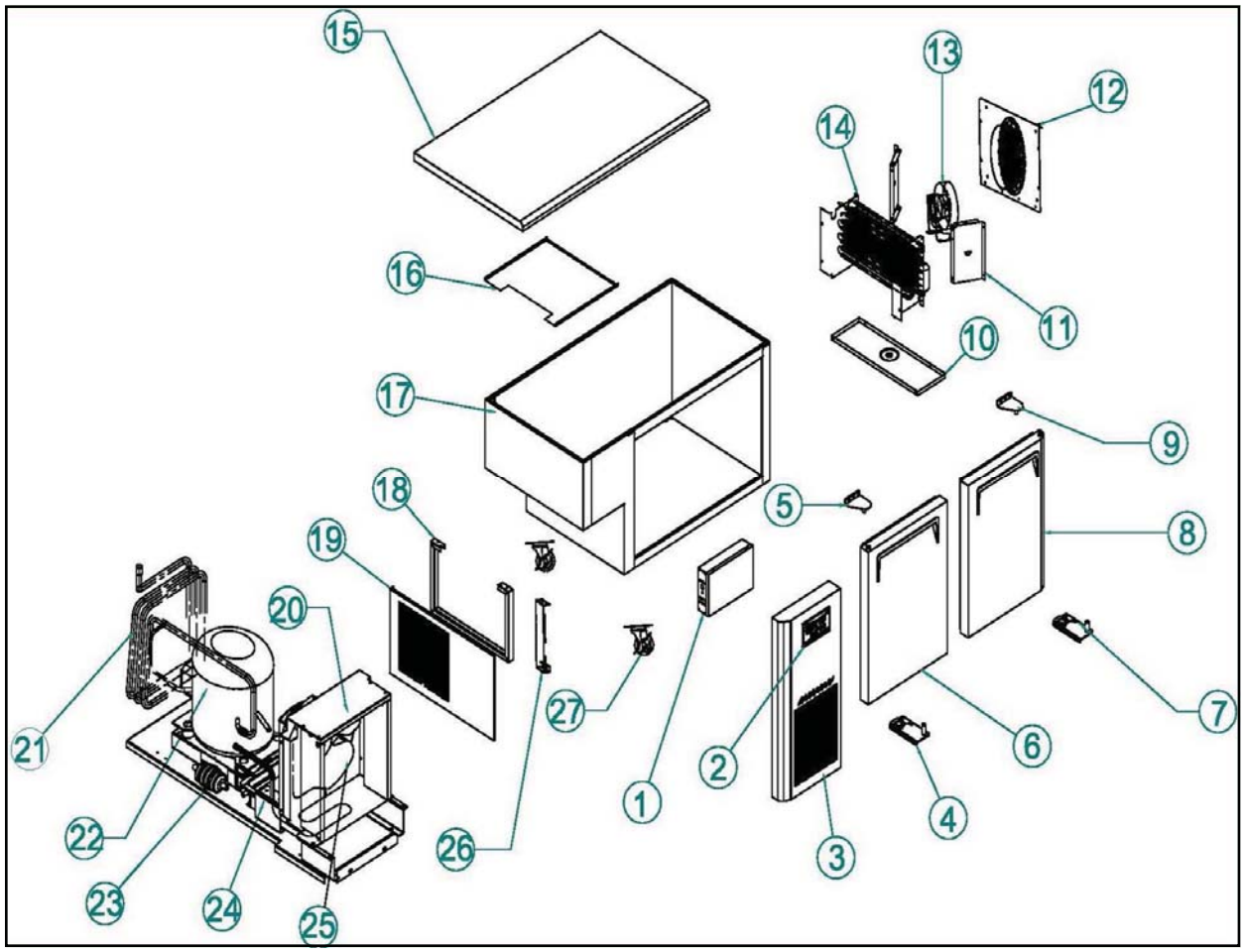
1-1. JUR-36 EXPLODED VIEW



PART NAME

1	MAIN PCB COVER	12	COUNTER TOP	23	UNIT BRACKET （A)
2	FRONT PCB	13	EVA FAN AIR GUIDE	24	CASKET
3	UNIT FRONT COVER	14	CABINET ASSY		
4	BOTTOM HINGE （R）	15	UNIT BRACKET		
5	DOOR(R)_900	16	UNIT SIDE COVER		
6	TOP HINGE （R）	17	CONDENSER ASSY		
7	EVA DRAIN GUIDE	18	SUCTION PIPE		
8	AIR GUIDE(L/R)	19	COMPRESSOR		
9	EVA DUCT	20	DRYER		
10	EVA FAN MOTOR	21	DRAIN PAN		
11	EVA ASSY	22	CONDENSER FAN MOTOR		

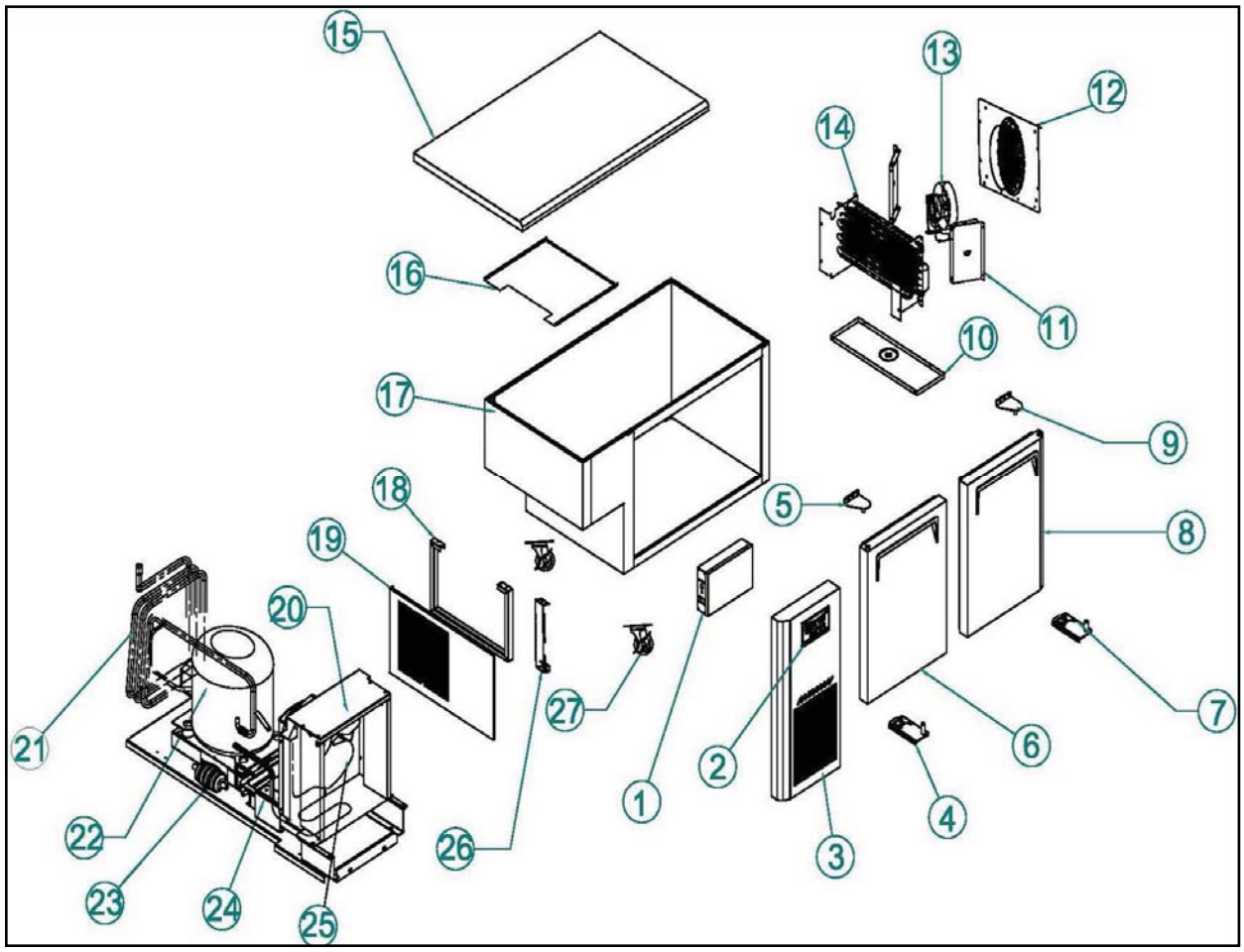
1-2. JUR-48 EXPLODED VIEW



PART NAME

1	MAIN PCB COVER	12	EVA DUCT	23	DRYER
2	FRONT PCB	13	EVA FAN MOTOR	24	DRAIN PAN
3	UNIT FRONT COVER	14	EVA ASSY	25	CONDENSER FAN MOTOR
4	BOTTOM HINGE（L）	15	COUNTER TOP	26	UNIT BRACKET（A）
5	TOP HINGE（L）	16	EVA FAN AIR GUIDE	27	CASKET
6	DOOR(L)_1200	17	CABINET ASSY		
7	BOTTOM HINGE（R）	18	UNIT BRACKET		
8	DOOR(R)_1200	19	UNIT SIDE COVER		
9	TOP HINGE（R）	20	CONDENSER ASSY		
10	EVA DRAIN GUIDE	21	SUCTION PIPE		
11	AIR GUIDE(L/R)	22	COMPRESSOR		

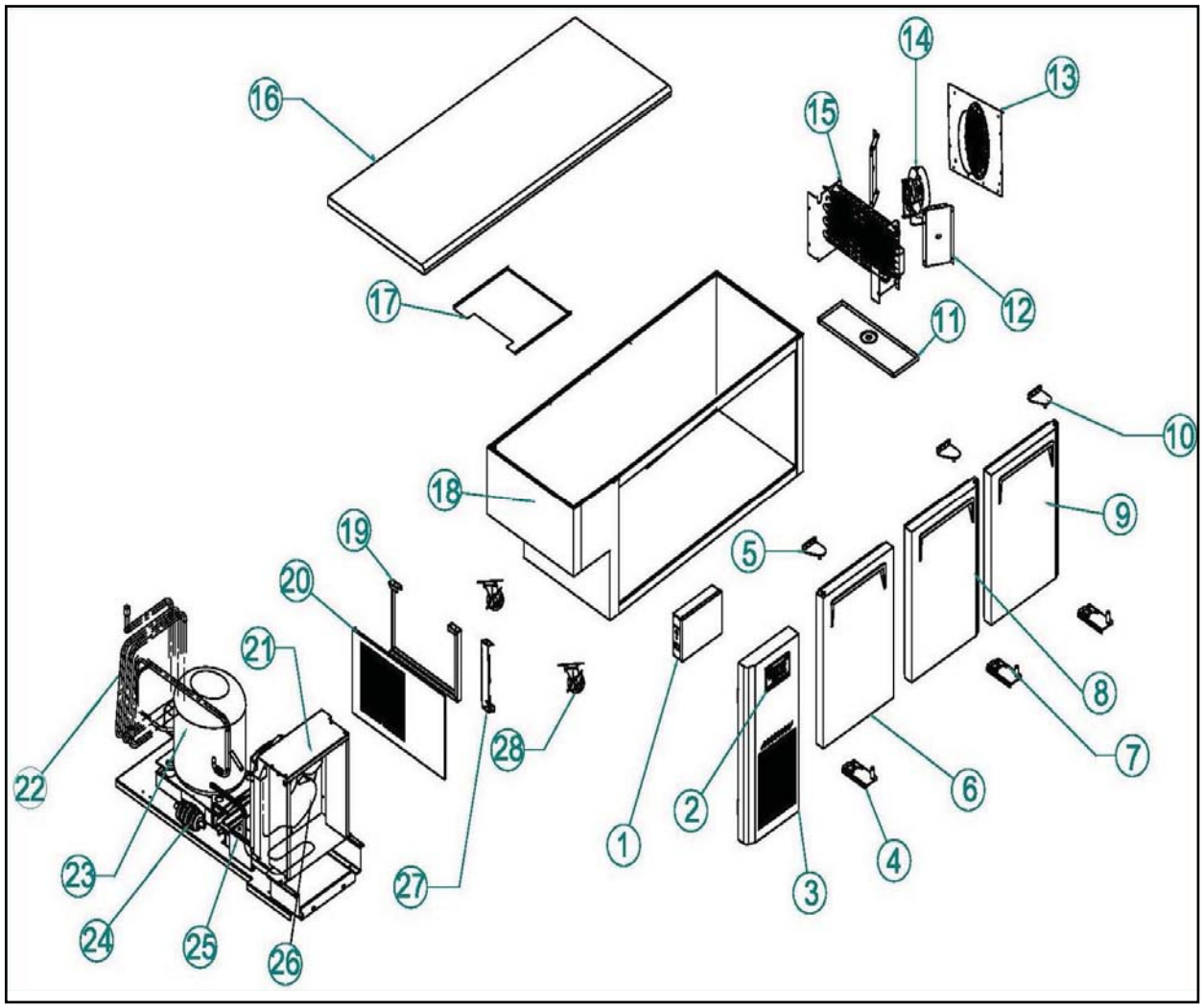
1-3. JUR-60 EXPLODED VIEW



PART NAME

1	MAIN PCB COVER	12	EVA DUCT	23	DRYER
2	FRONT PCB	13	EVA FAN MOTOR	24	DRAIN PAN
3	UNIT FRONT COVER	14	EVA ASSY	25	CONDENSER FAN MOTOR
4	BOTTOM HINGE（L）	15	COUNTER TOP	26	UNIT BRACKET（A）
5	TOP HINGE（L）	16	EVA FAN AIR GUIDE	27	CASKET
6	DOOR(L)_1500	17	CABINET ASSY		
7	BOTTOM HINGE（R）	18	UNIT BRACKET		
8	DOOR(R)_1500	19	UNIT SIDE COVER		
9	TOP HINGE（R）	20	CONDENSER ASSY		
10	EVA DRAIN GUIDE	21	SUCTION PIPE		
11	AIR GUIDE(L/R)	22	COMPRESSOR		

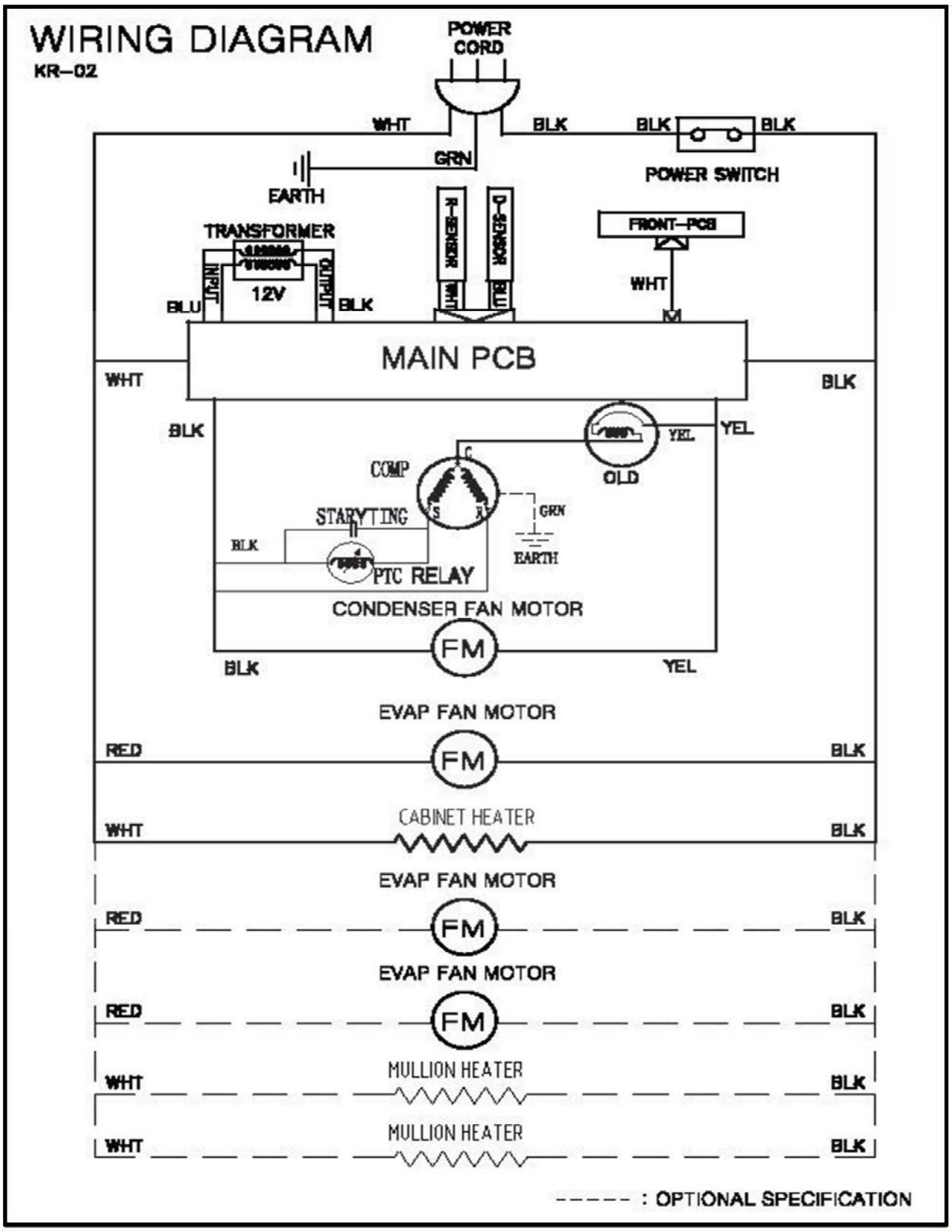
1-4. JUR-72 EXPLODED VIEW



PART NAME

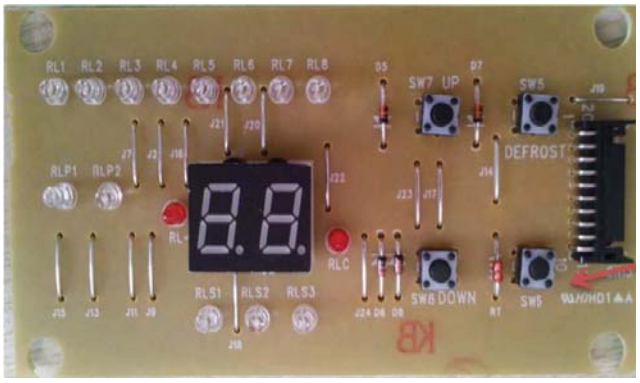
1	MAIN PCB COVER	12	AIR GUIDE(L/R)	23	COMPRESSOR
2	FRONT PCB	13	EVA DUCT	24	DRYER
3	UNIT FRONT COVER	14	EVA FAN MOTOR	25	DRAIN PAN
4	BOTTOM HINGE（L）	15	EVA ASSY	26	CONDENSER FAN MOTOR
5	TOP HINGE（L）	16	COUNTER TOP	27	UNIT BRACKET（A）
6	DOOR(L)_1800	17	EVA FAN AIR GUIDE	28	CASKET
7	BOTTOM HINGE（R）	18	CABINET ASSY		
8	DOOR(M)_1800	19	UNIT BRACKET		
9	DOOR(R)_1800	20	UNIT SIDE COVER		
10	TOP HINGE（R）	21	CONDENSER ASSY		
11	EVA DRAIN GUIDE	22	SUCTION PIPE		

2. WIRING DIAGRAMS



3.MAIN PART

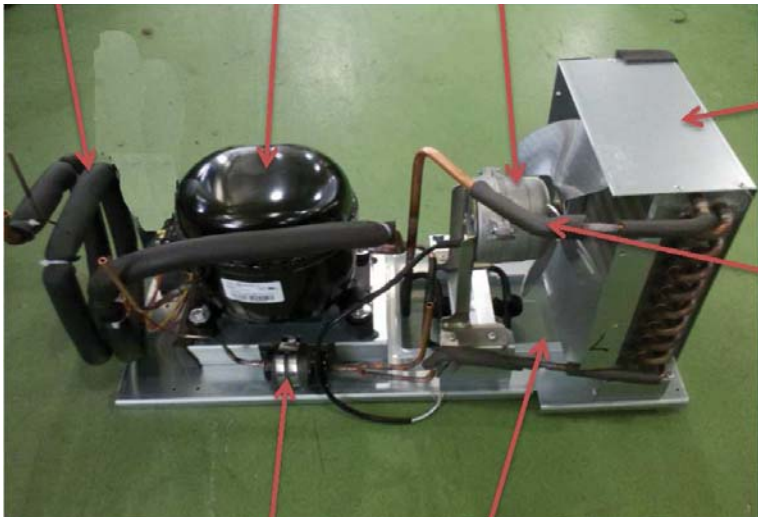
DISPLAY PCB



DISPLAY PCB

CONDENSER UNIT

SUCTION PIPE(B) COMP CONDENSER FAN MOTOR

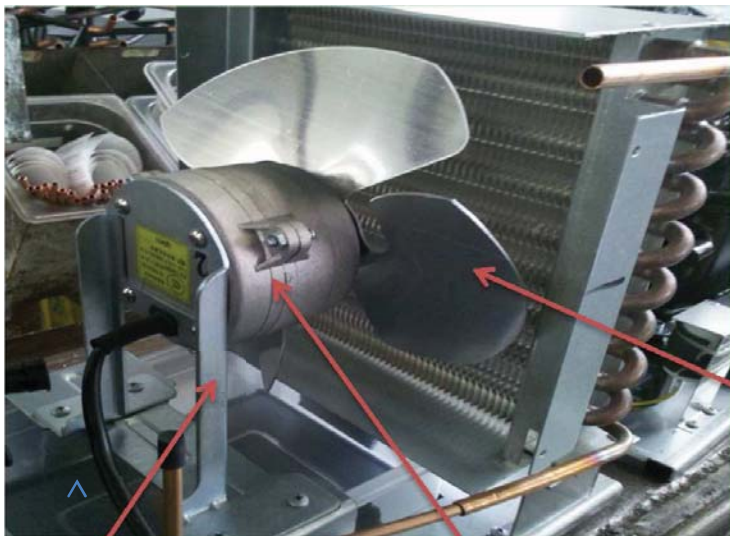


CONDENSER

DRAIN PIPE

DRYER DRAIN PAN

CONDENSER FAN MOTOR ASSY

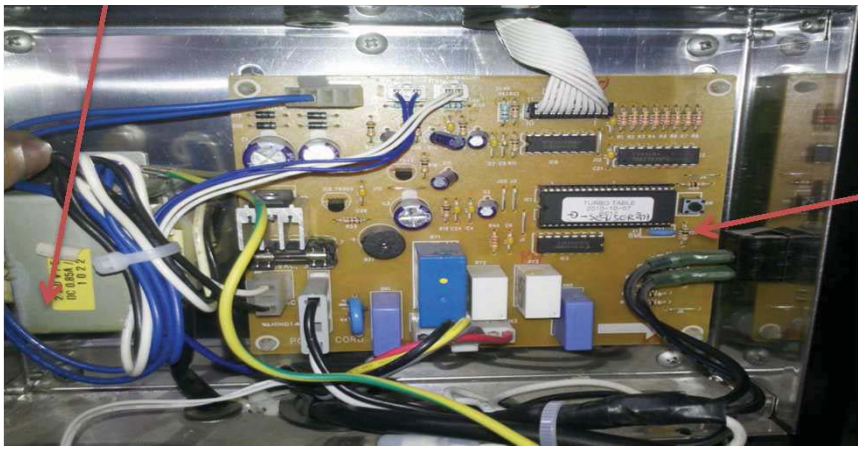


CONDENSER MOTOR FAN BLADE

CONDENSER MOTOR BRACKET CONDENSER MOTOR

PCB BOX

TRANSFORMER



MAIN PCB

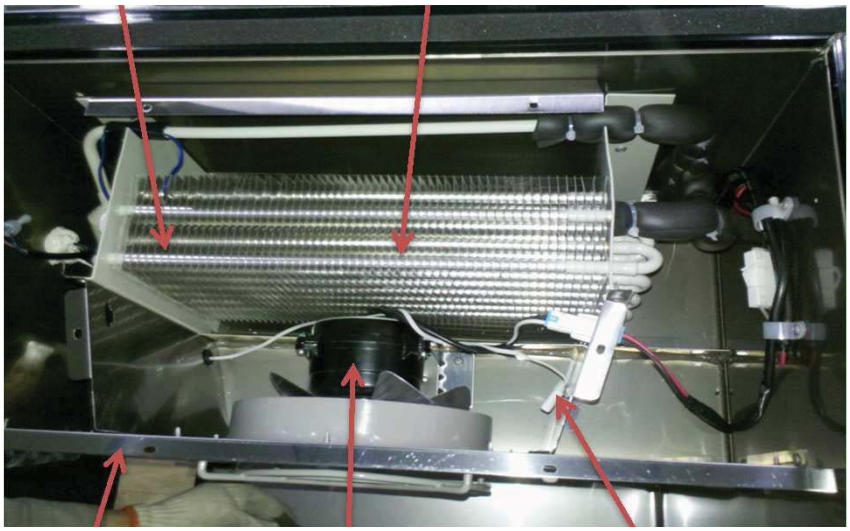
DOOR GASKET

DOOR FRAME

DOOR GASKET

EVAP UNIT

D-SENSOR EVAP



EVAP DUCT EVAP FAN MOTER R-SENSOR

EVAP DUCT

4. MAIN COMPONENTS

1.COMPRESSOR

MODEL	PART NAME	PART NO.	HP	CAPACITY	TYPE OF	INPUT	MAKER
JUR-36	HBL-27YE-1	M369700100	1/4 HP	-	RSCR	115V 60Hz	DAEWOO
JUR-48	HBL-27YE-1	M369700100	1/4 HP	-	RSCR	115V 60Hz	DAEWOO
JUR-60	HBL-27YE-1	M369700100	1/4 HP	-	RSCR	115V 60Hz	DAEWOO
JUR-72	HBL-27YE-1	M369700100	1/4 HP	-	RSCR	115V 60Hz	DAEWOO

2. COMPRESSOR RELAY , OVERLOAD

MODEL	RELAY	OVERLOAD	MAKER	NOTE
JUR-36	-	4TM314TFBYY-52	SENSATA	
JUR-48	-	4TM314TFBYY-52	SENSATA	
JUR-60	-	4TM314TFBYY-52	SENSATA	
JUR-72	-	4TM314TFBYY-52	SENSATA	

3. COMPRESSOR CAPACITOR

MODEL	STARTING	PART NO.	RUNNING	PART NO.	MAKER	NOTE
JUR-36	200V/100μF	-	230V/10μF	-	-	-
JUR-48	200V/100μF	-	230V/10μF	-	-	-
JUR-60	200V/100μF	-	230V/10μF	-	-	-
JUR-72	200V/100μF	-	230V/10μF	-	-	-

4. CONDENSER FAN MOTOR

MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE	MAKER
JUR-36	IS 4420DWSG-1	G8F6600100	4P	115V,60Hz	SHADED POLE INDUCTION	AL3	SUNGSHIN
JUR-48							
JUR-60							
JUR-72							

5. EVAPORATOR FAN MOTOR

MODEL	PART NAME	PART NO.	POLE	INPUT	TYPE	BLADE	MAKER
JUR-36	IS 4420DWSN-2A	P8F6600100	4P	115V,60Hz	SHADED POLE INDUCTION	AL4	SUNGSHIN
JUR-48							
JUR-60							
JUR-72							

6. CAPILLARY TUBE LENGTH AND REFRIFERANT

MODEL	CAPILLAY LENGTH	Refriferant	MAKER	NOTE
JUR-36	OD2.4,ID1.2,L=31007.0OZ			
JUR-48	OD2.4,ID1.2,L=31007.0OZ			
JUR-60	OD2.4,ID1.2,L=31008.5OZ			
JUR-72	OD2.4,ID1.2,L=360012.0OZ			

7.FILTER DRYER

MODEL	PART NO.	REFRIFERANT	SPEC	NOTE
JUR-36	BR84100101	R-134a	C-052-5	-
JUR-48	BR84100101	R-134a	C-052-5	-
JUR-60	BR84100101	R-134a	C-052-5	-
JUR-72	BR84100101	R-134a	C-052-5	-

5. PARTS LIST

PART NAME	PART NAME	DESCRIPTION	Model				Remark
			36	48	60	72	
COUNTER TOP ASSY	KR2FF00100			1			
COUNTER TOP ASSY	KR5FF00100				1		
COUNTER TOP ASSY	KR8FF00100					1	
COUNTER TOP ASSY	KR9FF00100		1				
DOOR ASSY_900	KR9AF00102		1				
DOOR ASSY(L)_1200	KR2AF00202			1			
DOOR ASSY(R)_1200	KR2AF00102			1			
DOOR ASSY(L)_1500	KR5AF00202				1		
DOOR ASSY(R)_1500	KR5AF00102				1		
DOOR ASSY(L)_1800	KR8AF00202					1	
DOOR ASSY(M)_1800	KR8AF00302					1	
DOOR ASSY(R)_1800	KR8AF00102					1	
DOOR GASKET	KR23300103	PVC		2			
DOOR GASKET	KR53300103	PVC			2		
DOOR GASKET	KR83300103	PVC				3	
DOOR GASKET	KR93300103	PVC	1				
DOOR BUSHING	M720700101	ABS	2	4	4	6	
SPRING BAR	BR98400100			2		3	
SPRING BAR	BR98400200		1		2		
BOTTOM HINGE (U)(L)	30229M0305	SUS		1	1	1	
BOTTOM HINGE (U)(L)	30229M0405	SUS	1	1	1	2	
TOP HINGE (L)	M722900206	SUS		1	1	1	
TOP HINGE (R)	M722900106	SUS	1	1	1	2	
COMPRESSOR	M369700100	HBL-27YE-1	1	1	1	1	
EVA ASSY	DK8AI00103	CU			1	1	
EVA ASSY	DK9AI00103	CU	1	1			

PART NAME	PART CODE	DESCRIPTION	Model				Remark
			9	12	15	18	
DRYER	BR84100100		1	1	1	1	
CONDENSER	KF84900105					1	
CONDENSER	KF24900104		1	1	1		
CONDENSER FAN MOTOR	G8F6600100		1	1	1	1	
EVAP FAN MOTOR	P8F6600100		1	1	1	1	
DISPLAY PCB	JR85400101		1	1	1	1	
MAIN PCB	BR85400100		1	1	1	1	
POWER CORD	M721300201		1	1	1	1	
R SENSOR	K3F5102100		1	1	1	1	
D SENSOR	K3F5102001		1	1	1	1	
TRANS	K3F6000100		1	1	1	1	
MAIN PCB COVER(B)	KR81400100	SUS	1	1	1	1	
MAIN PCB COVER(F)	KR81400200	SUS	1	1	1	1	
ASSY MAGNET	KR89900200	02-10-201-10	2	2	2	2	
ASSY MULLION (85mm)	KR9AC00100			1	1	1	
ASSY MULLION (100mm)	BR8AC00100					1	
ASSY UNIT FRONT COVER	KR81900302		1	1	1	1	
EVA DRAIN GUIDE	KR91800201	SUS	1	1	1	1	
UNIT SIDE COVER	KR81900104	SUS	1	1	1	1	
EVAP DUCT	KF81700100	SUS	1	1	1	1	
EVAP FAN DUCT	KF85220300	SUS	1	1	1	1	
COOLING MOTOR COVER	G8F3200502	ABS	1	1	1	1	
SHELF STANDARD	M725300201	SUS	4	8	8	12	
FIXTURE SHELF CLIP	30220L0903	PA-66	4	8	8	12	
SHELF_1200	KR29000101	Pe-Co (Gray)		2			
SHELF_1500	KR59000101	Pe-Co (Gray)			2		
SHELF_1800	KR89000101	Pe-Co (Gray)				2	
SHELF_900	KR99000101	Pe-Co (Gray)	1			1	
CASTER	G8F6500101	MOVE 4 INCH	2	2	2	4	
CASTER	G8F6500201	STOP 4 INCH	2	2	2	2	
DRAIN PAN	M729300103	P.P	1	1	1	1	
FRONT PCB CASE	KR93200300	ABS	1	1	1	1	
POWER SWITCH	30281Q0100	ABS	1	1	1	1	
DRAIN HOSE	KF83000100	PVC	1	1	1	1	
CABINET HEATER	JR25300102	OPTION		1			
CABINET HEATER	JR55300102	OPTION			1		
CABINET HEATER	JR85300102	OPTION				1	
CABINET HEATER	JR95300102	OPTION	1				
MULLION HEATER	JR85300201	OPTION		1	1	2	

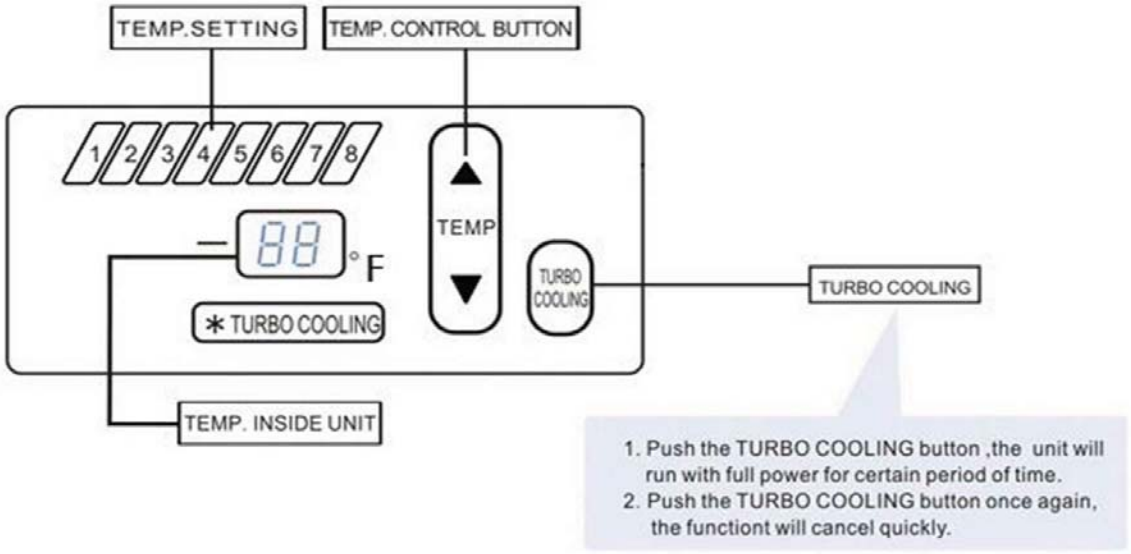
6. TEMPERATURE CONTROL INSTRUCTION

BASIC OPERATION

1.Plug in and turn on the power switch located on the top side of the unit front cover. The Display panel will be lighted and make a beep sound. The compressor will begin to run.
2. The default temperature setting is No."4".
3. The compressor is automatically cycled by the electronic controller(PCB).
4. The Defrost cycle is automatically controlled by the PCB.
5.Set level toward"1" for higher temperature and "8" for lower temperatures.
6.Good Air Flow in refrigerator unit is critical.
Be careful to load product so that it neither presses against the back wall, nor reaches within four inches from the evaporator compartment.

1、By pushing the up/down button, you can set the inside temperature level from"1" to "8"

2、If you want lower temperature,push the Down button to be lighted higher level numbers.



1. Push the TURBO COOLING button ,the unit will run with full power for certain period of time.
2. Push the TURBO COOLING button once again, the functiont will cancel quickly.

1、It displays inside temperature.

2、When the inside temperature is lower than -49°F the panel will display 'LO'.

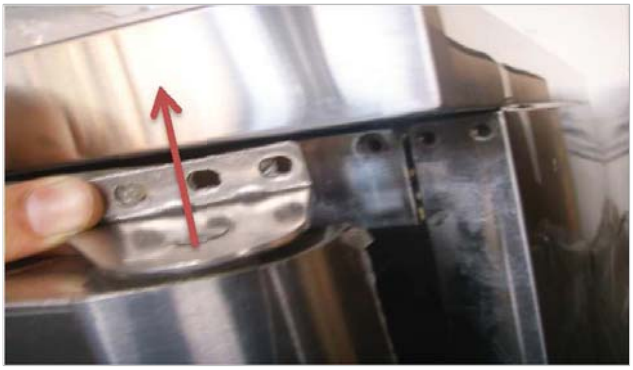
LO

and higher than+64.4°F, the panel will display 'HI'.

HI

7.REPLACEMENT OF MAIN COMPONENTS

7-1.REPLACING DOOR

A.Unscrew the top hinge	B.Lift the door
	
C.Lift the door and take apart it from cabinet.	D.DOOR ASSY
	

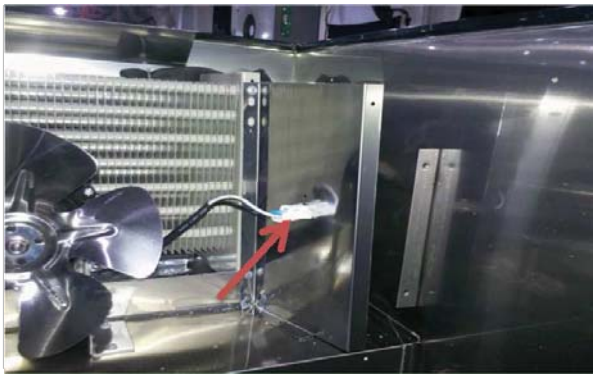
7-2.Cabinet Compartment

A.Unscrew the cabinet Reinforce.	B.Unscrew the counter top bracket(Right).
	
C.Unscrew the counter top bracket(Left).	D.Cut the counter top out of cabinet as below.
	

E.Unscrew evap fan duct.

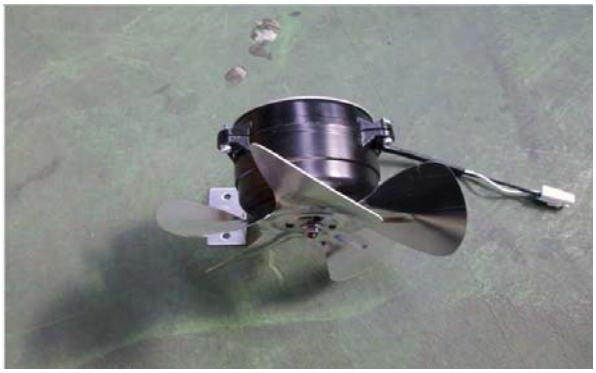
G.Unplug the evaporator motor connector.

H.Disassemble evap motor.



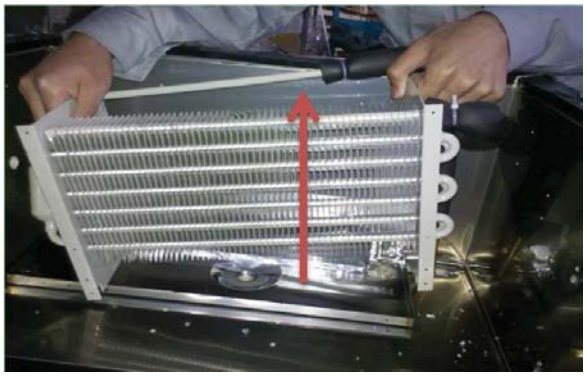
I.Evap Motor

J.Disassemble air guide

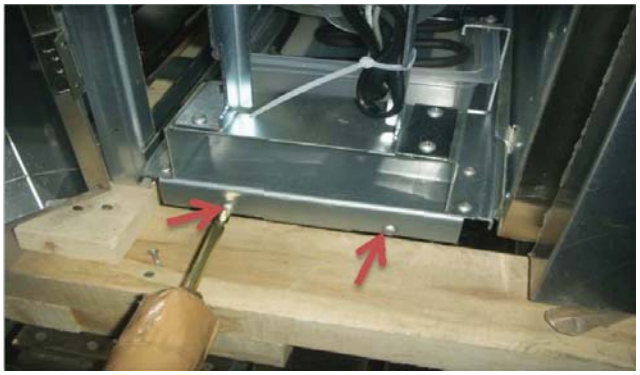


K.Unscrew evap air guide.

L . Disconnect the harness sensor.

M. Pull out Sensor from the Evap.	N.Unscrew evaprator.
	
O.After unscrewing,remove evaporator.	P.Evaporator
	

7-3.COMPRESSOR COMPARTMENT PARTS

A.Disassemble the unit front cover assembly	B.Disassemble the unit side cover
	
C.Remove the mech cover	D.Remove the comp base
	

E.Disassembly the condesing unit

7-4.DISASSEMBLE Refrigerator Compartment

A.Unsolder suction pipe(B) and comp as below

B.Unsolder condenser and drain pipe .

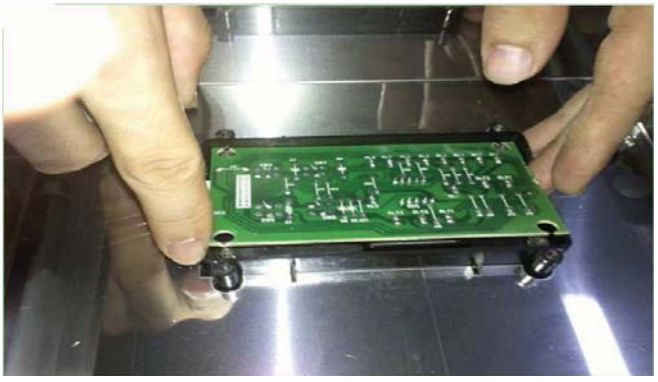
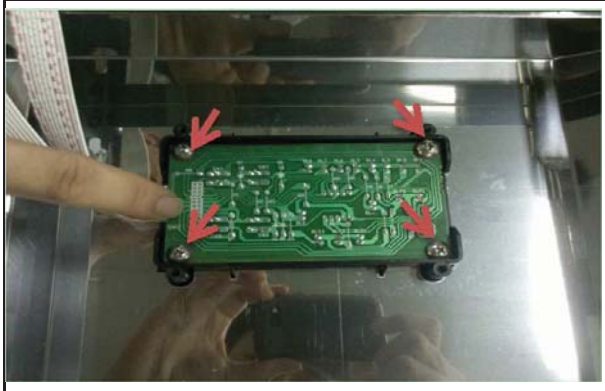
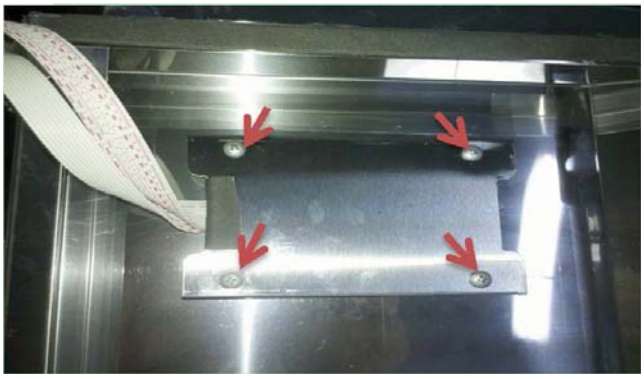
C.Unscrew the compressor.

D.Disassemble the condenser motor.

E.Unscrew the condenser.

F.Disassemble filter dryer.

7-5 Replace Front PCB

A.lift the unit front cover as illustrated below.	B.Switch off the power.
	
C.Unplug	D.Remove the display PCB back cover by unscrewing the four screws located on the display PCB back cover.
	
E.Disassemble display PCB.	F.Replace display PCB with the new one.
	
G.Screw the display PCB.	H.Tighten the screws located on display PCB back cover.
	

I.Put the plug in the socket.

J.Turn on the unit.

7-6 How to use Display PCB

A.Push"SW1" and "SW2" button (SWI▼. SW2 ▲) at the same time and wait five seconds to set mode.

B.Bar LED display "F1",the unit is at the mode of freezer.

C.Then push"SW1" button (SWI ▼) one time,the unit is at the mode of freezer(F2).

D.Push"SW1" button (SWI ▼) agian,the unit is at the mode of refrigerator(R1).

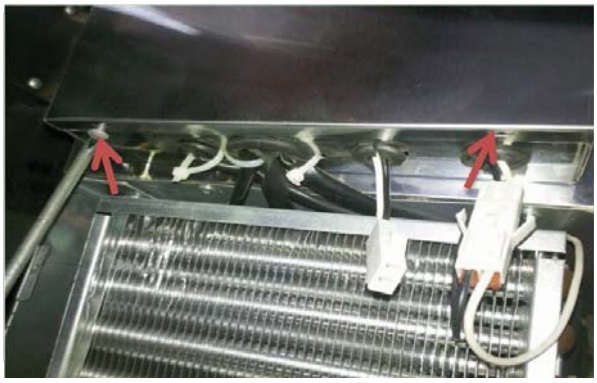
E.Turn off the power after setting the necessity mode,then restart the power.

-7 Replace Main PCB

A.lift the unit front cover as illustrated below.

B. Unscrew the main PCB cover (front).

C.Unscrew the the main PCB cover(back).

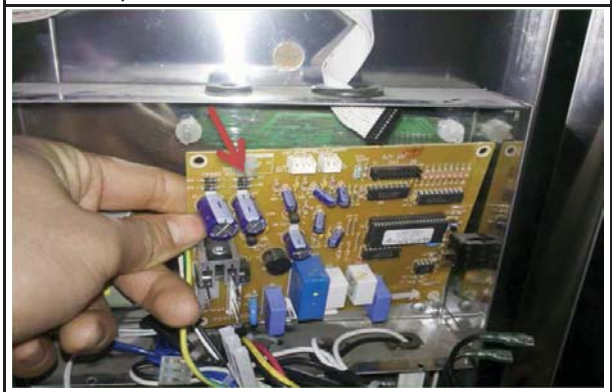


D.Disconnect the connectors.

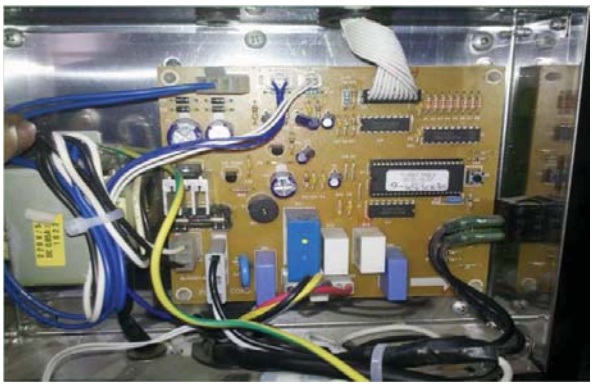
E.Figure of the removed connectors.

F.Separate the PCB.

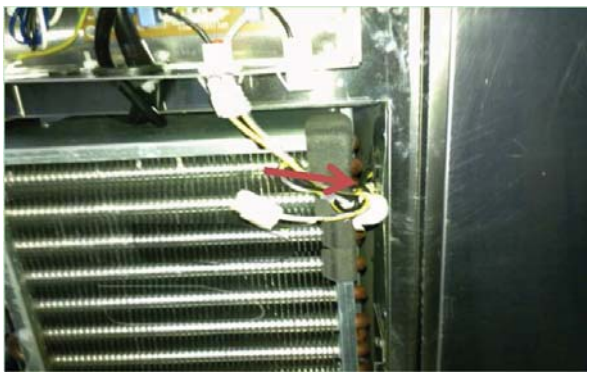
G.Take apart the main PCB from electrical box.

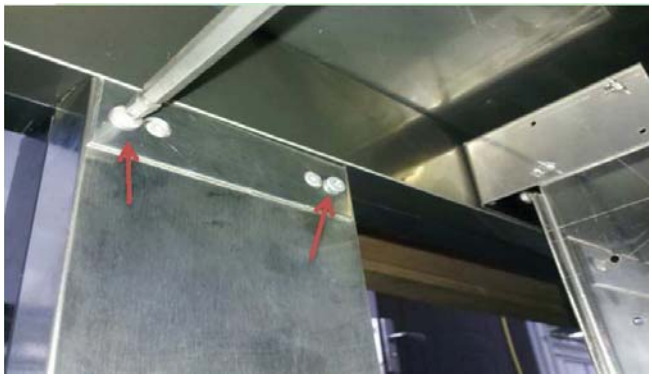
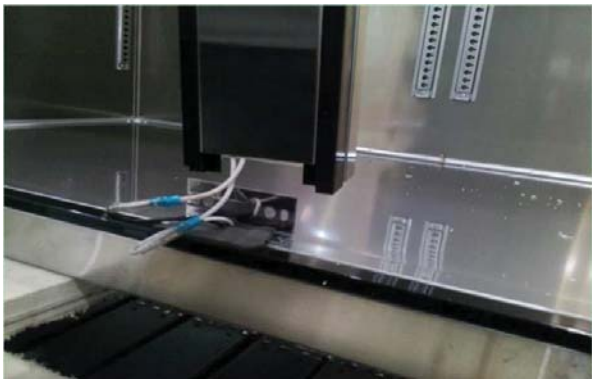
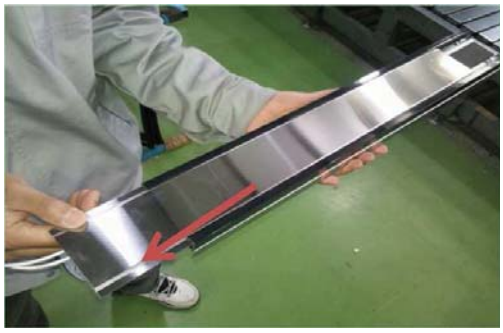


H.Replace the main PCB with the new one.

I.Connect connectors of main PCB.	J.Tighten the screws as below.
	
K.Assemble the unit front cover.	
	

7-8 Replacing cabinet frame heater(and/or)mullion heater

A.Insert the point of"-"type screw driver into the gap between the frame and frame cover.	B.Take apart the frame cover from the frame.
	
C.Pull out the heater wire from the inlet.	D.Insert new cabinet heater wire to the inlet.
	

E.Assemble the frame cover with frame.Pat the frame cover with the soft hammer,etc.	F. Disassemble the mullion frame.
	
G.Uncap connectors of mullion heater.	H. Take apart mullion frame cover from mullion frame.
	
I. Replace the mullion heater with a new one.