

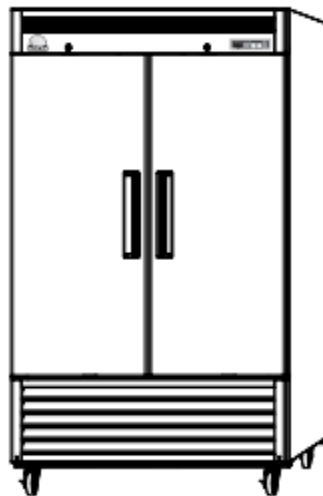


Blue Air
Commercial Refrigeration Inc.

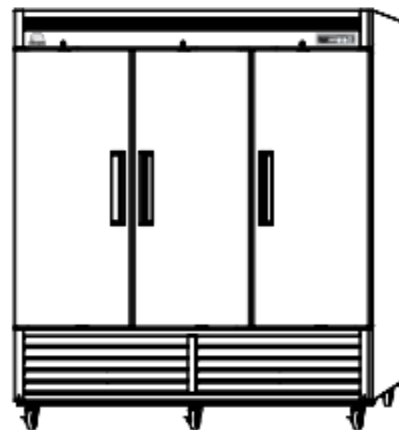
Commercial Upright Refrigerator & Freezer Service Manual



BSR23
BSF23



BSR49
BSF49



BSR72
BSF72

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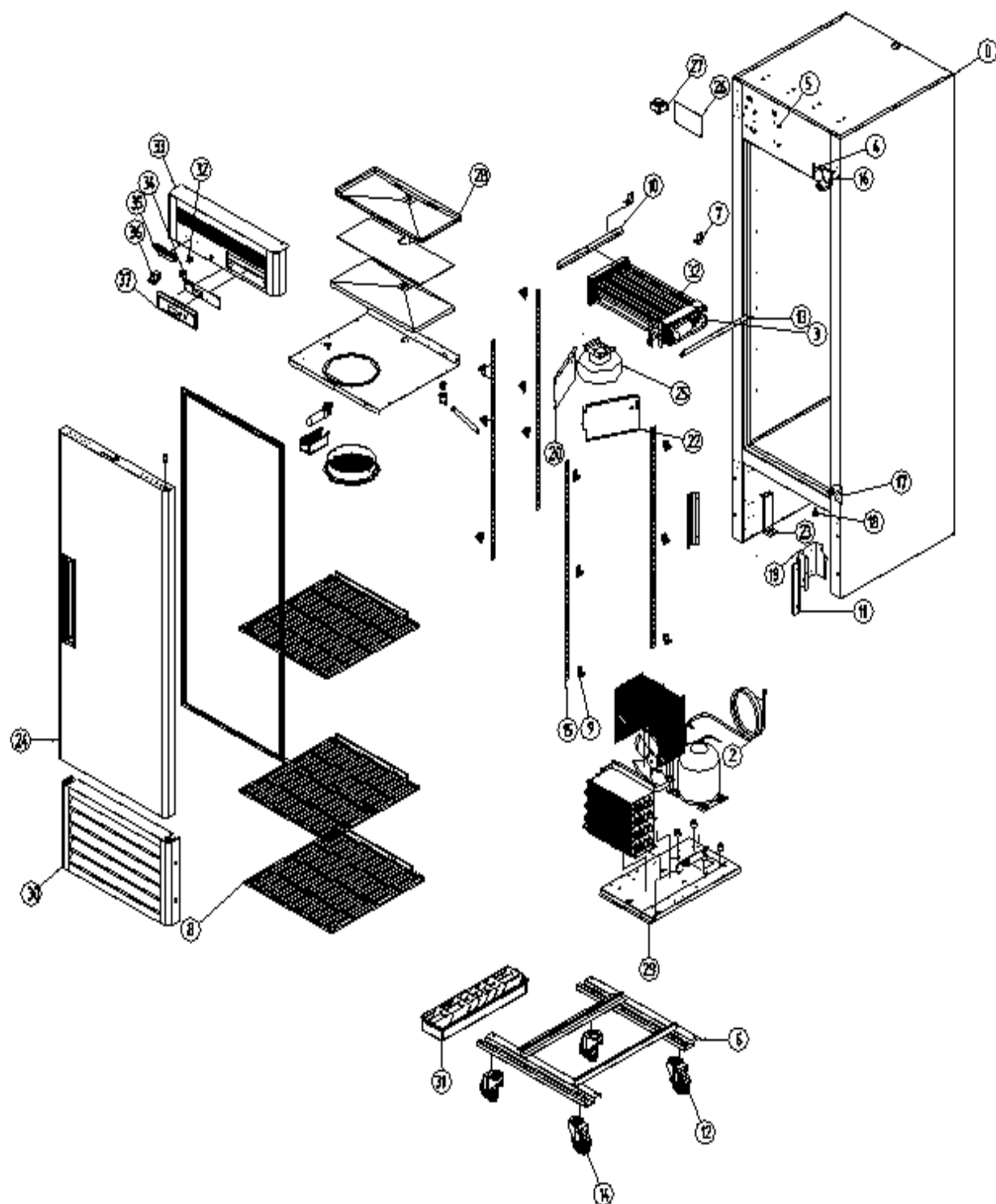
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Safety cautions during service

- **When exchanging or repairing electric parts, pull the plug out before exchanging and repairing.**
- **When exchanging electric parts, use a rating part.**
 - Be sure to check marks such as MODEL name, rating voltage, rating currents, movement temperature etc.
- **During repairing, make sure wirings such as HARNESS, WIRE JOINT are sturdy so that it is free of danger due to disclosure of core wire.**
 - Don't let it derail when certain strength is put on.
- **When repairing, take out the dust or foreign body (Housing part, wiring part, contact point part).**
 - It prevents danger of fire such as TRACKING, SHORT.
- **Check whether water has gone into the electric parts.**
 - When there are traces of water, exchange the parts or enact the TRACKING prevention device.
- **After repairing, check the assembly status of the parts.**
 - Keep the status as it was before the repairing. .
- **After checking the usage environment of the product and if the installation is unstable, change the usage location.**
 - For installations in places with moisture, water and for heat devices, prevent placing products near igniting materials etc.
- **When earthing is needed, earth it.**
 - For cases when electric leakage is concerned due to moisture or water, be sure to earth it.
- **For products that consumes power such as electric products, make sure numerous plugs are not used in a single outlet.**

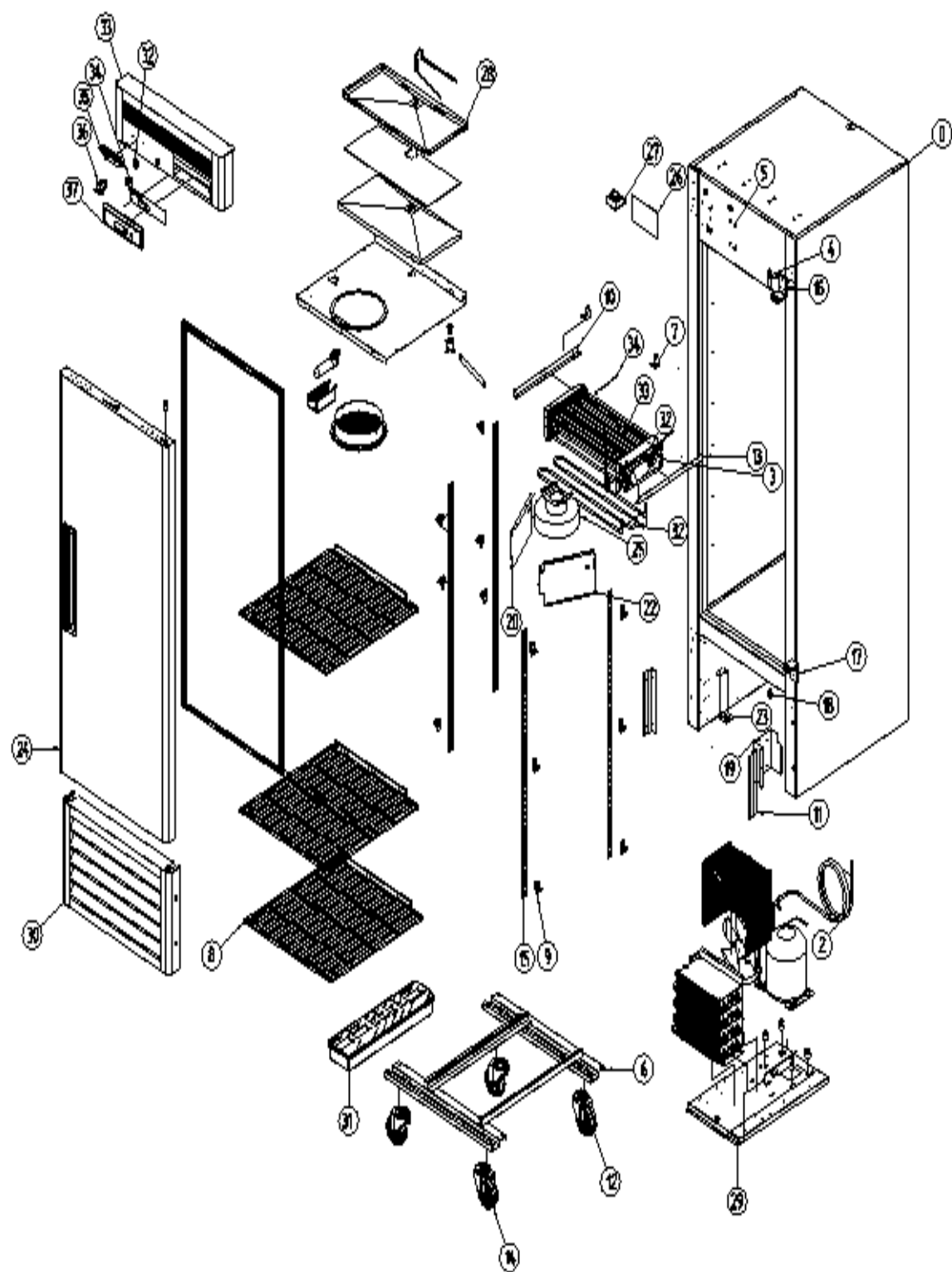
1. ASSEMBLY (BSR23)



1-1. PART LIST : BSR23

NO	CODE-No	Title	Subject	Q'TY
1	R827A-020	ASSY CABI URT	R23	1
2	R2103-445	COMPRESSOR PULL OUT	CU-PIPE. OD9.52*T0.6*1716	1
3	R8613-354	EVAPORATOR ASSY	AL	1
4	R858A-410	SHAFT TOP HINGE AS	SUM24L. Ø15*114	1
5	C3379-240	SUPPORT	SDSAA-9N	4
6	R3212-231	FRAME ASSY 23	WELDING 600LT	1
7	R3314-282	TOP FRAME B/K	Gl. T1.0*30*59.6	2
8	R3233-200	SHELF 23	MSWR10. NSF	3
9	R3313-152	SHELF CLIP	POM. WHT	12
10	R3313-271	EVAPORATOR B/K LF	STS304-2B. T1.0*408*37.5	1
11	R315A-060	BRACKET GRILLE	Gl. T1.0*110*102.5	2
12	R3323-230	CASTER 4"	4" MOVE	2
13	R3313-271	EVAP COVER B/K LF	STS304-2B. T1.0*408*37.5	1
14	R3323-240	CASTER 4"	4" STOP	2
15	R3373-630	SHELF STANDARD L	AL. T1.2*930	4
16	R828A-062	ASSY HINGE TOP RH	STS304 T=4.0	1
17	R828A-020	ASSY HINGE BOTTOM RH	STS304 T=4.0	1
18	R375A-030	STOPPER DOOR RH	POM (FW700S)	1
19	R3813-351	COVER CAPACITOR	Gl. T0.8*255.2*135	1
20	R3853-110	EVAPORATOR AIR GUIDE LF	AL WHITE T0.5*162*247	1
22	R3853-090	EVAPORATOR AIR GUIDE RIGHT	AL WHITE T0.5*162*247	1
23	R3854-210	EVAPORATOR DRAIN HOSE GUIDE	Gl. T1.0*225*60	1
24	R817A-340	DOOR ASSY 23	R23	1
25	R8329-060	EVAPORATOR FAN MOTOR ASSY	115V 60HZ	1
26	R7109-780	MAIN PCB (115. °F)	115V. REF 2010 Energy Star	1
27	R7504-060	POWER TRANS	120V 60HZ. DT-1213	1
28	R8139-110	EVAPORATOR HOUSING ASSY	R23	1
29	R815A-010	ASSY UNIT	R23	1
30	R818A-310	ASSY GRILLE BOTTOM_23	23R/F	1
31	R8199-080	EVAPORATOR DRAIN WATER S ASSY	R/F23	1
32	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
33	R818A-340	ASSY GRILL TOP_23	23F/R BLUE	1
34	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	1
35	R514A-031	MASCOT	T3.8*90*64	1
36	R7203-020	DOOR SWITCH	WHT. SP201R-9D	1
37	R832A-030	ASSY CONTROL BOARD 23	R/F 23	1
38	R7213-112	TEMP-DISPLAY SENSOR. REF	R23	1

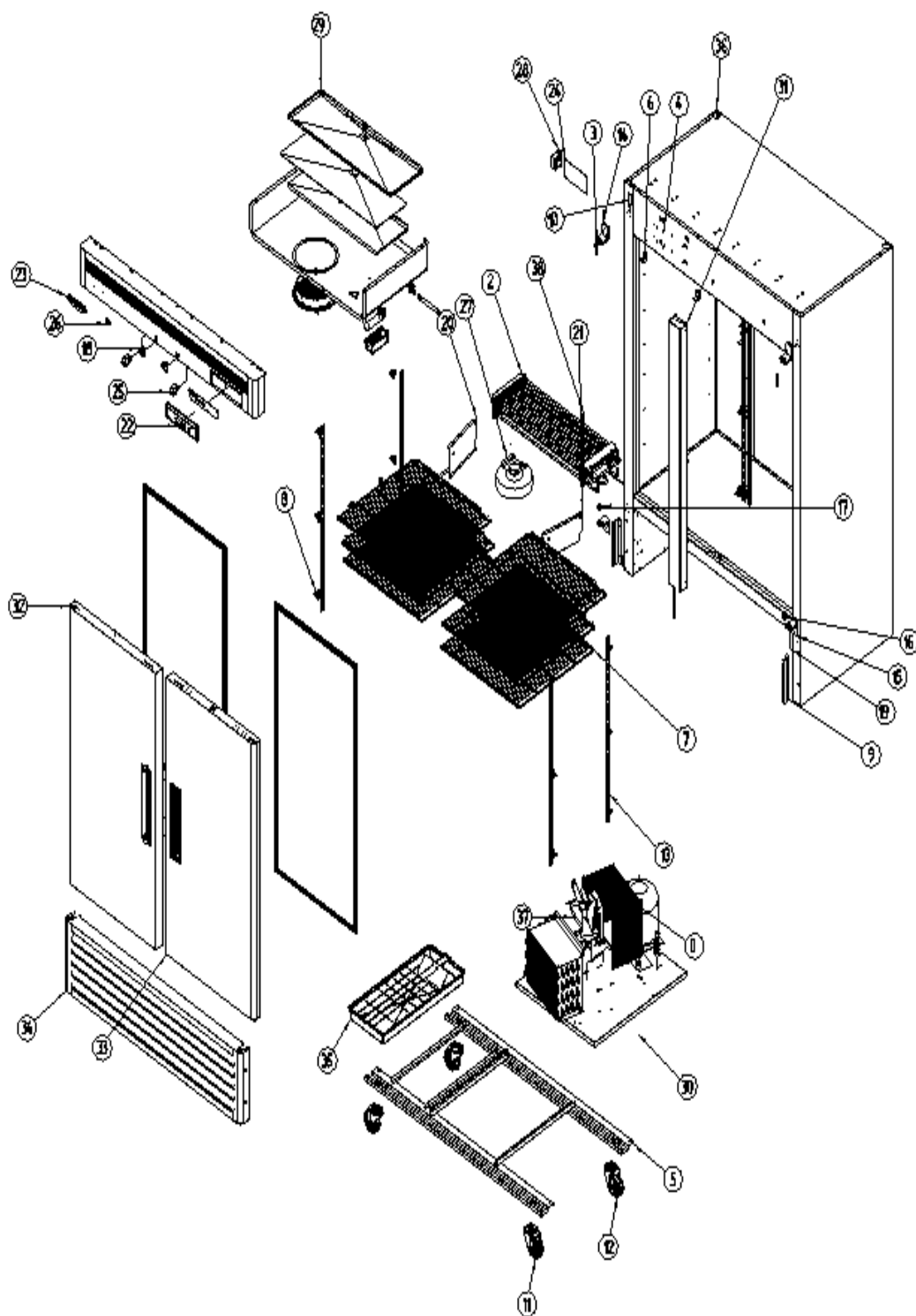
1. ASSEMBLY (BSF23)



1-2. PART LIST : BSF23

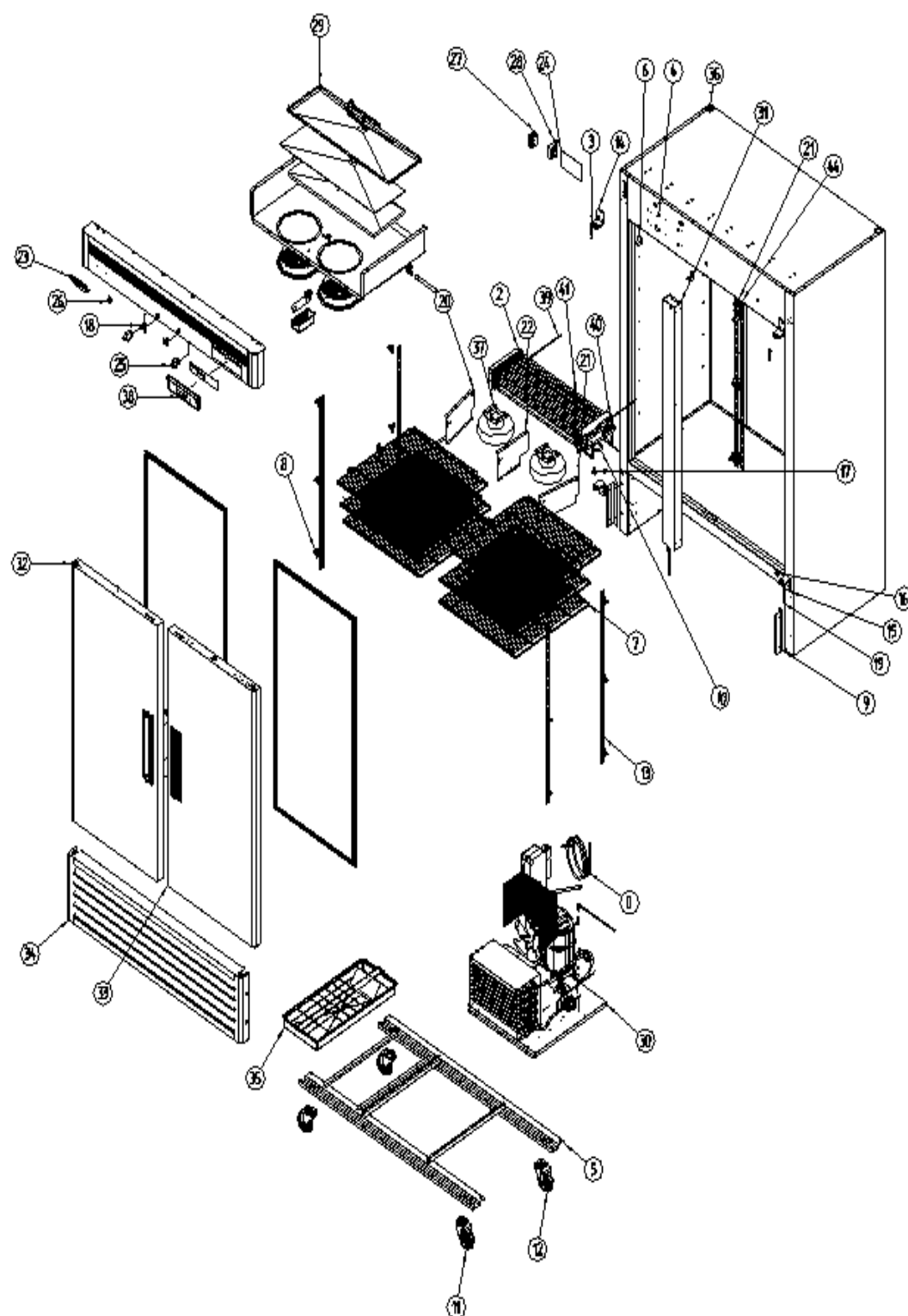
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1	R827A-030	ASSY CABI FOAM	F23	1
2	R2103-445	COMPRESSOR PULL OUT	CU-PIPE. OD9.52*T0.6*1716	1
3	R2263-038	EVAPORATOR	CU+AL. 23F	1
4	R858A-410	SHAFT TOP HINGE AS	SUM24L Ø15*114	1
5	C3379-240	SUPPORT	SDSAA-9N	4
6	R3212-231	FRAME ASSY 23	WELDING 600LT	1
7	R3314-282	TOP FRAME B/K	GI. T1.0*30*59.6	2
8	R3233-200	SHELF 23	MSWR10. NSF	3
9	R3313-151	SHELF CLIP	POM. WHT	12
10	R3313-271	EVAPORATOR B/K LF	STS304-2B. T1.0*408*37.5	1
11	R315A-060	BRACKET GRILLE	GI. T1.0*110*102.5	2
12	R3323-230	CASTER 4"	4" MOVE	2
13	R3313-271	EVAP COVER B/K LF	STS304-2B. T1.0*408*37.5	1
14	R3323-240	CASTER 4"	4" STOP	2
15	R3373-630	SHELF STANDARD L	AL. T1.2*930	4
16	R828A-062	ASSY HINGE TOP RH	STS304 T=4.0	1
17	R828A-020	ASSY HINGE BOTTOM RH	STS304 T=4.0	1
18	R375A-030	STOPPER DOOR RH	POM (FW700S)	1
19	R3813-350	COVER CAPACITOR	GI. T0.8*255.2*135	1
20	R3853-110	EVAPORATOR AIR GUIDE LF	AL WHITE T0.5*162*247	1
22	R3853-090	EVAPORATOR AIR GUIDE RIGHT	AL WHITE T0.5*162*247	1
23	R3854-210	EVAPORATOR DRAIN HOSE GUIDE	GI. T1.0*225*60	1
24	R817A-340	DOOR ASSY 23	R23	1
25	R8329-060	EVAPORATOR FAN MOTOR ASSY	115V 60HZ	1
26	R7109-790	MAIN PCB (115. °F)	115V. FRE 2010 Energy Star	1
27	R7504-060	POWER TRANS	120V 60HZ. DT-1213	1
28	R8139-090	EVAPORATOR HOUSING ASSY	F23	1
29	R815A-020	ASSY UNIT	F23	1
30	R818A-310	ASSY GRILLE BOTTOM_23	23R/F	1
31	R8199-080	EVAPORATOR DRAIN WATER S ASSY	R/F23	1
32	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
33	R818A-340	ASSY GRILL TOP_23	23F/R BLUE	1
34	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	1
35	R514A-031	MASCOT	T3.8*90*64	1
36	R7203-020	DOOR SWITCH	WHT. SP201R-9D	1
37	R832A-030	ASSY CONTROL BOARD 23	R/F 23	1
38	R7303-402	DEFROST HEATER	F23	1
39	R7213-082	TEMP-THERMISTOR,FRE	F23	1
40	R7213-210	D-SENSOR	F23	1
41	R7253-052	EVAPORATOR THERMAL FUSE	F23	1

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1-3. PART LIST : BSR49

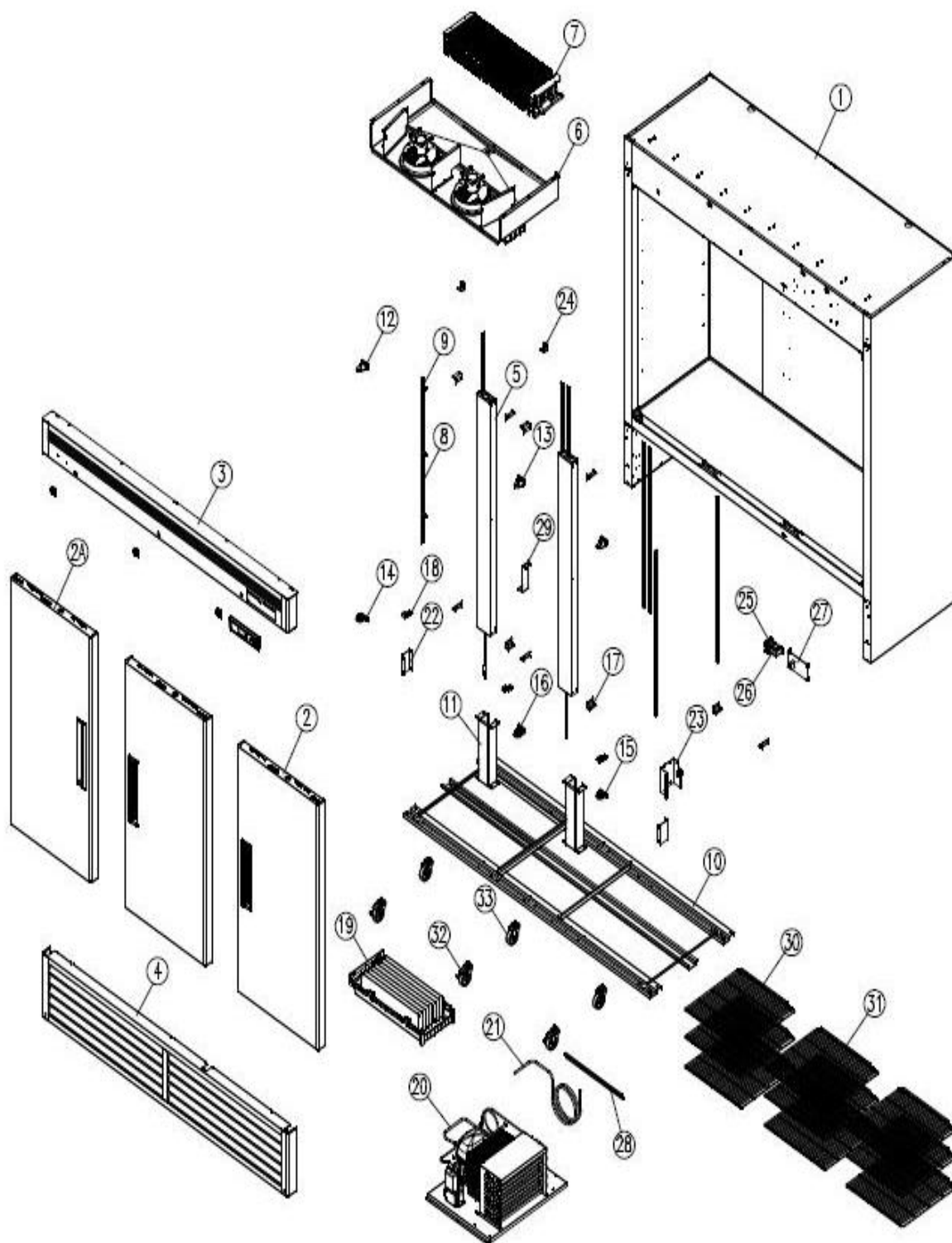
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1	R2103-942	COMPRESSOR PULL OUT	CU-PIPE. T0.7*OD9.52*1566	1
2	R8613-343	EVAPORATOR ASSY	R49	1
3	R858A-410	SHAFT TOP HINGE AS	SUM24L Ø15*114	2
4	C3379-240	SUPPORT	DSAA-9N	4
5	R3212-250	FRAME ASSY (49)	717.5*1408	1
6	R3314-282	TOP FRAME B/K	GI. T1.0*30*59.6	3
7	R3233-210	ASSY SHELF -49	MSWR10+PE	6
8	R3313-152	SHELF CLIP	POM. WHT	26
9	R315A-060	BRACKET GRILLE	GI. T1.0*110*102.5	2
10	R7213-112	RT-SENSOR	TH310H34GANR WHITE. L=200	1
11	R3323-230	CASTER 4"	4" MOVE	2
12	R3323-240	CASTER 4"	4" STOP	2
13	R3373-630	SHELF STANDARD L	AL. T1.2*930	6
14	R828A-062	ASSY HINGE TOP RH	STS304 T=4.0	1
15	R828A-020	ASSY HINGE BOTTOM RH	STS304 T=4.0	1
16	R375A-030	STOPPER DOOR RH	POM (FW700S)	1
17	R375A-040	STOPPER DOOR LF	POM (FW700S)	1
18	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	2
19	R3813-351	COVER CAPACITOR	GI. T0.8*255.2*135	1
20	R3853-210	EVAPORATOR AIR GUIDE LF	AL WHITE T0.5*161.8*269	1
21	R3853-120	EVAPORATOR AIR GUIDE RH	AL WHITE T0.5*161.8*269	1
22	R832A-040	ASSY CASE CONTROL BOARD 49	BLUE	1
23	R514A-031	MASCOT	T3.8*90*64	1
24	R7109-780	MAIN PCB (115V. °F)	115V. REF 2010 Energy Star	1
25	R7203-020	DOOR SWITCH	WHT. SP201R-9D	2
26	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
27	R8329-060	EVAPORATOR FAN MOTOR ASSY	UL. 115V 60HZ	1
28	R7504-060	POWER TRANS	120V 60HZ. DT-1213	1
29	R8139-100	EVAPORATOR HOUSING ASSY	R48	1
30	R815A-030	ASSY UNIT	R49. 115V. REF	1
31	R816A-280	ASSY CROSS BAR	R49	1
32	R817A-330	ASSY DOOR LF-BM	R/F49 BLUE	1
33	R817A-340	ASSY DOOR RH-BM	R/F49 BLUE	1
34	R818A-300	ASSY GRILLE BOTTOM_49	R/F49	1
35	R8199-070	EVAPORATOR DRAIN WATER-L ASSY	R/F49	1
36	R827A-040	CABI FOAM ASSY 49	R49	1
37	R8329-070	CONDENSER FAN MOTOR ASSY	115V 60HZ	1
38	R7213-112	TEMP-DISPLAY SENSOR. REF	TH310H34GANR WHITE. L=200	1
39	R828A-052	ASSY HINGE TOP LF	STS304 T=4.0	1
40	R828A-030	ASSY HINGE BOTTOM LF	STS304 T=4.0	1



1-4. PART LIST : BSF49

NO	CODE-No	Title	Subject	Q'TY
1	R2113-580	COMPRESSOR PULL OUT. A	CU-PIPE. T0.7*OD9.52*1900	1
2	R2263-047	EVAPORATOR	F49	1
3	R858A-410	SHAFT TOP HINGE AS	SUM24L Ø15*114	2
4	C3379-240	SUPPORT	DSAA-9N	4
5	R3212-381	FRAME ASSY 49F	717.5*1408	1
6	R3314-282	TOP FRAME B/K	GI. T1.0*30*59.6	3
7	R3233-210	ASSY SHELF 49	MSWR10+PE	6
8	R3313-152	SHELF CLIP	POM. WHT	26
9	R315A-060	BRACKET GRILLE	GI. T1.0*110*102.5	2
10	R7303-412	DEFROST HEATER	UL 115V 600W	1
11	R3323-230	CASTER 4"	4" MOVE	2
12	R3323-240	CASTER 4"	4" STOP	2
13	R3373-630	SHELF STANDARD L	AL. T1.2*930	6
14	R828A-062	ASSY HINGE TOP RH	STS304 T=4.0	1
15	R828A-020	ASSY HINGE BOTTOM RH	STS304 T=4.0	1
16	R375A-030	STOPPER DOOR RH	POM (FW700S)	1
17	R375A-040	STOPPER DOOR LF	POM (FW700S)	1
18	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	2
19	R3813-351	COVER CAPACITOR	GI. T0.8*255.2*135	1
20	R3853-110	EVAPORATOR AIR GUIDE LF	AL WHITE T0.5*161.8*269	1
21	R3853-090	EVAPORATOR AIR GUIDE RH	AL WHITE T0.5*161.8*269	1
22	R3853-100	EVAPORATOR AIR GUIDE MID	AL WHITE. T0.5*161.8*243	1
23	R514A-031	MASCOT	T3.8*90*64	1
24	R7109-790	MAIN PCB (115. °F)	115V. FRE 2010 Energy Star	1
25	R7203-020	DOOR SWITCH	WHT. SP201R-9D	2
26	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
27	R7253-080	POWER RELAY	115V	1
28	R7504-060	POWER TRANS	120V 60HZ. DT-1213	1
29	R8139-080	EVAPORATOR HOUSING ASSY	F49	1
30	R8159-940	ASSY UNIT	F49. 115V. FRE	1
31	R816A-290	ASSY CROSS BAR	F49	1
32	R817A-330	ASSY DOOR LF-BM	R/F49 BLUE	1
33	R817A-340	ASSY DOOR RH-BM	R/F49 BLUE	1
34	R818A-300	ASSY GRILLE BOTTOM_49	R/F49	1
35	R8199-070	EVAPORATOR DRAIN WATER-L ASSY	R/F49	1
36	R827A-050	CABI FOAM ASSY 49	F49	1
37	R8329-060	EVAPORATOR FAN MOTOR ASSY	115V 60HZ	2
38	R832A-040	ASSY CASE CONTROL BOARD 49	BLUE	1
39	R7213-210	D-SENSOR	F23	1
40	R7253-052	EVAPORATOR THERMAL FUSE	F23	1
41	R7213-082	TEMP-THERMISTOR. FRE	F23	1
42	R828A-052	ASSY HINGE TOP LF	STS304 T=4.0	1
43	R828A-030	ASSY HINGE BOTTOM LF	STS304 T=4.0	1

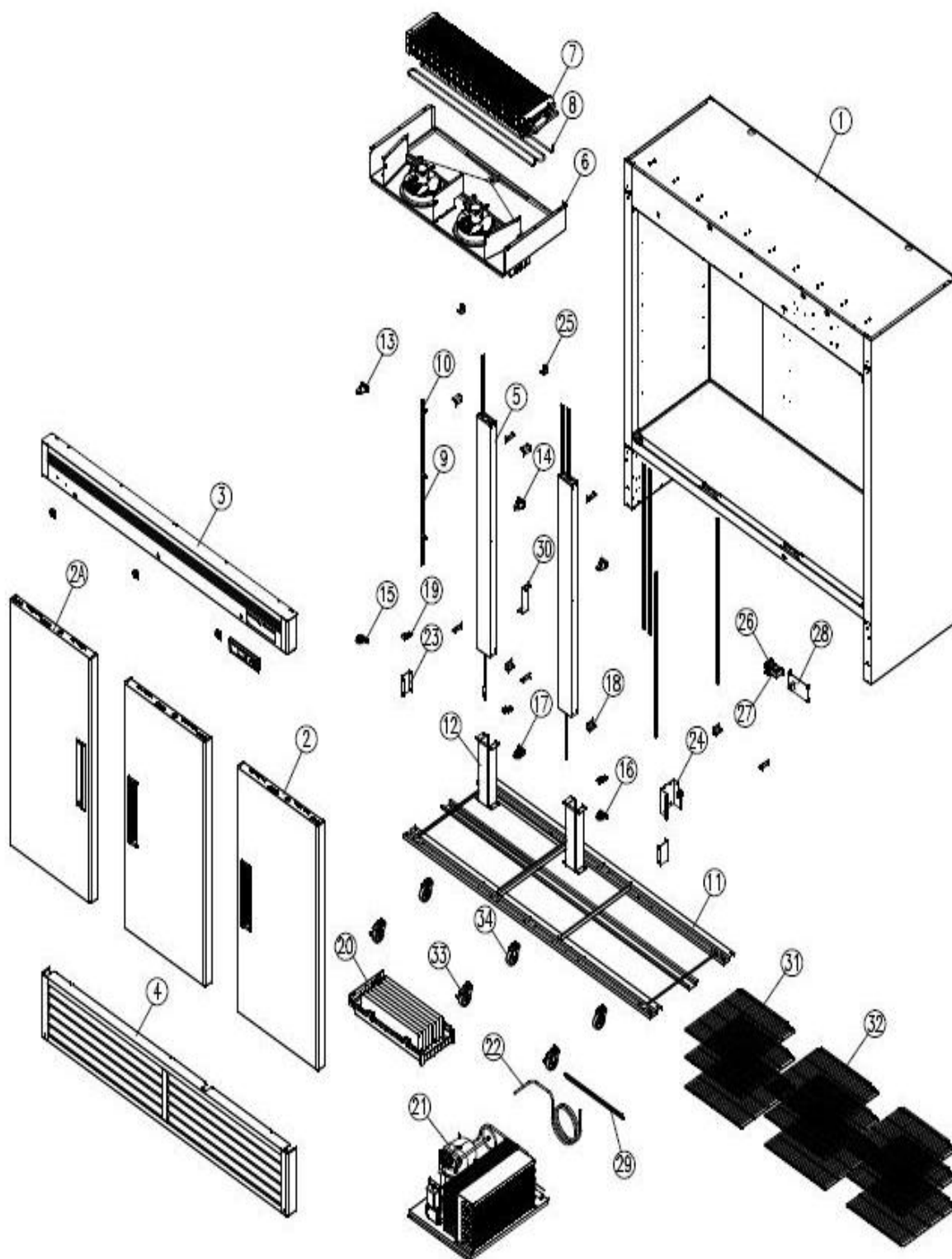
1. ASSEMBLY (BSR72)



1-5. PART LIST : BSR72

NO	CODE-No	Title	Subject	Q'TY
1	R814A-040	ASSY CABI PRE B72R	-	1
2	R817A-140	ASSY DOOR RH BM	-	2
2A	R817A-130	ASSY DOOR LF BM	-	1
3	R858A-560	TOP GRILLE AS B72	-	1
4	R858A-400	BOTTOM GRILLE AS	-	1
5	R816A-210	ASSY CROSS BAR(BM F)	-	2
6	R813A-050	ASSY EVA COVER B72R	-	1
7	R840A-020	ASSY EVA B72R	AL	1
8	R3373-630	SHELF STANDARD L	T1.2*930 mm	8
9	R835A-010	ASSY SHELF CLIP	POM. WHT	36
10	R337A-020	FRAME AS B72	PO. T=2.3 707.7*2057	1
11	R376A-020	SUPPORTER FRAME	GI T2.3 395.3*237.4	4
12	R828A-052	ASSY HINGE TOP LF	-	1
13	R828A-062	ASSY HINGE TOP RH	-	2
14	R828A-030	ASSY HINGE BOTTOM LF	-	1
15	R828A-020	ASSY HINGE BOTTOM RH	-	1
16	R828A-040	ASSY HINGE BOTTOM MID	-	1
17	R325A-030	COVER CORNER	ABS(GP35 BASF) 28.5*28.5*53	8
18	R3314-601	U-COVER BRACKET A	EGI 1.2T*81.61*20	3
19	R858A-530	VAPORI AS	-	1
20	R815A-240	ASSY UNIT B72F	-	1
21	R319A-030	PIPE PULL OUT B72	Φ 9.52 * 1914L	1
22	R315A-060	BRACKET GRILLE	GI T=1.0*110*102.5	2
23	R3813-351	COVER CAPACITOR	SGCC-M, T0.8*135*255.2	1
24	R3314-282	TOP FRAME BRACKET	GI, T1.0*30*59.6	3
25	R7253-040	POWER RELAY	G7L-2A-TUB (30281H0310)	1
26	R7504-060	POWER TRANS	120V/60HZ, DT-1213	1
27	R7109-790	MAIN PCB (115. °F)	115V. FRE 2010 Energy Star	1
28	R315A-100	BRACKET COMP BASE	T=1.0, 473*50.5	1
29	R3854-210	EVAPORATOR DRAIN HOSE GUIDE	GI T1.0X225X60	1
30	R3233-210	ASSY SHELF 49	MSWR10+PE	6
31	R834A-100	ASSY SHELF 72	MSWR10+PE	3
32	R3323-240	CASTER 4"	4" STOP	3
33	R3323-230	CASTER 4"	4" MOVE	3

1. ASSEMBLY (BSF72)

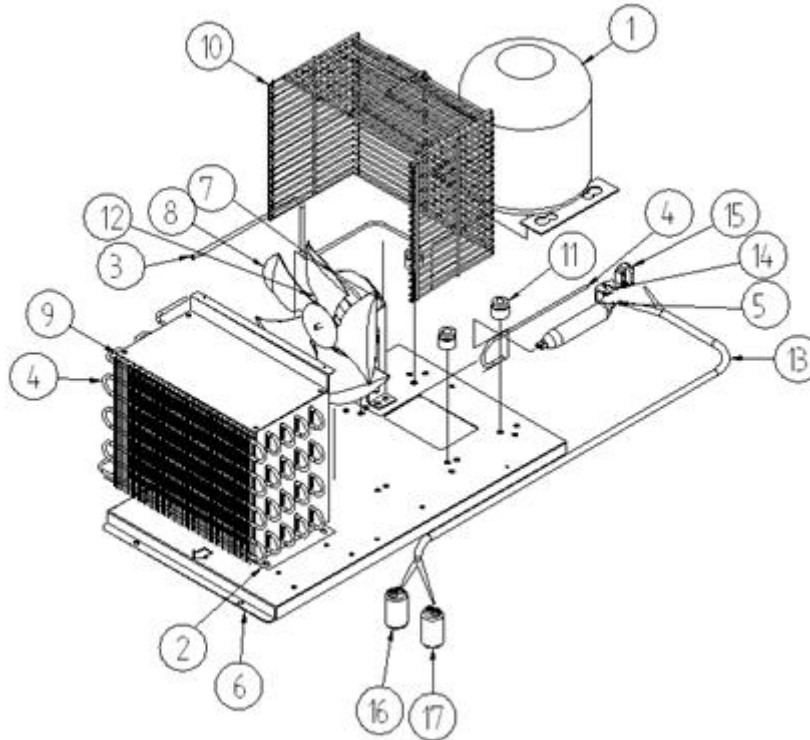


1-6. PART LIST : BSF72

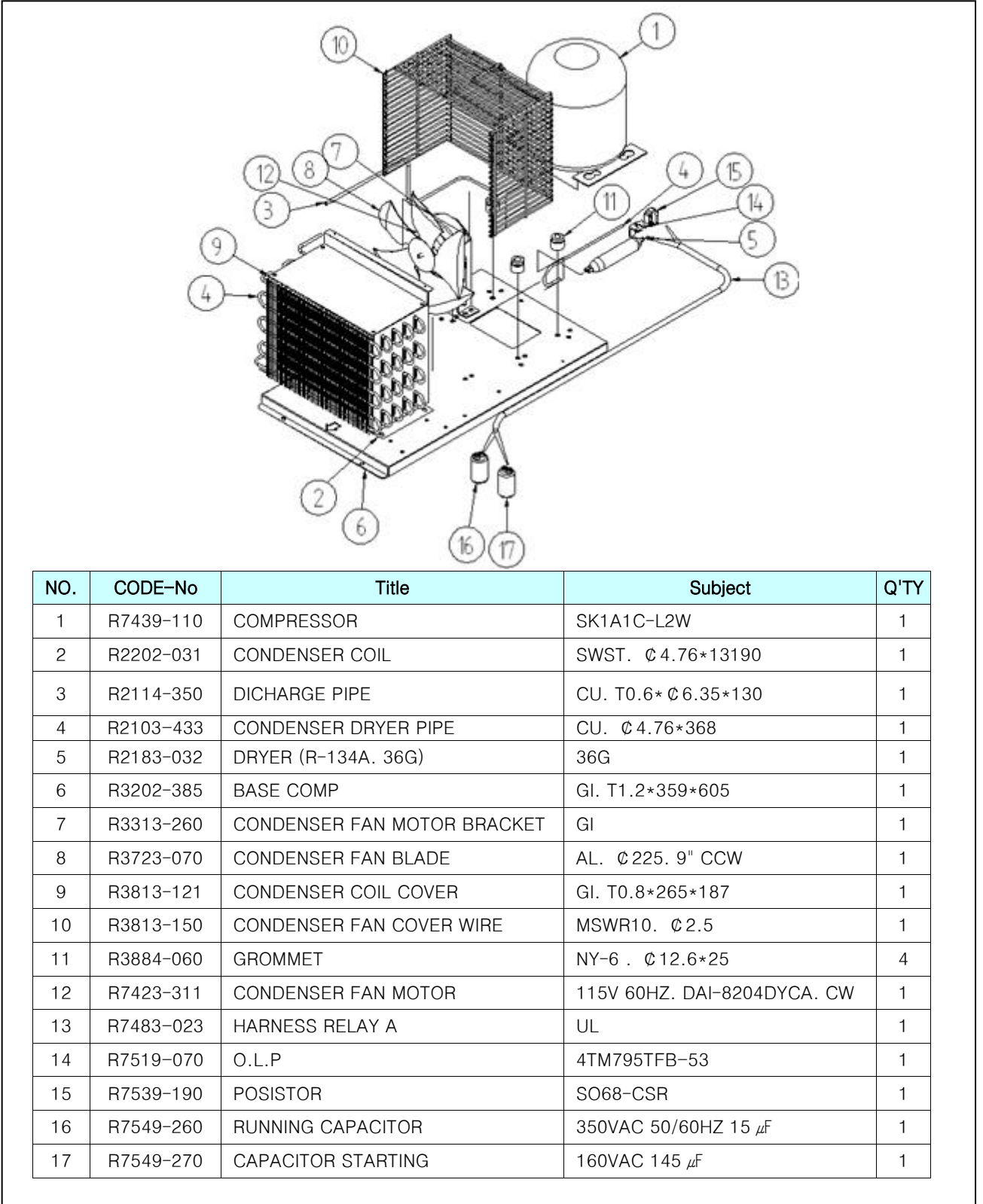
NO	CODE-No	Title	Subject	Q'TY
1	R814A-040	ASSY CABI PRE B72R	-	1
2	R817A-140	ASSY DOOR RH BM	-	2
2A	R817A-130	ASSY DOOR LF BM	-	1
3	R858A-560	TOP GRILLE AS B72	-	1
4	R858A-400	BOTTOM GRILLE AS	-	1
5	R816A-210	ASSY CROSS BAR(BM F)	-	2
6	R813A-050	ASSY EVA COVER B72R	-	1
7	R840A-030	ASSY EVA B72F	CU	1
8	R7313-440	DEFROST HEATER 60	115V 900W 14.7Ω	1
9	R3373-630	SHELF STANDARD L	T1.2*930 mm	8
10	R835A-010	ASSY SHELF CLIP	POM. WHT	36
11	R337A-020	FRAME AS B72	PO. T=2.3 707.7*2057	1
12	R376A-020	SUPPORTER FRAME	GI T2.3 395.3*237.4	4
13	R828A-052	ASSY HINGE TOP LF	-	1
14	R828A-062	ASSY HINGE TOP RH	-	2
15	R828A-030	ASSY HINGE BOTTOM LF	-	1
16	R828A-020	ASSY HINGE BOTTOM RH	-	1
17	R828A-040	ASSY HINGE BOTTOM MID	-	1
18	R325A-030	COVER CORNER	ABS(GP35 BASF) 28.5*28.5*53	8
19	R3314-601	U-COVER BRACKET A	EGI 1.2T*81.61*20	3
20	R858A-530	VAPOR AS	-	1
21	R815A-250	ASSY UNIT B72F	-	1
22	R319A-030	PIPE PULL OUT B72	Φ 9.52 * 1914L	1
23	R315A-060	BRACKET GRILLE	GI T=1.0*110*102.5	2
24	R3813-351	COVER CAPACITOR	SGCC-M, T0.8*135*255.2	1
25	R3314-282	TOP FRAME BRACKET	GI, T1.0*30*59.6	3
26	R7253-040	POWER RELAY	G7L-2A-TUB (30281H0310)	1
27	R7504-060	POWER TRANS	120V/60HZ, DT-1213	1
28	R7109-790	MAIN PCB (115. °F)	115V. FRE 2010 Energy Star	1
29	R315A-100	BRACKET COMP BASE	T=1.0, 473*50.5	1
30	R3854-210	EVAPORATOR DRAIN HOSE GUIDE	GI T1.0X225X60	1
31	R3233-210	ASSY SHELF 49	MSWR10+PE	6
32	R834A-100	ASSY SHELF 72	MSWR10+PE	3
33	R3323-240	CASTER 4"	4" STOP	3
34	R3323-230	CASTER 4"	4" MOVE	3

2. PARTS

2-1. UNIT ASSY (BSR23)



NO.	CODE-No	Title	Subject	Q'TY
1	R7439-110	COMPRESSOR	SK1A1C-L2W	1
2	R2202-031	CONDENSER COIL	SWST. $\varnothing 4.76 \times 13190$	1
3	R2114-350	DICHARGE PIPE	CU. T0.6* $\varnothing 6.35 \times 130$	1
4	R2103-433	CONDENSER DRYER PIPE	CU. $\varnothing 4.76 \times 368$	1
5	R2183-032	DRYER (R-134A. 36G)	36G	1
6	R3202-385	BASE COMP	GI. T1.2*359*605	1
7	R3313-260	CONDENSER FAN MOTOR BRACKET	GI	1
8	R3723-070	CONDENSER FAN BLADE	AL. $\varnothing 225. 9''$ CCW	1
9	R3813-121	CONDENSER COIL COVER	GI. T0.8*265*187	1
10	R3813-150	CONDENSER FAN COVER WIRE	MSWR10. $\varnothing 2.5$	1
11	R3884-060	GROMMET	NY-6 . $\varnothing 12.6 \times 25$	4
12	R7423-311	CONDENSER FAN MOTOR	115V 60HZ. DAI-8204DYCA. CW	1
13	R7523-053	HARNESS RELAY B	UL	1
14	R7519-070	O.L.P	4TM795TFB-53	1
15	R7539-190	POSISTOR	SO68-CSR	1
16	R7549-260	RUNNING CAPACITOR	350VAC 50/60HZ 15 μF	1
17	R7549-270	CAPACITOR STARTING	160VAC 145 μF	1

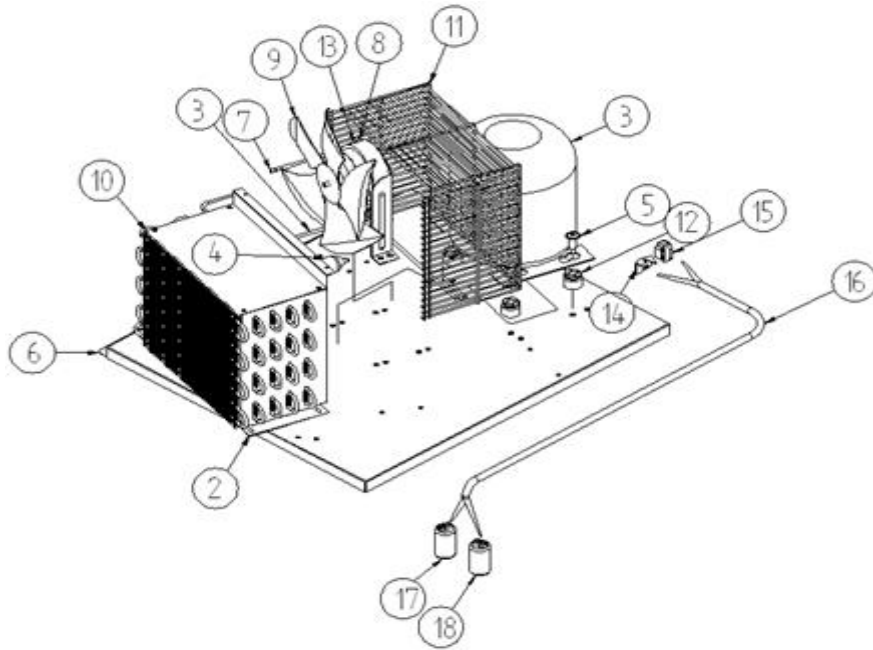


The diagram shows an exploded view of a refrigeration unit. The components are numbered as follows: 1. Compressor, 2. Condenser coil, 3. Discharge pipe, 4. Condenser dryer pipe, 5. Dryer, 6. Base plate, 7. Condenser fan motor bracket, 8. Condenser fan blade, 9. Condenser coil cover, 10. Condenser fan cover wire, 11. Grommet, 12. Condenser fan motor, 13. Harness relay, 14. O.L.P., 15. Posistor, 16. Running capacitor, and 17. Starting capacitor. The diagram illustrates the assembly of these components into a complete refrigeration unit.

NO.	CODE-No	Title	Subject	Q'TY
1	R7439-110	COMPRESSOR	SK1A1C-L2W	1
2	R2202-031	CONDENSER COIL	SWST. $\varnothing 4.76 \times 13190$	1
3	R2114-350	DICHARGE PIPE	CU. T0.6* $\varnothing 6.35 \times 130$	1
4	R2103-433	CONDENSER DRYER PIPE	CU. $\varnothing 4.76 \times 368$	1
5	R2183-032	DRYER (R-134A. 36G)	36G	1
6	R3202-385	BASE COMP	GI. T1.2*359*605	1
7	R3313-260	CONDENSER FAN MOTOR BRACKET	GI	1
8	R3723-070	CONDENSER FAN BLADE	AL. $\varnothing 225. 9" \text{ CCW}$	1
9	R3813-121	CONDENSER COIL COVER	GI. T0.8*265*187	1
10	R3813-150	CONDENSER FAN COVER WIRE	MSWR10. $\varnothing 2.5$	1
11	R3884-060	GROMMET	NY-6 . $\varnothing 12.6 \times 25$	4
12	R7423-311	CONDENSER FAN MOTOR	115V 60HZ. DAI-8204DYCA. CW	1
13	R7483-023	HARNESS RELAY A	UL	1
14	R7519-070	O.L.P	4TM795TFB-53	1
15	R7539-190	POSISTOR	SO68-CSR	1
16	R7549-260	RUNNING CAPACITOR	350VAC 50/60HZ 15 μF	1
17	R7549-270	CAPACITOR STARTING	160VAC 145 μF	1

2. PARTS

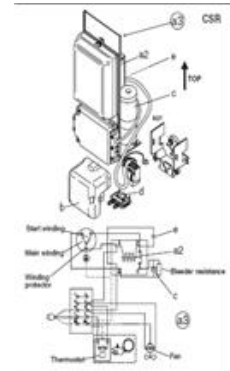
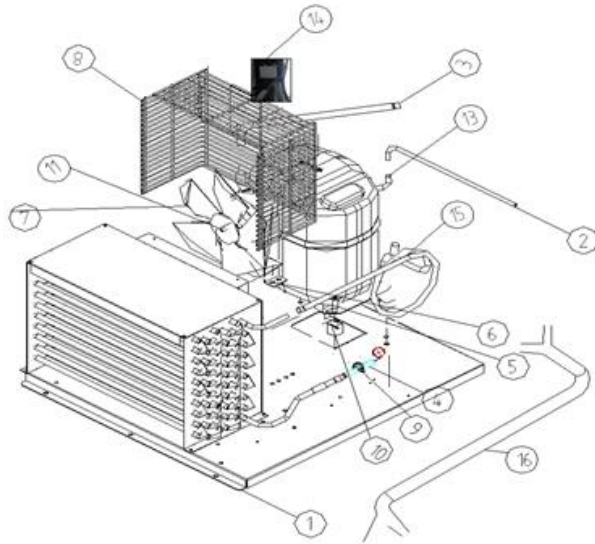
2-1. UNIT ASSY (BSR49)



NO.	CODE-No	Title	Subject	Q'TY
1	R7439-110	COMPRESSOR	SK1A1C-L2W	1
2	R2202-031	CONDENSER COIL	SWST. $\varnothing$ 4.76*13190	1
3	R2109-670	CONDENSER DRYER PIPE	CU. $\varnothing$ 4.76*321	1
4	R2183-032	DRYER (R-134A. 36G)	36G	1
5	R3004-270	COMPRESSOR BOLT	STS. M6*30Y. $\varnothing$ 10	4
6	R3202-421	BASE COMP	GI. T1.2*645*574	1
7	R2103-930	CONDENSER PIPE	T0.7*OD4.86*654. CU	1
8	R3313-260	CONDENSER FAN MOTOR BRACKET	GI	1
9	R3723-070	CONDENSER FAN BLADE	AL. $\varnothing$ 225. 9" CCW	1
10	R3813-121	CONDENSER COIL COVER	GI. T0.8*265*187	1
11	R3813-150	CONDENSER FAN COVER WIRE	MSWR10. $\varnothing$ 2.5	1
12	R3884-030	GROMMET COMP	NR-RUBBER. BLK	4
13	R7423-311	CONDENSER FAN MOTOR	115V 60HZ. DAI-8204DYCA. CW	1
14	R7483-033	HARNESS RELAY D	UL	1
15	R7519-070	O.L.P	4TM795TFB-53	1
16	R7539-190	POSISTOR	SO68-CSR	1
17	R7549-260	RUNNING CAPACITOR	350VAC 50/60HZ 15 μ F	1
18	R7549-270	CAPACITOR STARTING	160VAC 145 μ F	1

2. PARTS

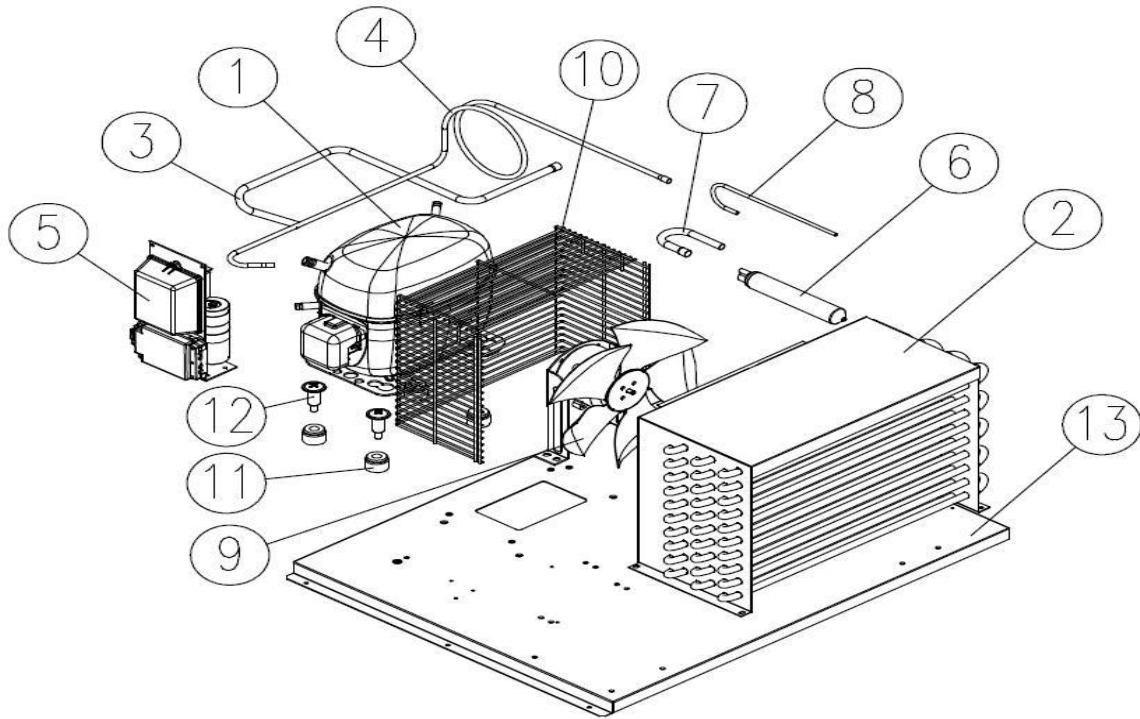
2-1. UNIT ASSY (BSF49)



NO.	CODE-No	Title	Subject	Q'TY
1	R3202-397	BASE COMP	GI. T1.2*555*614	1
2	R2104-460	COMPRESSOR CHARGING PIPE	CU-PIPE. OD6.35*T0.7*200	1
3	R2113-580	COMPRESSOR PULL OUT		1
4	R2183-200	DRIER ASSY	UL	1
5	R3004-270	COMPRESSOR BOLT	STS. M6*30Y. Ø10	4
6	R3313-260	CONDENSER FAN MOTOR BRACKET	GI	1
7	R3723-070	CONDENSER FAN BLADE	AL. Ø225. 9" CCW	1
8	R3813-160	CONDENSER FAN COVER WIRE	MSWR. Ø2.5	1
9	R3834-130	CABLE CLAMP	DA-18N NYLON-66	1
10	R3884-030	GROMMET COMP	NR-RUBBER. BLK	4
11	R7423-311	CONDENSER FAN MOTOR	UL	1
12	R7439-600	COMPRESSOR	SC18CLX2	1
13	R7549-280	STARTING CAPACITOR	125~165V 410 μ F	1
14	R7549-290	RUNNING CAPACITOR	280V 23.5 μ F	1
15	R2103-474	CONDENSER CONNECTOR	UL. OD9.52*T0.7*795	1
16	R7483-014	HARNESS RELAY C	UL	1

2. PARTS

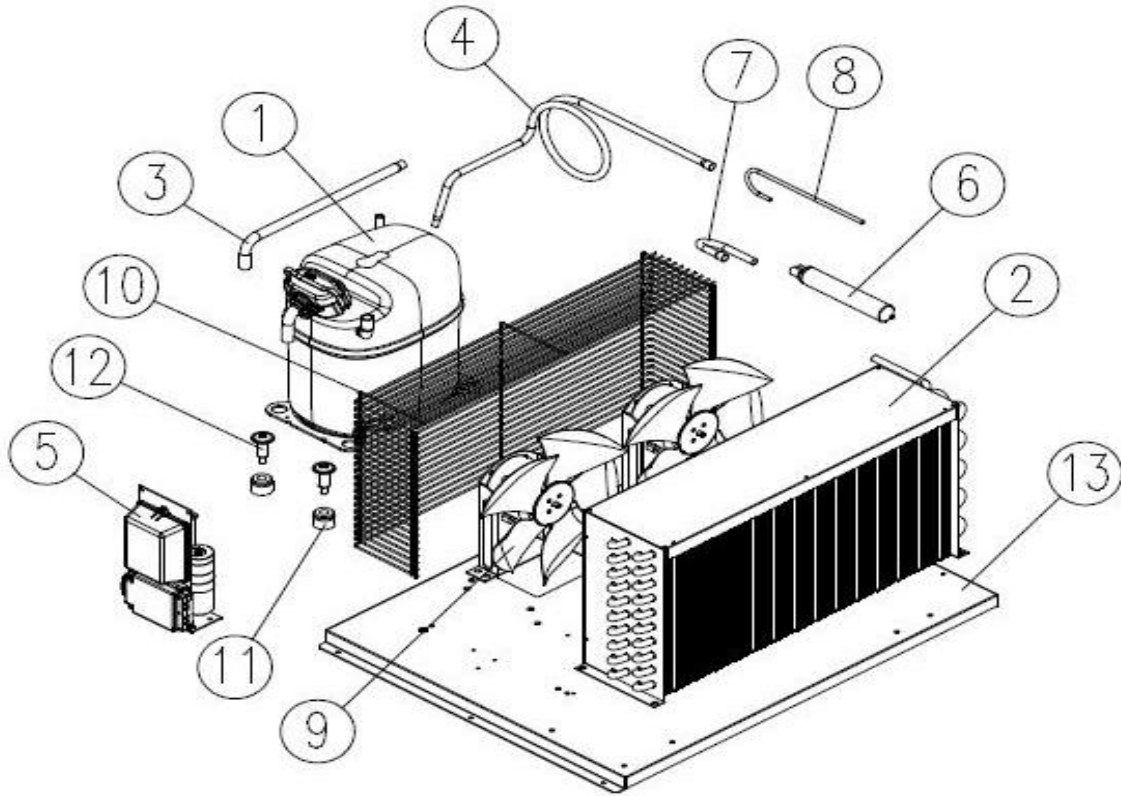
2-1. UNIT ASSY (BSR72)



NO.	CODE-No	Title	Subject	Q'TY
1	R714A-010	COMPRESSOR	SC18G	1
2	R2272-013	CONDENSER COIL	370*184	1
3	R319A-020	PIPE PULL OUT B	Φ 9.52	1
4	R2113-570	DISCHARGE CONNECTOR	CU PIPE. Φ6.35*T0.7*1215	1
5	R7539-200	POSISTOR	J531Q35E330M3852. 33Ω. 385V	1
6	R2183-200	DRYER ASSY	Φ25.73*0.8T*169. CU-PIPE	1
7	R319A-010	PIPE COND OUTLET	C1220T	1
8	R2104-981	PIPE DRYER	-	1
9	R8329-070	CONDENSER FAN MOTOR ASSY	115V 60 Hz	1
10	R3813-791	FAN COVER WIRE	MSWR. Φ2.5	1
11	R3884-030	GROMMET COMP	NR-RUBBER,BLK	4
12	R3004-270	COMPRESSOR BOLT	M6*30Y Φ10	4
13	R312A-010	BASE COMP	GI T=1.2 700*556.2	1

2. PARTS

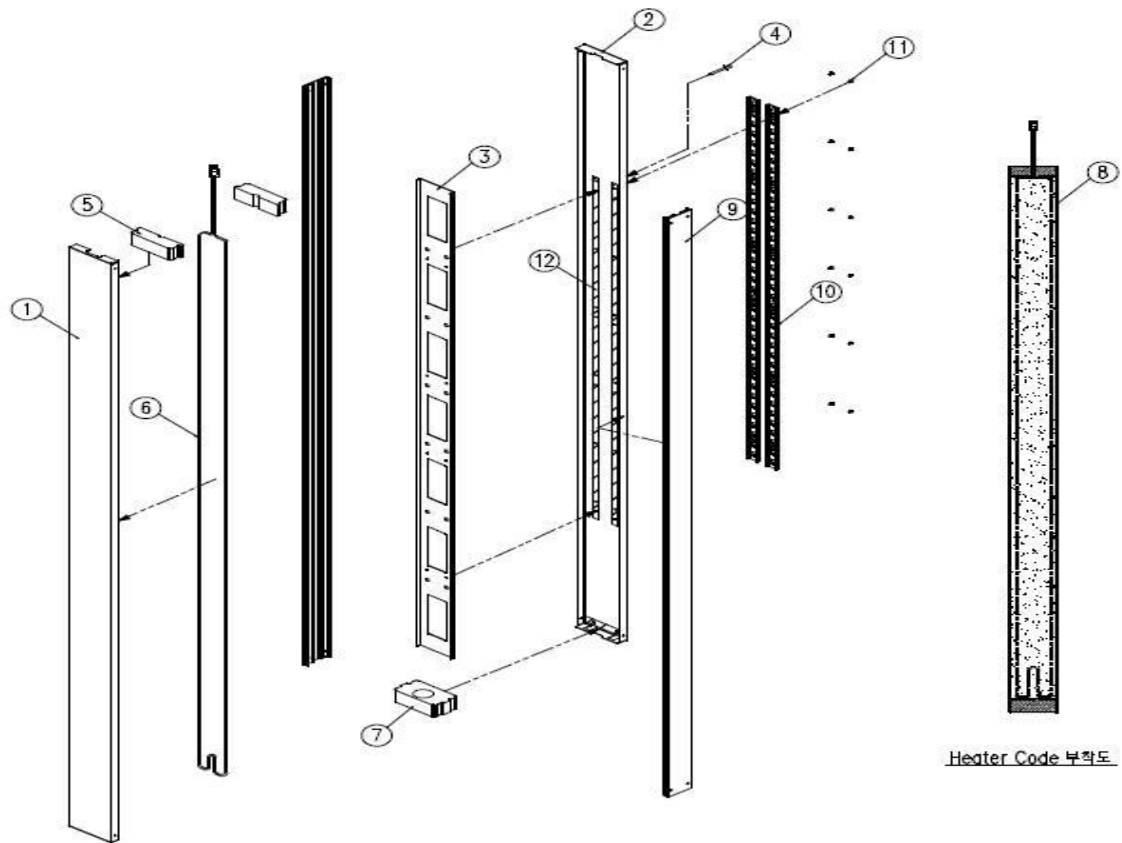
2-1. UNIT ASSY (BSF72)



NO.	CODE-No	Title	Subject	Q'TY
1	R714A-020	COMPRESSOR	GS26CLX	1
2	R2272-030	CONDENSER COIL PIN	CU,545*270*140	1
3	R2114-330	COMPRESSOR PULL OUT, B	T0.7*12.7	1
4	R2113-570	DISCHARGE CONNECTOR	CU PIPE. Ø 6.35*T0.7*1215	1
5	R7539-200	POSISTOR	J531Q35E330M3852. 33Ω. 385V	1
6	R2183-200	DRYER ASSY	Ø 25.73*0.8T*169. CU-PIPE	1
7	R319A-010	PIPE COND OUTLET	C1220T	1
8	R2104-981	PIPE DRYER	-	1
9	R8329-070	CONDENSER FAN MOTOR ASSY	115V 60 Hz	2
10	R3813-770	FAN COVER WIRE-B	MSWR10, OD2.6	1
11	R3884-030	GROMMET COMP	NR-RUBBER,BLK	4
12	R3004-270	COMPRESSOR BOLT	M6*30Y Ø 10	4
13	R312A-010	BASE COMP	GI T=1.2 700*556.2	1

2. PARTS

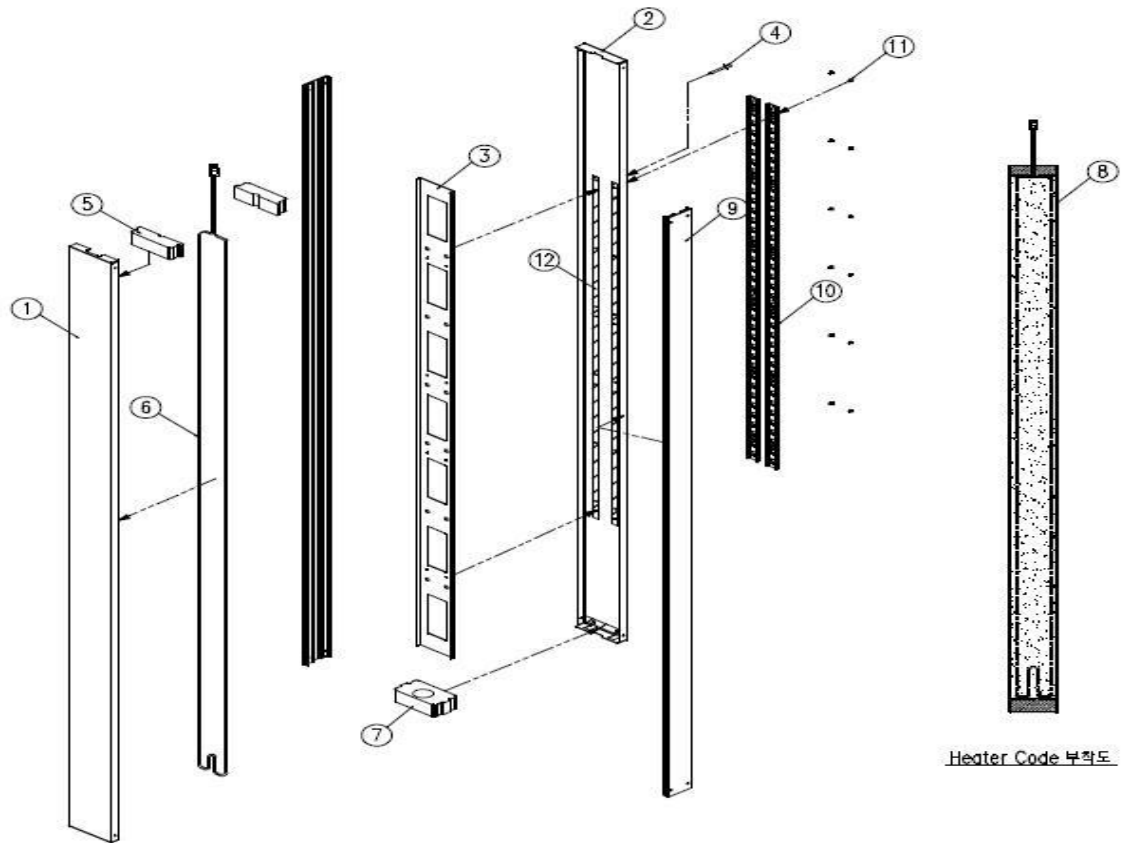
2-2. CROSS BAR ASSY (49R,72R)



NO.	CODE-No	Title	Subject	Q'TY
1	R359A-380	Plate Cross Bar Front	STS443CT T=0.5 1345.2*118.2	1
2	R359A-390	Plate Cross Bar Rear	STS443CT T=0.5 1354.2*118.2	1
3	R365A-021	Reinf Cross Bar T72	GI T0.8*1180*103.6	1
4	R3069-010	Rivet Blind	Ø3.2	4
5	R320A-010	Cap End Top T72	EPS T30*110*24.5	2
6	R7303-125	Heater Cord Cross Bar	30w	1
7	R320A-020	Cap End Bottom T72	EPS T30*90*49	1
8	R1129-310	Tape Aluminium	W80	2.5M
9	R368A-240	SASH CROSS BM	ABS L=1315MM	2
10	R3373-630	Shelf Standard L	T1.2*930mm	2
11	R4213-030	Screw FH M4*16 직결	M4X16	12
12	R1129-010	Kraft Tape	W25	2.4

2. PARTS

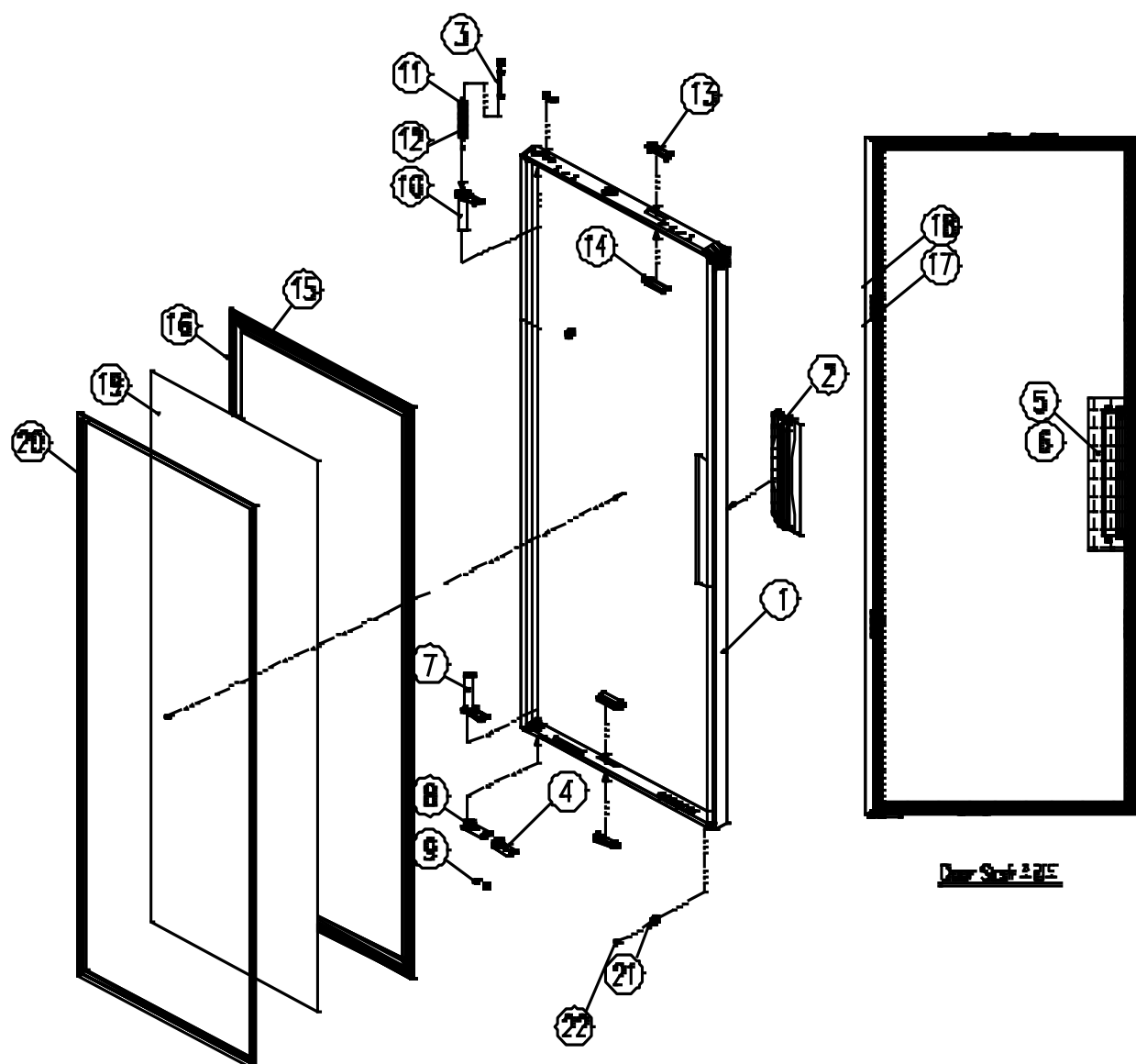
2-2. CROSS BAR ASSY (49F,72F)



NO.	CODE-No	Title	Subject	Q'TY
1	R359A-380	Plate Cross Bar Front	STS443CT T=0.5 1345.2*118.2	1
2	R359A-390	Plate Cross Bar Rear	STS443CT T=0.5 1354.2*118.2	1
3	R365A-021	Reinf Cross Bar T72	GI T0.8*1180*103.6	1
4	R3069-010	Rivet Blind	Ø3.2	4
5	R320A-010	Cap End Top T72	EPS T30*110*24.5	2
6	R7303-115	Heater Cord Cross Bar	38w	1
7	R320A-020	Cap End Bottom T72	EPS T30*90*49	1
8	R1129-310	Tape Aluminium	W80	2.5M
9	R368A-240	SASH CROSS BM	ABS L=1315MM	2
10	R3373-630	Shelf Standard L	T1.2*930mm	2
11	R4213-030	Screw FH M4*16 직결	M4X16	12
12	R1129-010	Kraft Tape	W25	2.4

2. PARTS

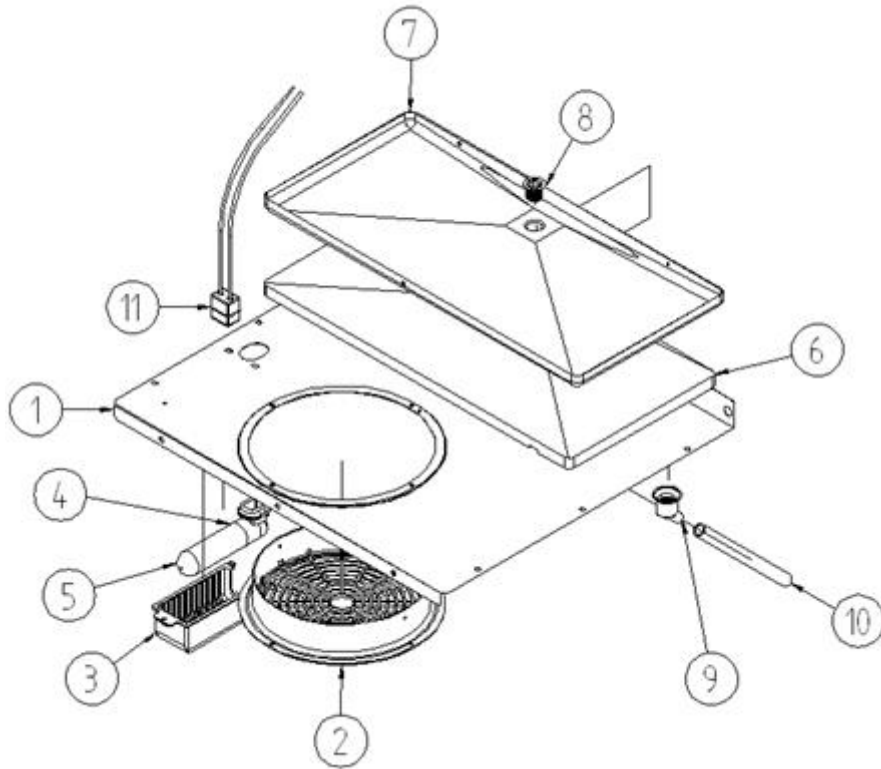
2-3. DOOR ASSY (BSR/F23, BSR/F49, BSR/F72)



NO.	CODE-No	Title	Subject	Q'TY
1	R359A-410	PLATE DOOR BLUE	STS430-#4 T0.5*1514*823	1
2	R342A-011	HANDEL DOOR	PC-ABS (GN5201F)	1
3	R858A-410	SHAFT TOP HINGE AS	SUM24L Ø15*114	2
4	R375A-041	STOPPER DOOR LF	POM (700S)	1
5	R1129-140	COTTON TAPE (W50)	W50	1.5M
6	R1129-060	AL TAPE	W50	1.5M
7	R313A-011	BODY DOOR SPRING	ZNDC 97*70*26	1
8	R375A-031	STOPPER DOOR RH	POM (700S)	1
9		SCREW	FH5*15	4
10	R313A-011	BODY DOOR SPRING	ZNDC 97*70*26	1
11	R374A-020	SPRING DOOR RH	SW-C Ø2.3	1
12	R374A-010	SPRING DOOR LF	SW-C Ø2.3	1
13	R3932-360	CAP DOOR LOCK	ABS 69.8*21.8	2
14	R3932-380	BODY DOOR LOCK	ABS 78*60*10.3	2
15	R368A-050	SASH DOOR ST72	ABS L=643	2
16	R368A-260	SASH DOOR L BM	ABS L=1386	2
17	R1129-140	COTTON TAPE	W50	0.5M
18	R1129-160	TAPE TWO FACE		4.2M
19	R359A-400	PLATE DOOR REAR BM	STS443CT T0.4*1331*588	1
20	R338A-040	GASKET DOOR BM	난연 PVC 1353*610	1
21	R1254-051	DOOR RUBBER LEG	SILICON Ø16*12	2
22	R4213-030	SCREW	FH M4*16	2

2. PARTS

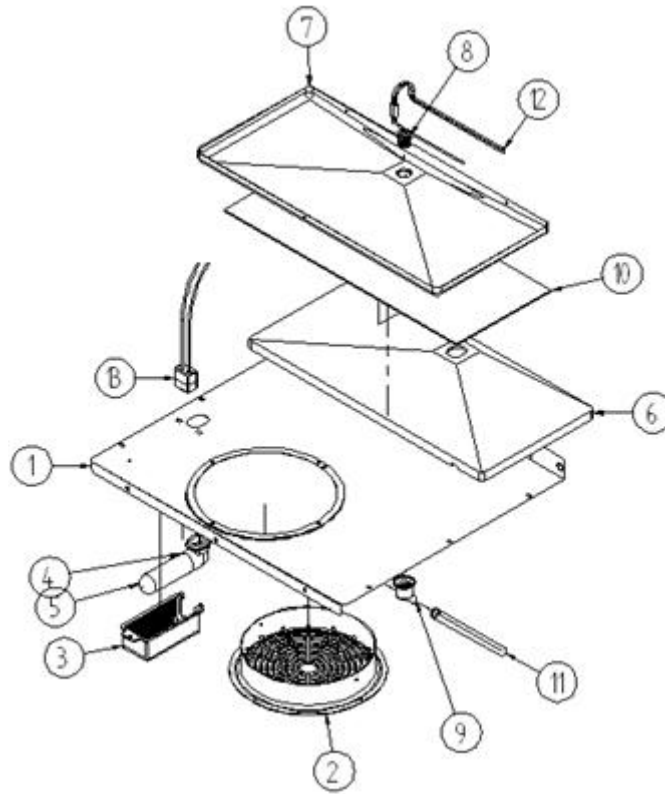
2-4. EVAPORATOR HOUSING ASSY (BSR23)



NO.	CODE-No	Title	Subject	Q'TY
1	R3813-472	EVAPORATOR HOUSING	STS443CT. T0.5X575X558	1
2	R3812-141	EVAPORATOR FAN MOTMOR GUARD	HIPS (VH-1800EX). UL	1
3	R325A-041	LAMP COVER	MIPS(HIPS B-5676). WHT	1
4	R7393-021	LAMP SOCKET	250V 660W	1
5	R7394-010	LAMP BULB	25T10. 120V 25W	1
6	R1143-202	INSUL DRAIN 23	EPS. 17*530*256	1
7	R3743-051	EVAPORATOR DRAIN PAN SMALL	AL. T0.8	1
8	R3744-091	EVAPORATOR DRAIN ELBOW UPP	PP. WHT	1
9	R3744-101	EVAPORATOR DRAIN ELBOW LOW	PP. WHT	1
10	R2124-021	EVAPORATOR DRAIN HOSE A	SILICON. CLEAR. 16*12. L=213	1
11	R7403-111	HARNESS LAMP, L	UL	1

2. PARTS

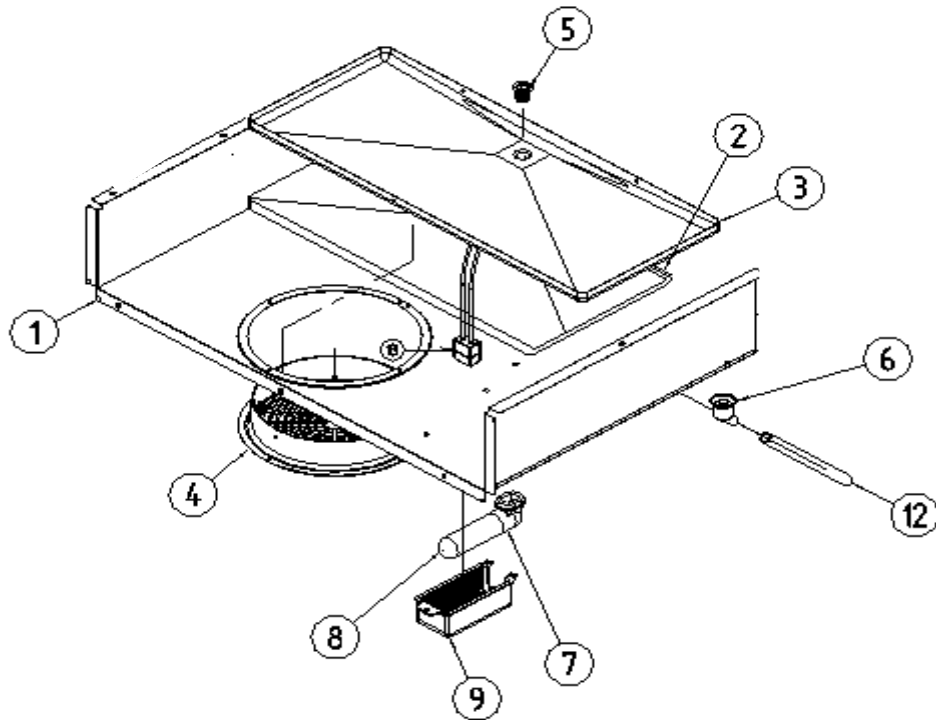
2-4. EVAPORATOR HOUSING ASSY (BSF23)



NO.	CODE-No	Title	Subject	Q'TY
1	R3813-472	EVAPORATOR HOUSING	STS443CT. T0.5X575X558	1
2	R3812-141	EVAPORATOR FAN MOTMOR GUARD	HIPS (VH-1800EX). UL	1
3	R325A-041	LAMP COVER	MIPS(HIPS B-5676). WHT	1
4	R7393-021	LAMP SOCKET	250V 660W	1
5	R7394-010	LAMP BULB	25T10. 120V 25W	1
6	R1143-202	INSUL DRAIN 23	EPS. 17*530*256	1
7	R3743-051	EVAPORATOR DRAIN PAN SMALL	AL. T0.8	1
8	R3744-091	EVAPORATOR DRAIN ELBOW UPP	PP. WHT	1
9	R3744-101	EVAPORATOR DRAIN ELBOW LOW	PP. WHT	1
10	R7303-174	HEATER DRAIN PAN	115V 90W. UL	1
11	R2124-021	EVAPORATOR DRAIN HOSE A	SILICON. CLEAR. 16*12.L=213	1
12	R8393-030	HEATER CORD DRAIN HOSE ASSY	UL 10W	1
13	R7403-111	HARNESS LAMP, L	UL	1

2. PARTS

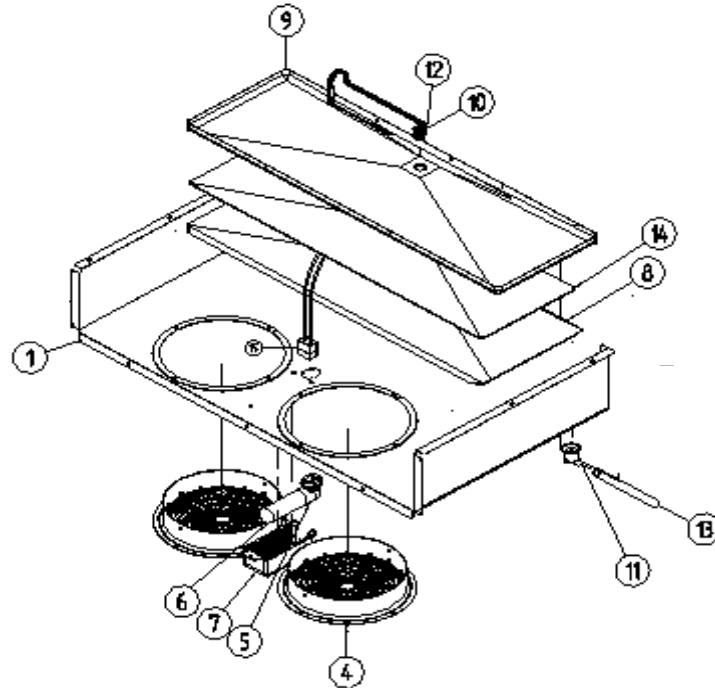
2-4. EVAPORATOR HOUSING ASSY (BSR49)



NO.	CODE-No	Title	Subject	Q'TY
1	R3813-313	EVAP COVER	STS443CT. T0.8X1048X560	1
2	R1143-222	INSUL DRAIN R49	EPS. 17*622*256	1
3	R3743-041	EVAPORATOR DRAIN PAN MID	AL. T0.8	1
4	R3812-141	EVAPORATOR FAN MOTMOR GUARD	HIPS (VH-1800EX). UL	1
5	R3744-091	EVAPORATOR DRAIN ELBOW UPP	PP. WHT	1
6	R3744-101	EVAPORATOR DRAIN ELBOW LOW	PP. WHT	1
7	R7393-021	LAMP SOCKET	250V 660W	1
8	R7394-010	LAMP BULB	25T10. 120V 25W	1
9	R325A-041	LAMP COVER	MIPS(HIPS B-5676). WHT	1
12	R2124-021	EVAPORATOR DRAIN HOSE A	SILICON. CLEAR. 16*12.L=213	1
13	R7403-110	HARNESS LAMP, L	UL	1

2. PARTS

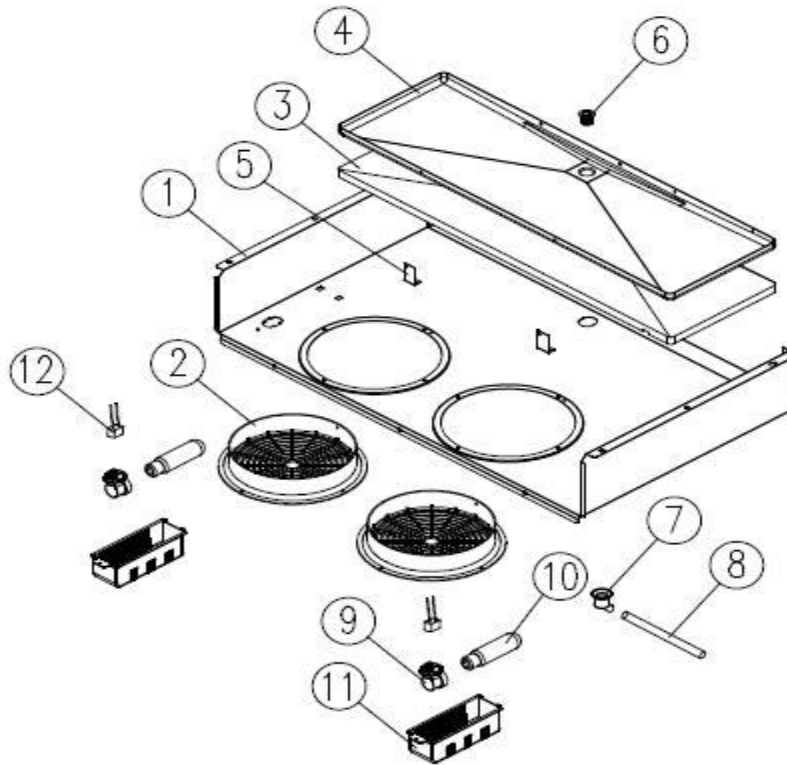
2-4. EVAPORATOR HOUSING ASSY (BSF49)



NO.	CODE-No	Title	Subject	Q'TY
1	R3813-323	EVAP COVER	STS443CT. T0.5*1191X560	1
4	R3812-141	EVAPORATOR FAN MOTMOR GUARD	HIPS (VH-1800EX). UL	2
5	R7393-021	LAMP SOCKET	250V 660W	1
6	R7394-010	LAMP BULB	25T10. 120V 25W	1
7	R325A-041	LAMP COVER	MIPS(HIPS B-5676). WHT	1
8	R1143-212	INSUL DRAIN 49	EPS. 17*800*256	1
9	R3743-031	EVAPORATOR DRAIN PAN-LARGE F49	AL. T0.8	1
10	R3744-091	EVAPORATOR DRAIN ELBOW UPP	PP. WHT	1
11	R3744-101	EVAPORATOR DRAIN ELBOW LOW	PP. WHT	1
12	R8393-040	HEATER CORD DRAIN HOSE ASSY	UL 10W	1
13	R2124-021	EVAPORATOR DRAIN HOSE A	SILICON. CLEAR. 16*12.L=213	1
14	R7303-184	HEATER DRAIN PAN	115V 140W	1
15	R7403-111	HARNES LAMP, L	UL	1

2. PARTS

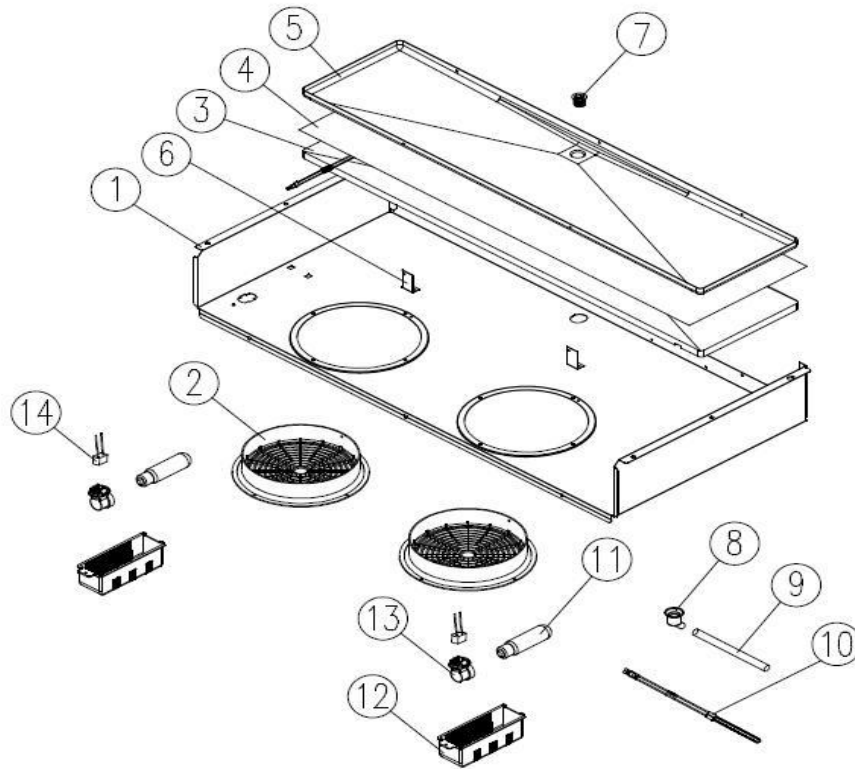
2-4. EVAPORATOR HOUSING ASSY (BSR72)



NO.	CODE-No	Title	Subject	Q'TY
1	R325A-070	COVER EVA B72R	STS443CT T0.5 1191*560	1
2	R3812-141	EVAPORATOR FAN MOTOR GUARD	HIPS (VH-1800EX)	2
3	R1143-212	EVAPORATOR DRAIN INSUL-L	T17*256*800, FOAM-PS	1
4	R3743-031	EVAPORATOR DRAIN PAN-LARGE	AL+COATING	1
5	R3314-350	BRACKET-DRAIN	STS304-2B, T0.5*25*57(P)	2
6	R3744-090	EVAPORATOR DRAIN ELBOW-UPP	PP WHITE(30209L0200)	1
7	R3744-100	EVAPORATOR DRAIN ELBOW-LOW	PP WHITE(30225L0100)	1
8	R2124-021	EVAPORATOR DRAIN HOSE A	SILICON. CLEAR. 16*12.L=213	1
9	R7393-021	LAMP SOCKET	L-125B 660W 20V	2
10	R7394-010	LAMP BULB	25T10. 120V 25W	2
11	R325A-041	LAMP COVER	MIPS(HIPS B-5676). WHT	2
12	R7403-111	HARNESS LAMP, L	UL	2

2. PARTS

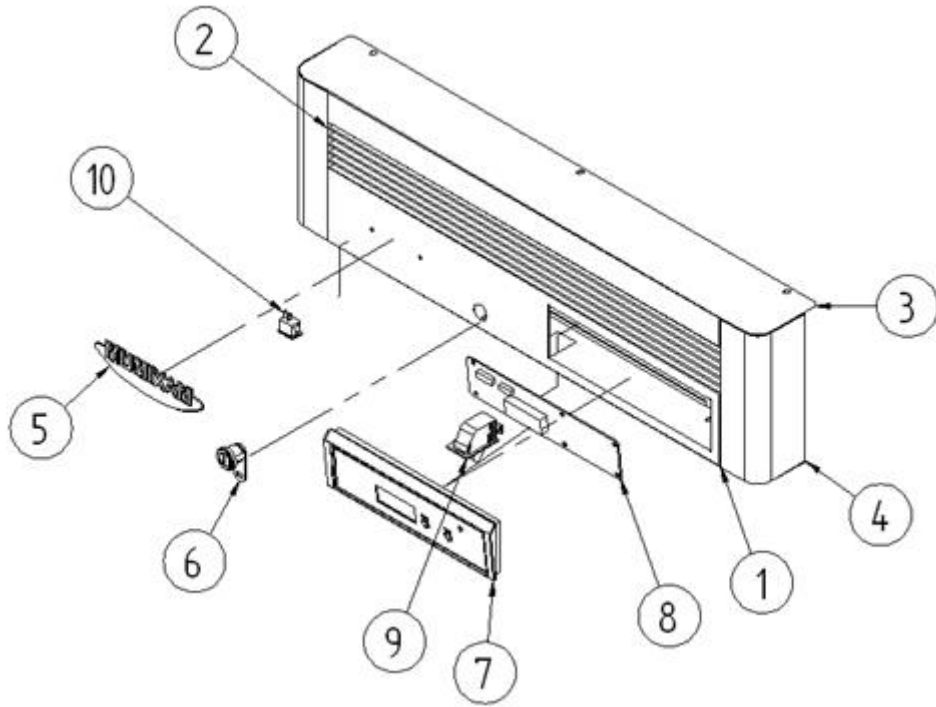
2-4. EVAPORATOR HOUSING ASSY (BSF72)



NO.	CODE-No	Title	Subject	Q'TY
1	R325A-060	COVER EVA B72F	STS443CT T=0.5*1405.8*559.7	1
2	R3812-141	EVAPORATOR FAN MOTOR GUARD	HIPS (VH-1800EX)	2
3	R1143-380	EVAPORATOR DRAIN INSUL-L	T17*256*800, FOAM-PS	1
4	R7313-431	HEATER DRAIN PAN	115V 90W	1
5	R3743-240	EVAP DRAIN PAN,L	AL,T0.8*1040*258,GST-72TF	1
6	R3314-350	BRACKET-DRAIN	STS304-2B, T0.5*25*57(P)	2
7	R3744-090	EVAPORATOR DRAIN ELBOW-UPP	PP WHITE(30209L0200)	1
8	R3744-100	EVAPORATOR DRAIN ELBOW-LOW	PP WHITE(30225L0100)	1
9	R2124-021	EVAPORATOR DRAIN HOSE A	SILICON. CLEAR. 16*12.L=213	1
10	R7313-490	HEATER CORD DRAIN HOSE	115V 10W	1
11	R7394-010	LAMP BULB	25T10. 120V 25W	2
12	R325A-041	LAMP COVER	MIPS(HIPS B-5676). WHT	2
13	R7393-021	LAMP SOCKET	L-125B 660W 20V	2
14	R7403-111	HARNESS LAMP, L	UL	2

2. PARTS

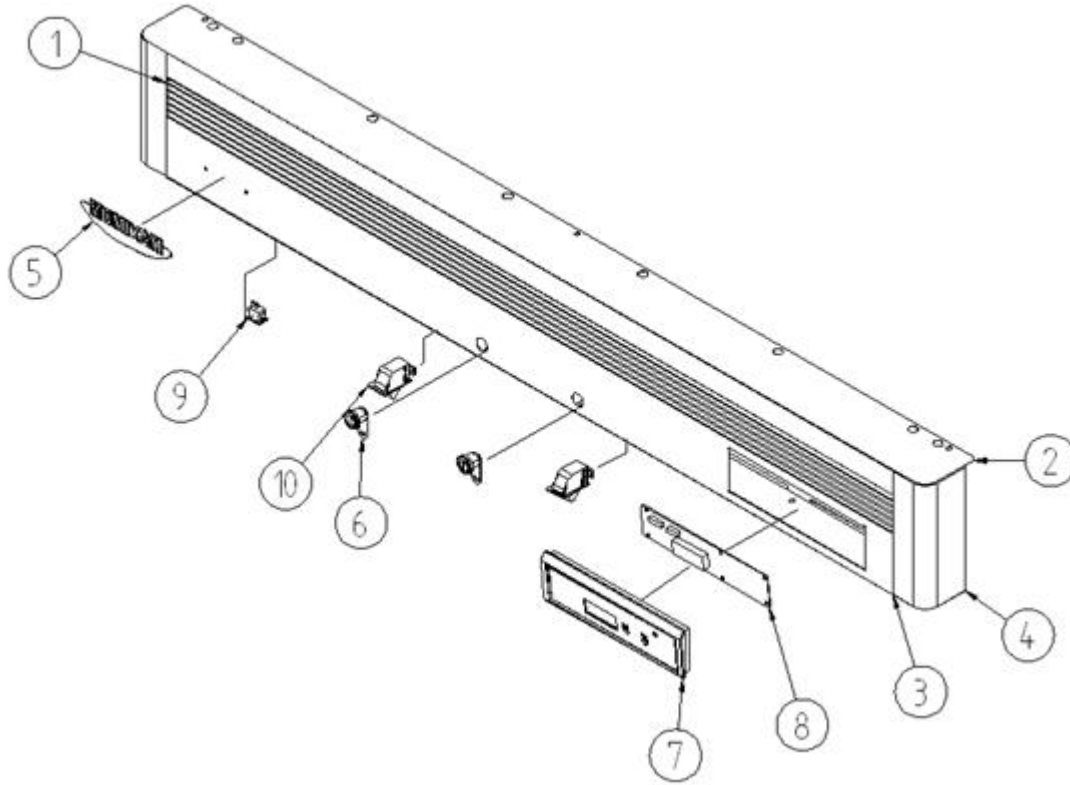
2-5. TOP FRAME ASSY (BSR/BSF23)



NO.	CODE-No	Title	Subject	Q'TY
1	R359A-600	PLATE FRAME LOW	STS430-#4. T0.6*199*679	1
2	R3153-151	TOP FRAME MID PIECE-S	ABS. BLK. L=571	1
3	R359A-480	PLATE FRAME UPP	STS430-#4. T0.6*679*159.3	1
4	R359A-430	PLATE TOP GRILL SIDE	STS430-#4. T0.6*209*148	2
5	R514A-031	MASCOT	T3.8*90*64	1
6	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	1
7	R4142-122	CONTROL BOARD (DIGITAL DISPLAY)	ABS. BLK. T2*242*72	1
8	R7113-210	DISPLAY PCB (°F)	88 SEGMENT. °F	1
9	R7203-020	DOOR SWITCH	WHT. SP201R-9D	1
10	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
11	R818A-340	ASSY GRILL TOP	23 BLUE	1

2. PARTS

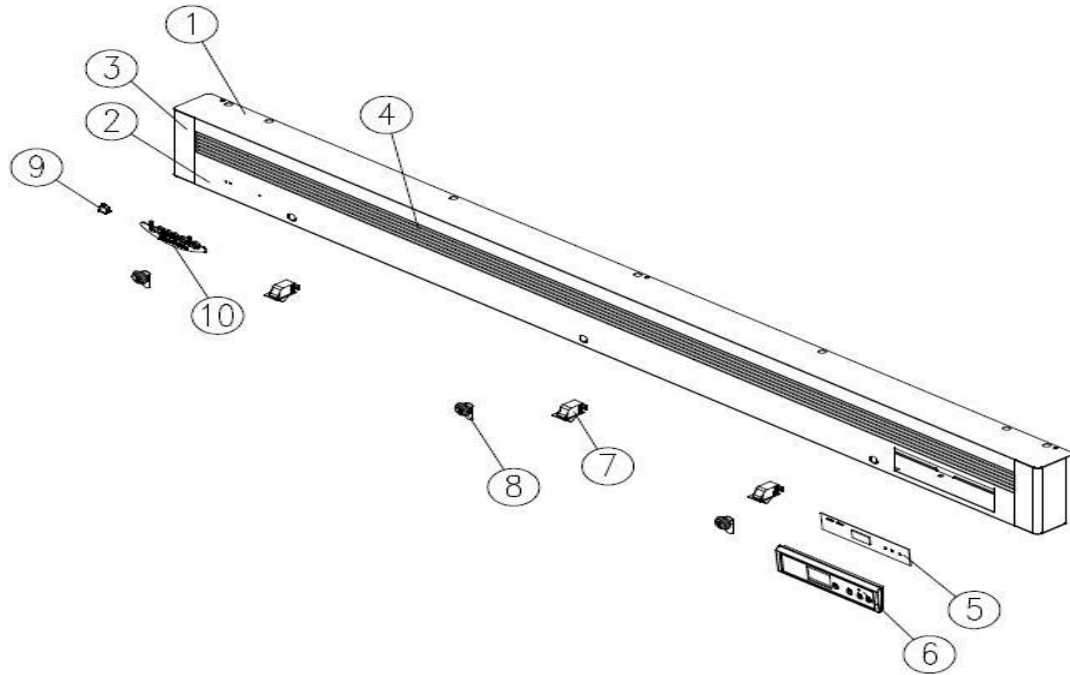
2-5. TOP FRAME ASSY (BSR/BSF49)



NO.	CODE-No	Title	Subject	Q'TY
1	R3153-141	TOP FRAME MID PIECE, L	ABS, BLK, L=1260	1
2	R359A-490	TOP FRAME UPP 49	STS430-#4. T0.6*1368*159.3	1
3	R359A-610	PLATE FRAME LOW_49	STS430-#4. T0.6*188*1368	1
4	R359A-430	PLATE TOP GRILL SIDE	STS430-#4. T0.6*209*148	2
5	R514A-031	MASCOT	T3.8*90*64	1
6	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	2
7	R4142-122	CONTROL BOARD (DIGITAL DISPLAY)	ABS. BLK. T2*242*72	1
8	R7113-210	DISPLAY PCB (°F)	88 SEGMENT. °F	1
9	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
10	R7203-020	DOOR SWITCH	WHT. SP201R-9D	2
11	R818A-350	ASSY GRILL TOP	49 BLUE	1

2. PARTS

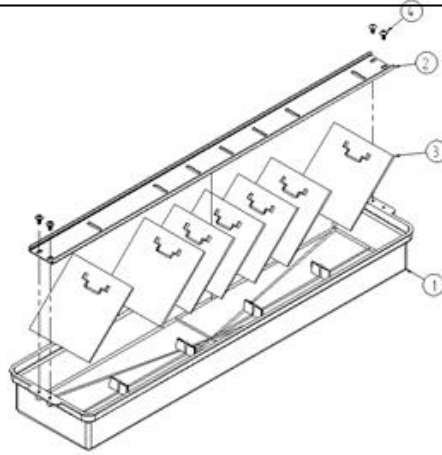
2-5. TOP FRAME ASSY (BSR/BSF72)



NO.	CODE-No	Title	Subject	Q'TY
1	R359A-450	PLATE TOP GRILL UPPER	STS430 T=0.6*2057*158.9	1
2	R359A-440	PLATE TOP GRILL LOW	STS430 T=0.6*2057*194.9	1
3	R359A-430	PLATE TOP GRILL SIDE	STS430 T=0.6	2
4	R337A-010	FRAME TOP MID PIECE 72	ABS BLK L=1950	1
5	R7113-210	DISPLAY PCB (°F)	88 SEGMENT. °F	1
6	R4142-122	CONTROL BOARD	ABS. BLK. T2*242*72	1
7	R7203-020	DOOR SWITCH	WHT. SP201R-9D	3
8	R3734-030	DOOR LOCKING ASSY	ZDC. ZCR	3
9	R7204-070	POWER SWITCH	SL112A. 125V 15A	1
10	R514A-031	MASCOT	T3.8*90*64	1

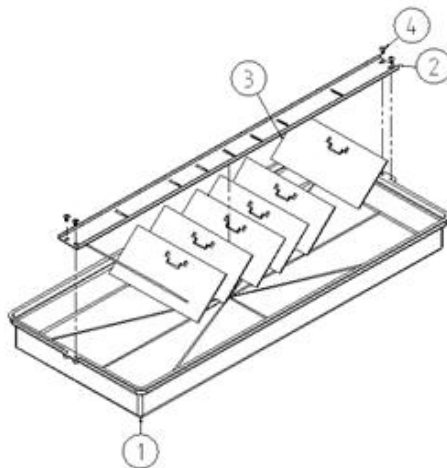
2. PARTS

2-6. EVAPORATOR DRAIN WATER-S ASSY



MODEL : BSR23, BSF23

NO.	CODE-No	Title	Subject	Q'TY
1	R3743-060	TRAY-DRAIN WATER S	ABS, BLK	1
2	R3853-230	EVAPORATOR WICKING GUIDE	P.P. WHT. T2.0*569*40	1
3	R1154-010	DRAIN WICKING P/K	P.P. T2.5*99*103	7
4	C3009-100	SCREW THT2 4*6Y	THT2 46Y	4

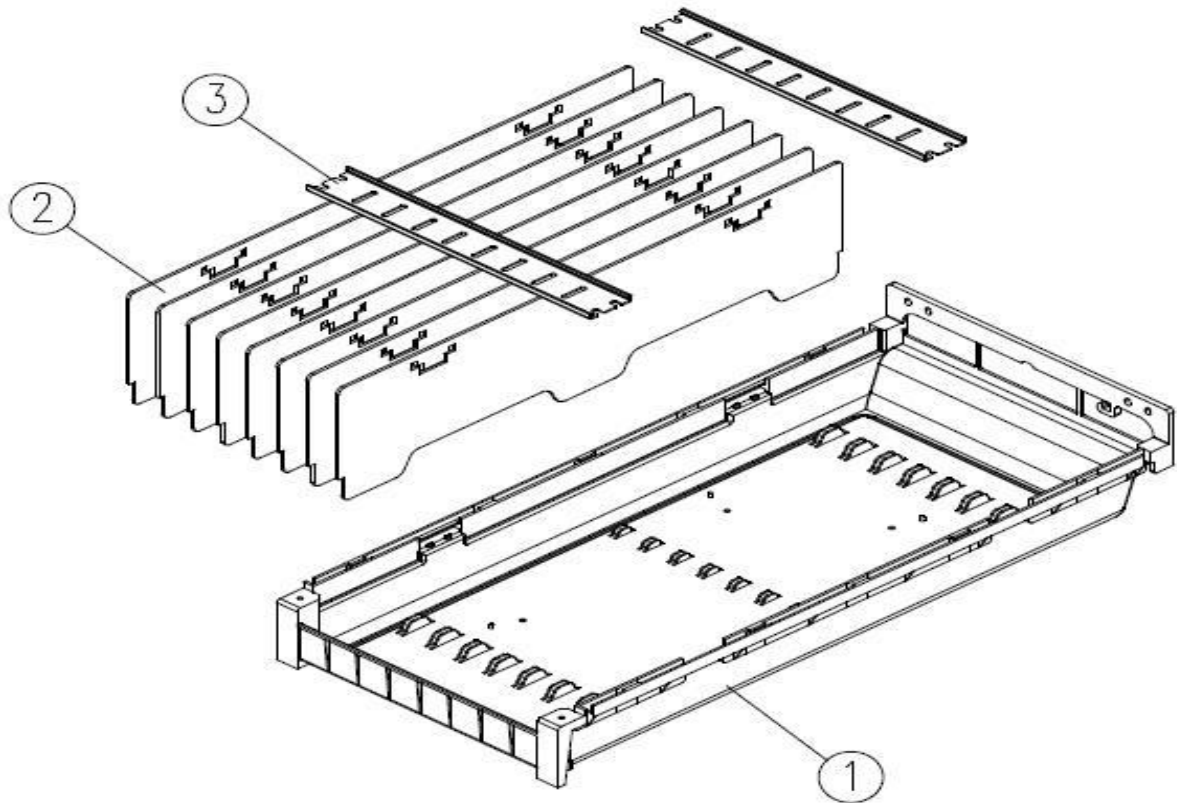


MODEL : BSR49, BSF49

NO.	CODE-No	Title	Subject	Q'TY
1	R3743-070	TRAY-DRAIN WATER L	ABS, BLK	1
2	R3853-240	EVAPORATOR WICKING GUIDE	P.P. WHT. T2.0*657*40	1
3	R1154-020	PAPER-KIT	P.P. T2.5*180*83	7
4	C3009-100	SCREW THT2 4*6Y	THT2 46Y	4

2. PARTS

2-6. EVAPORATOR DRAIN WATER-S ASSY (BSR72, BSF72)

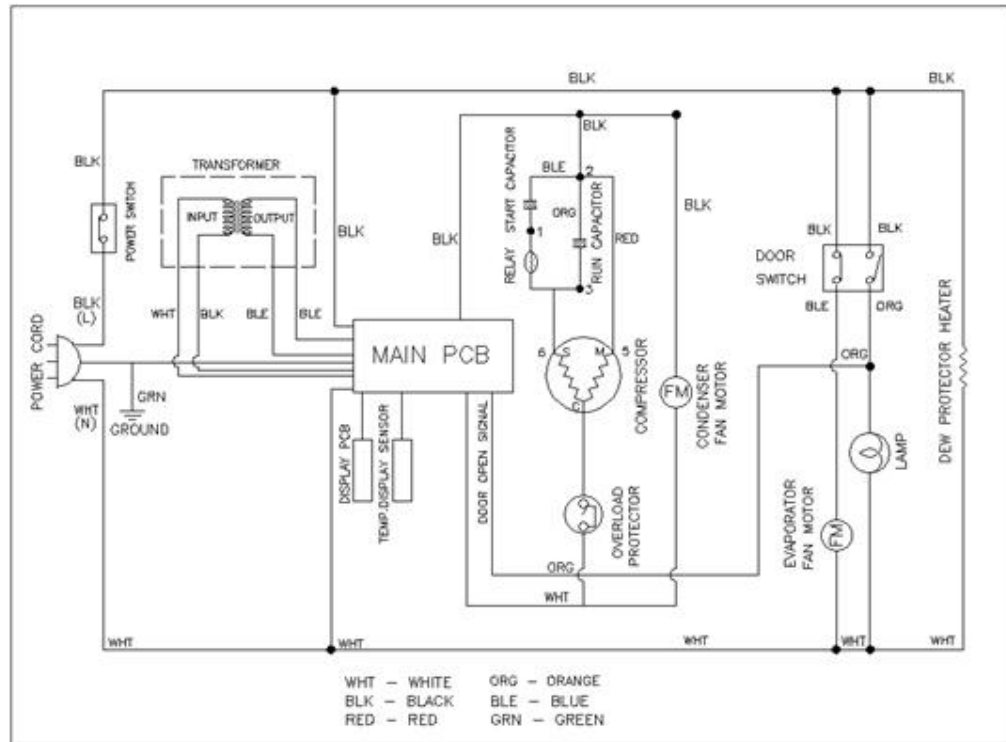


NO.	CODE-No	Title	Subject	Q'TY
1	R3422-012	CASE VAPORI T49	ABS. 602.5*275*106.5	1
2	R110A-010	CLOTH WICKING DRAIN WATER	T=2.5*480*120	8
3	R3853-780	GUIDE WICKING	PP(WHITE). 1.5T*269*40	2

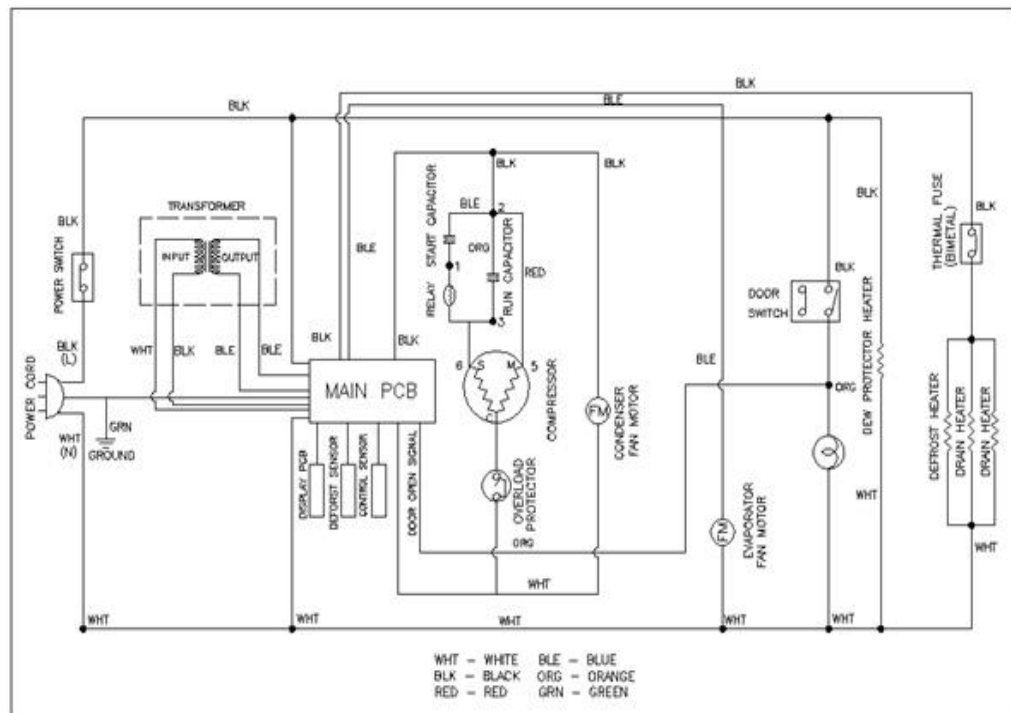
3. WIRING DIAGRAM

3-1. 23Model

◇ BSR23



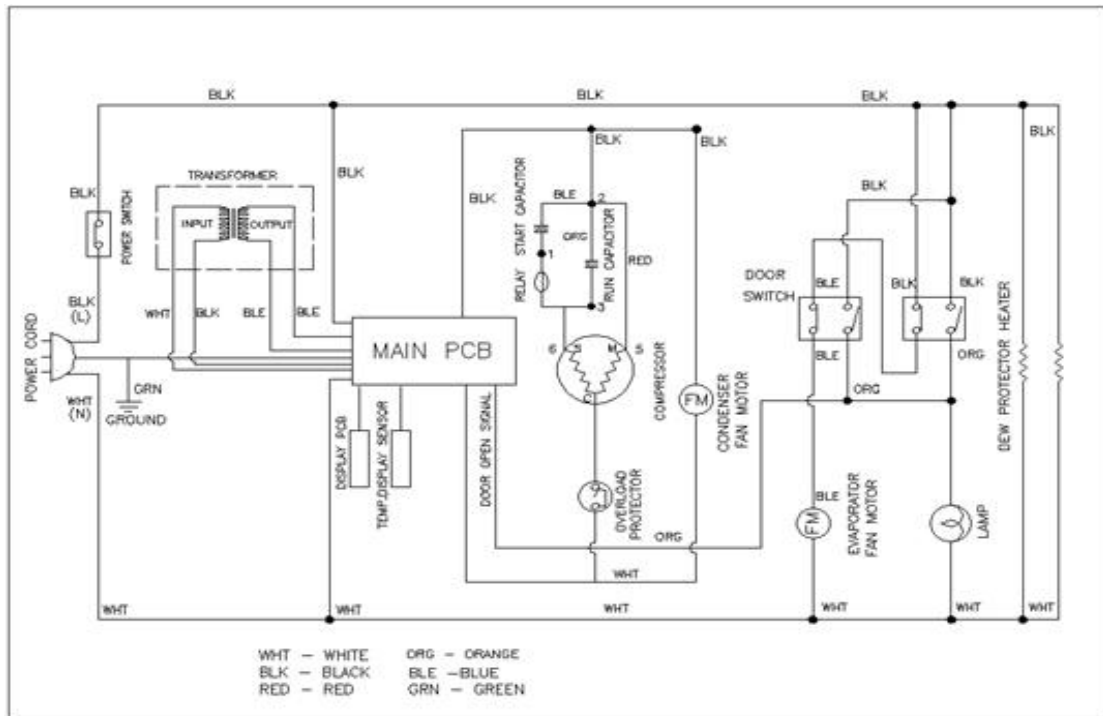
◇ BSF23



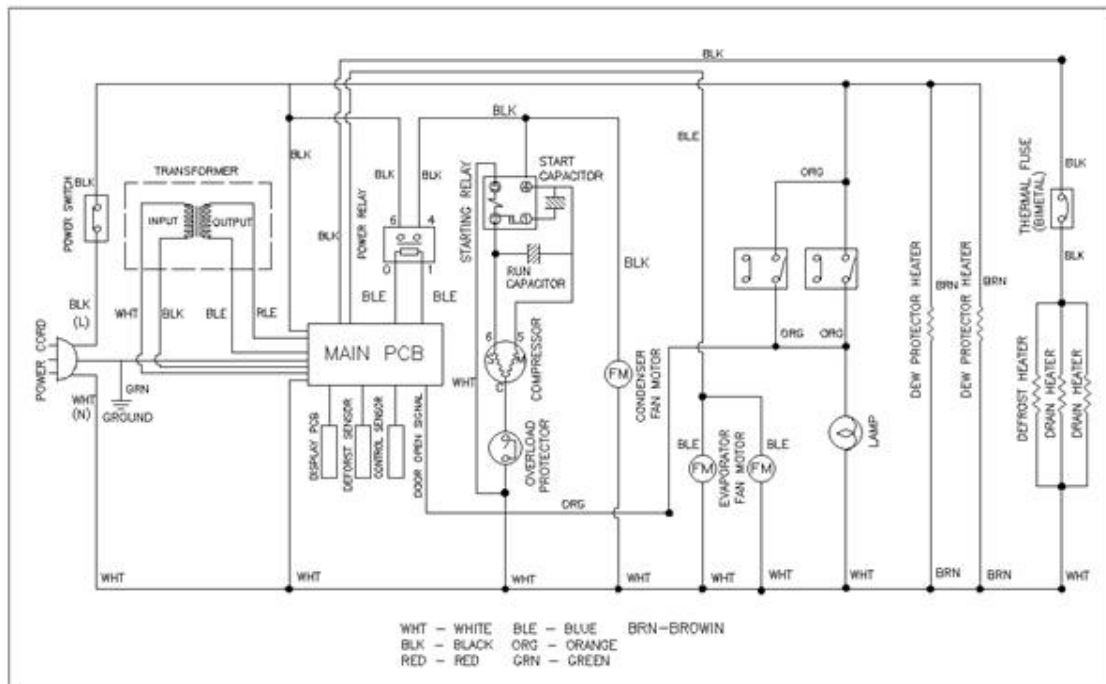
3. WIRING DIAGRAM

3-2. 49Model

◇ BSR49



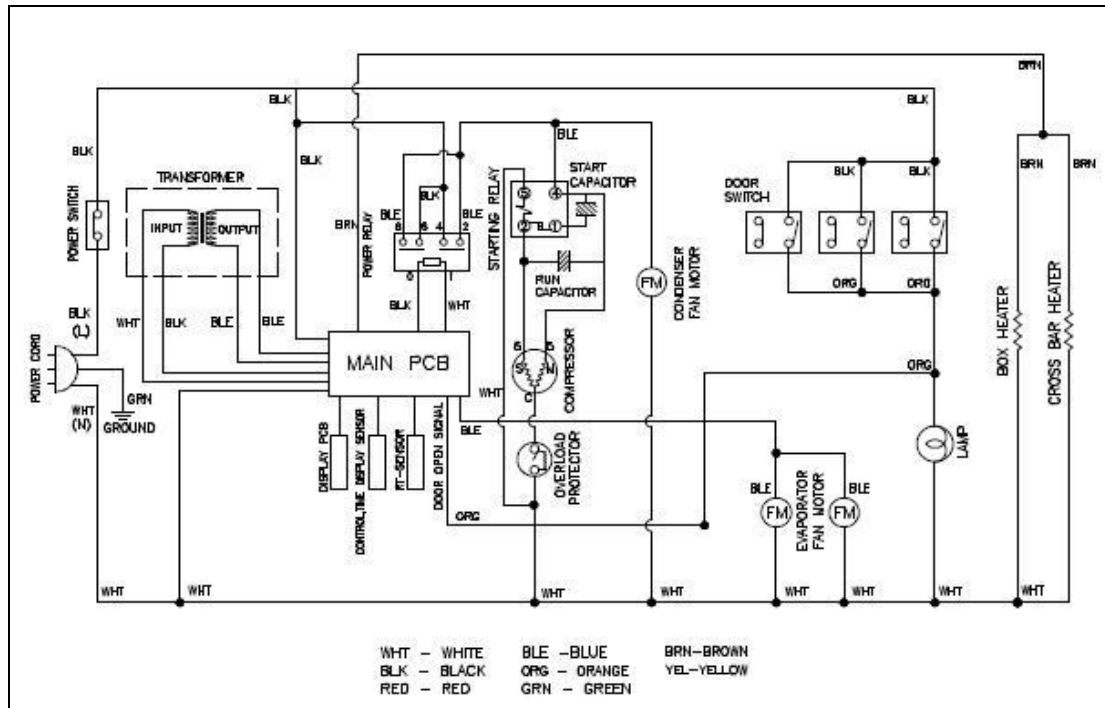
◇ BSF49



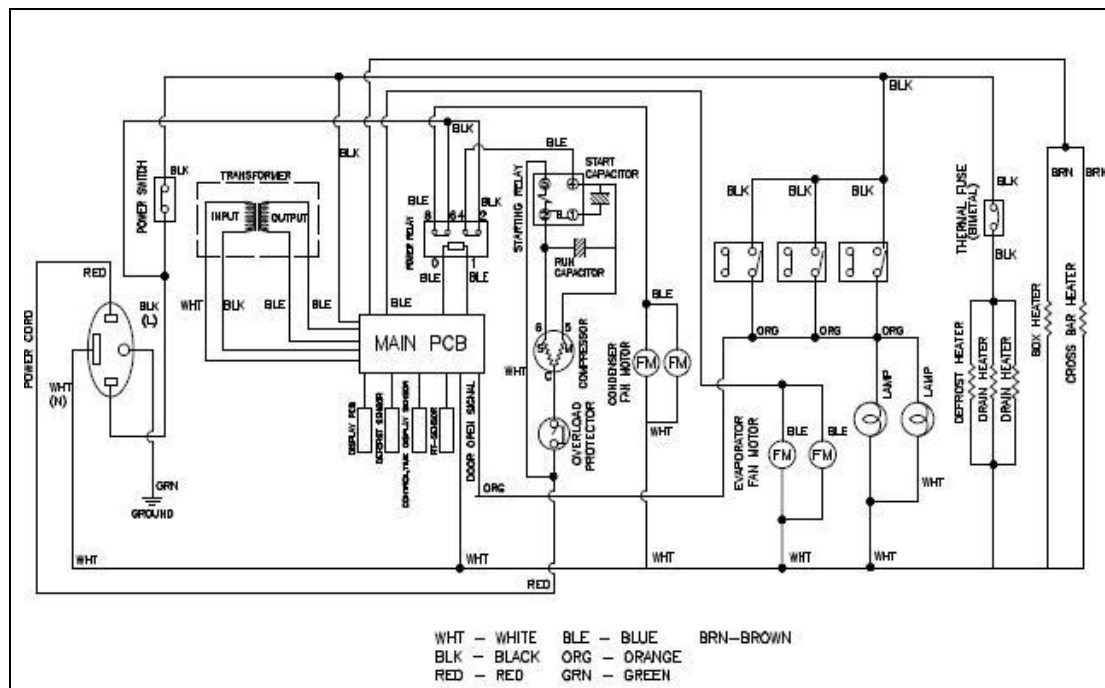
3. WIRING DIAGRAM

3-2. 72Model

◇ BSR72

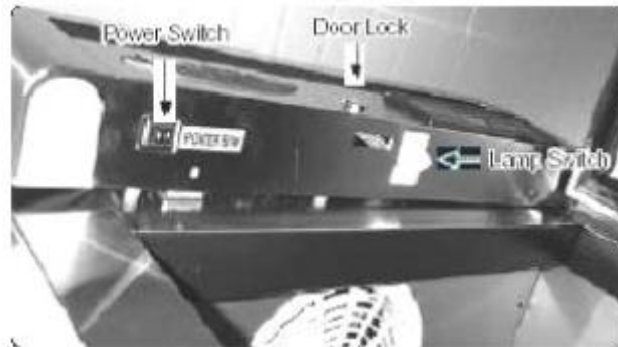


◇ BSF72



4. PART DETAILS

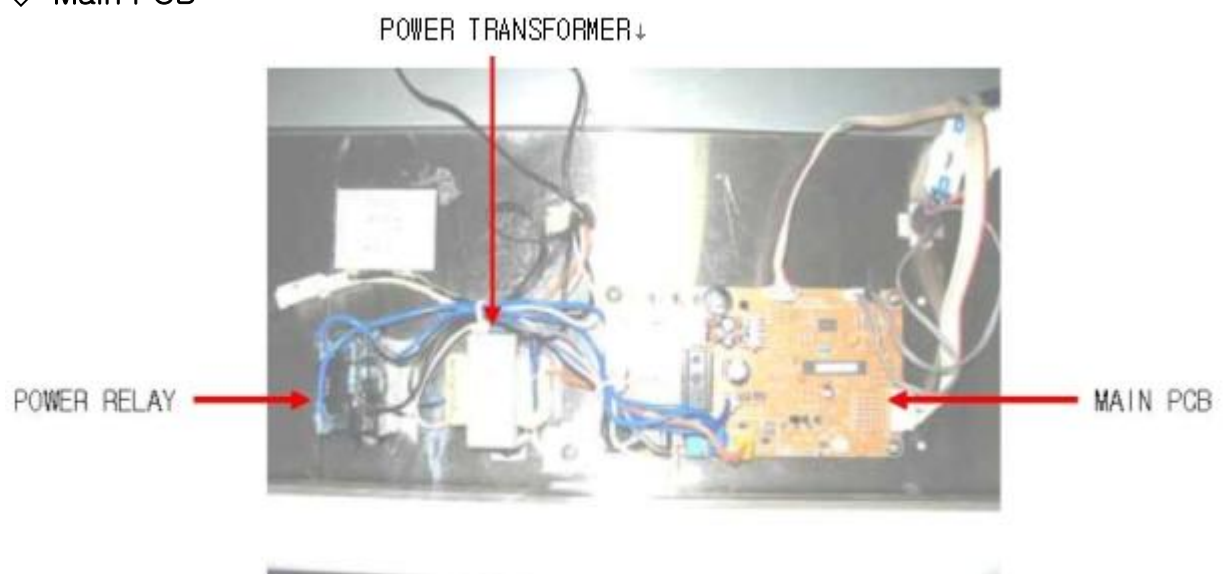
4-1. TOP PANEL



◇ Display PCB



◇ Main PCB



4. PART DETAILS

4-2. COMPRESSOR COMPARTMENT

◇ Condensing Unit



BSR49



BSF49

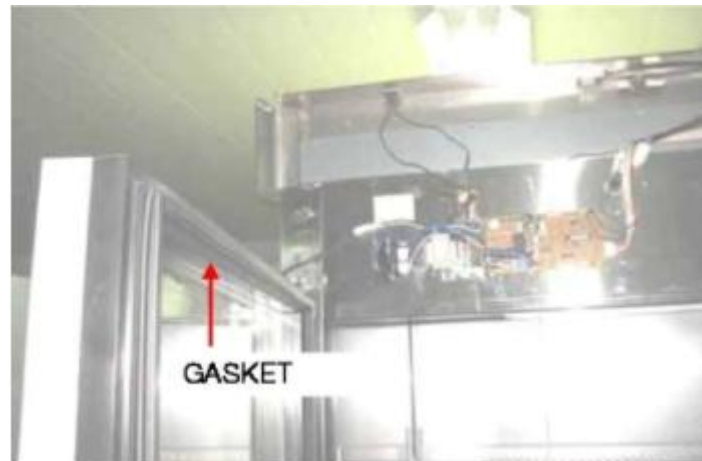


BSR23, BSF23

4. PART DETAILS

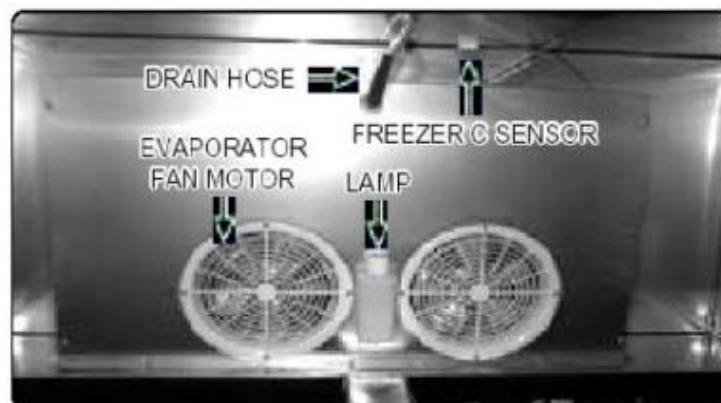
4-3. DOOR

◇ Door Gasket

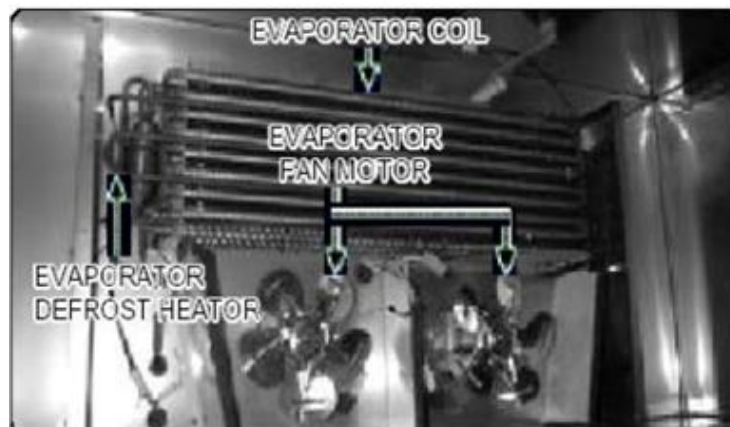


4-4. COOLING COMPARTMENT

◇ Evaporator Housing (Duct) (BSF49)



◇ Refrigerator Evaporator (BSF49)



4. PART DETAILS

◇ Condensate Drain Pan



◇ Condenser Fan Motor Assembly

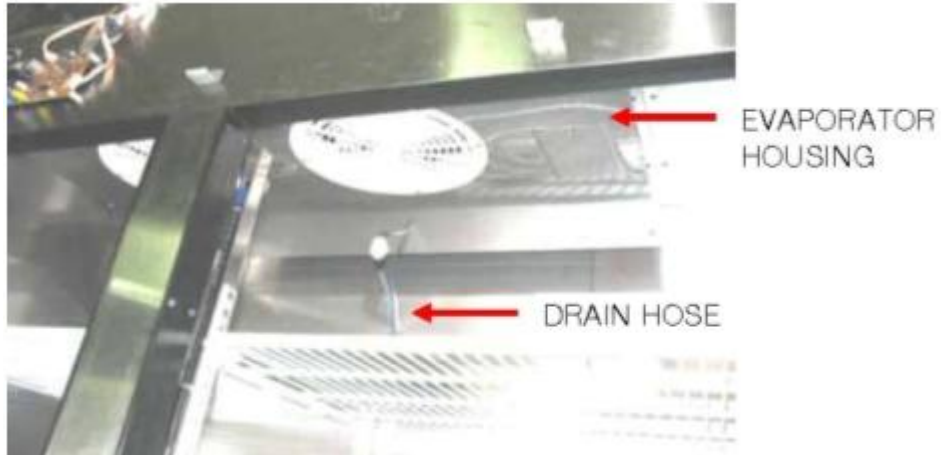


◇ Compressor Capacitor (Running & Starting Capacitor)



4. PART DETAILS

- ◇ Evaporator Housing (Duct) (BSR23, BSF23)



- ◇ Coil Evaporator (BSF23)



- ◇ Evaporator Defrost Heater (BSF23, BSF49)



5. MAIN COMPONENTS

5-1.COMPRESSOR

MODEL		BSR23	BSF23	BSR49	S49F
Refrigerant		R-134a	R-134a	R-134a	R-404a
Voltage		115V	115V	115V	115V
Comp. Model		SK1A1C-L2W	SK1A1C-L2W	SK1A1C-L2W	SC18CLX2
Part code	(DY)	R7439-110	R7439-110	R7439-110	R7439-600
Image					

5-2.POWER-RELAY(COMP. RELAY)

MODEL		BSR23, BSF23	S49R	S49F
Voltage		-		115V/60Hz
Relay Model		-		G7L-2A-TUB
Part code	(DY)	-		R7253-040
Image				

5-3. STARTING CAPACITOR

MODEL		BSR23	BSF23	BSR49	BSF49
Spec		160VAC 145 μ F	160VAC 145 μ F	160VAC 145 μ F	125~165VAC 410 μ F
Part code	(DY)	R7549-270	R7549-270	R7549-270	R7549-280
Image					Assy 117U5043

5-4. RUNNING CAPACITOR

MODEL		BSR23	BSF23	BSR49	BSF49
Spec		350VAC 15 μ F	350VAC 15 μ F	350VAC 15 μ F	280VAC 23.5 μ F
Part code	(DY)	R3153-341	R3153-341	R3153-341	R7549-290
Image					Assy 117-7114

5-5.CONDENSER DRYER

MODEL		BSR23	BSR49	BSF23	BSF49
Refrigerant		R-134a			R-404a
Spec		36GR			24G
Part code	(DY)	R2183-032			R2183-200
Image					

5-6.CONDENSER COIL

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		4.76*13190			CU.OD9.52
Part code	(DY)	R2202-031			R2272-013
Image					

5-7. CONDENSER FAN BLADE

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		AL. ϕ 225. 9" CCW			
Part code	(DY)	R3723-070			
Image					

5-8. CONDENSER FAN MOTOR

MODEL		BSR23	BSR49	BSF23	BSF49
Voltage		115V/60Hz			
Motor Model		DAI-8204DYCA			
Part code	(DY)	R7423-311			
Image					

5-9. CONDENSER FAN MOTOR BRACKET

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		SBHGI. T2.0*164			
Part code	(DY)	R3313-260			
Image					

5-10.EVAPORATOR FAN MOTOR

DAI-8204DYCA-1 MOTOR					
MODEL		BSR23	BSR49	BSF23	BSF49
Voltage		115V/60Hz			
Motor Model		DAI-8204DYCA-1			
Part code	(DY)	R7423-301			
Image					

5-11.EVAPORATOR COIL

MODEL		BSR23	BSR49	BSF23G	BSF49
Spec		CU+AL	CU+AL	CU+AL	CU+AL
Part code	(DY)	R8613-354	R8613-343	R2263-038	R2263-047
Image					

5-12. EVAPORATOR DEFROST HEATER

MODEL		BSR23	BSR49	BSF23	BSF49
Voltage		115V/60Hz			
Spec		-		445W	600W
Part code	(DY)	-		R7303-402	R7303-412
Image					

5-13. FAN BLADE

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		8". C.C.W			
Part code	(DY)	R3729-010			
Image					

5-14. EVAPORATOR FAN GUARD

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		HIPS (VH-1800EX)			
Part code	(DY)	R3812-141			
Image					

5-15. EVAPORATOR FAN MOTOR BRACKET

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		STS-304. T1.0*120*90			
Part code	(DY)	R3204-360			
Image					

5-16. MAIN PCB

MODEL		BSR23, BSR49		BSF23, BSF49	
Voltage		115V/60Hz			
Part code	(DY)	R725A-130		R725A-130	
Image					

5-17. DISPLAY PCB

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		88 SEGMENT. °F			
Part code	(DY)	R7113-210			
Image					

5-18. INLAY CONTROL

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		PC-SHEET			
Part code	(DY)	R511A-030			
Image					

5-19. HARNESS RELAY

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		UL AWG 18			
Part cod e	(DY)	R7523 -053	R7483 -033	R7483 -023	R7483 -014
Image					

5-20. POWER CORD

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		BLK, SJT. L=3000mm.115V 15A			
Part code	(DY)	R729A-030			
Image					

5-21. EVAPORATOR THERMAL FUSE (BIMETAL)

MODEL	BSR23	BSR49	BSF23	BSF49
Spec	-	-		
Part code	(DY)	-	R7253-052	R7253-052
Image				

5-22. TEMP-THERMISTOR, FRE

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		-	-	YELLOW	
Part code	(DY)	-	-	R7213-082	
Image					

5-23. DEFROST SENSOR (D-SENSOR)

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		-	-	BLACK. L=180mm	
Part code	(DY)	-	-	R7213-210	
Image					

5-24. TEMP-DISPLAY SENSOR, REF

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		WHITE	WHITE		
Part code	(DY)	R7213-112	R7213-112		
Image					

5-25. HARNESS SWITCH

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		UL AWG 18			
Part code	(DY)	R7403-091	R7403-080	R7483-140	R7483-130
Image					

5-26. EVAPORATOR DRAIN WATER-ASSY

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		23	49	23	49
Part code	(DY)	R8119-080	R8199-070	R8119-080	R8199-070
Image					

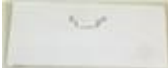
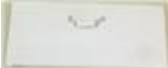
5-27. DRAIN PAN

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		ABS. BLK	ABS. BLK	ABS. BLK	ABS. BLK
Part code	(DY)	R3743-060	R3742-070	R3743-060	R3742-070
Image					

5-28. DRAIN WICKING BAR

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		PP.WHT T2.0*40*569	PP.WHT T2.0*40*657	PP.WHT T2.0*40*569	PP.WHT T2.0*40*657
Part code	(DY)	R3853-230	R3853-240	R3853-230	R3853-240
Image					

5-29. DRAIN WICKING KIT

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		PP. T2.5*99*103	PP. T2.5*93*180	PP. T2.5*99*103	PP. T2.5*93*180
Part code	(DY)	R1154-010	R1154-020	R1154-010	R1154-020
Image					

5-30. HEATER DRAIN PAN

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		-	-	115V 90W	115V 140W
Part code	(DY)	-	-	R7303-174	R7303-184
Image					

5-31. SENSOR BRACKET

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		PP. WHT			
Part code	(DY)	R3314-192			
Image					

5-32. CASTER

MODEL		BSR23	BSR49	BSF23	BSF49F
Spec		SPCC 4"			
Part code	(DY)	R3323-240, R3323-230			
Image					

5-33. DOOR SWITCH

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		WHITE. SP201R-9D			
Part code	(DY)	R7203-020			
Image					

5-34. DOOR LOCK

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		ZDC. ZCR			
Part code	(DY)	R3739-010			
Image					

5-35. POWER SWITCH

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		SL112A. 125V 15A			
Part code	(DY)	R7204-070			
Image					

5-36. ASSY SHELF CLIP

MODEL	BSR23	BSR49	BSF23	BSF49
Spec	16 SET	32 SET	16 SET	32 SET
Part code	(DY)	R8429-060	R8429-080	R8429-080
Image				

5-37. SHELF STANDARD. L

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		T1.2*930			
Part code	(DY)	R3373-630			
Image					

5-38. DOOR GASKET

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		RD-PVC.BLK			
Part code	(DY)	R338A-040			
Image					

5-39. STOPPER HINGE/STOPPER DOOR

MODEL		BSR23, BSR49, BSF23, BSF49			
Spec		POM(FW700S) 45.5*31*8		POM(FW700S)	
Part code	(DY)	R375A-010 RH	R375A-020 LF	R375A-030 RH	R375A-040 LF
Image					

5-40. ASSY HINGE TOP

MODEL		BSR23, BSR49, BSF23, BSF49	
Spec		STS304 T=4.0	
Part code	(DY)	R828A-062 RH	R828A-052 LF
Image			

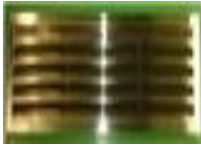
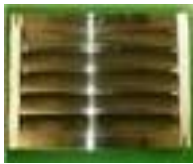
5-41. ASSY HINGE BOTTOM

MODEL		BSR23, BSR49, BSF23, BSF49	
Spec		STS304 T=4.0	
Part code	(DY)	R828A-020 RH	R828A-030 LF
Image			
			

5-42. PIN TENSION

MODEL		BSR23, BSR49, BSF23, BSF49	
Spec		SUM24L(괘삭강)+아연도금 ϕ 5*22	
Part code	(DY)	R412A-020	
Image			

5-43. BOTTOM GRILL

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		STAINLESS	STAINLESS	STAINLESS	STAINLESS
Part code	(DY)	R818A-310	R818A-300	R818A-310	R818A-300
Image					

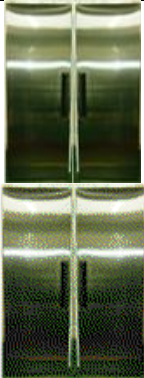
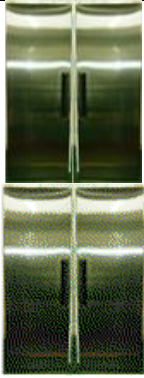
5-44. SHAFT TOP HINGE AS/SPRING DOOR

MODEL		BSR/F23, BSR/F49	BSR/F23, BSR/F49	BSR/F23, BSR/F49
Spec		SUM24L ϕ 15*114	SW-C ϕ 2.3 WHITE	SW-C ϕ 2.3
Part code	(DY)	R858A-410	R374A-020 RH	R374A-010 LF
Image			 	 

5-45. ASSY CROSS BAR

MODEL		BSR23	BSF23	BSR49	BSF49
Spec		-	-	115V, 30W	115V, 38
Part code	(DY)	-	-	R816A-280	R816A-290
Image		-	-		

5-46. DOOR ASSY

MODEL		BSR23	BSR49	BSF23	BSF49
Spec		BR1, BF1	RH, LF	BR1, BF1	RH, LF
Part code	(DY)	R817A-340	R817A-340 R817A-330	R817A-340	R817A-340 R817A-330
Image					

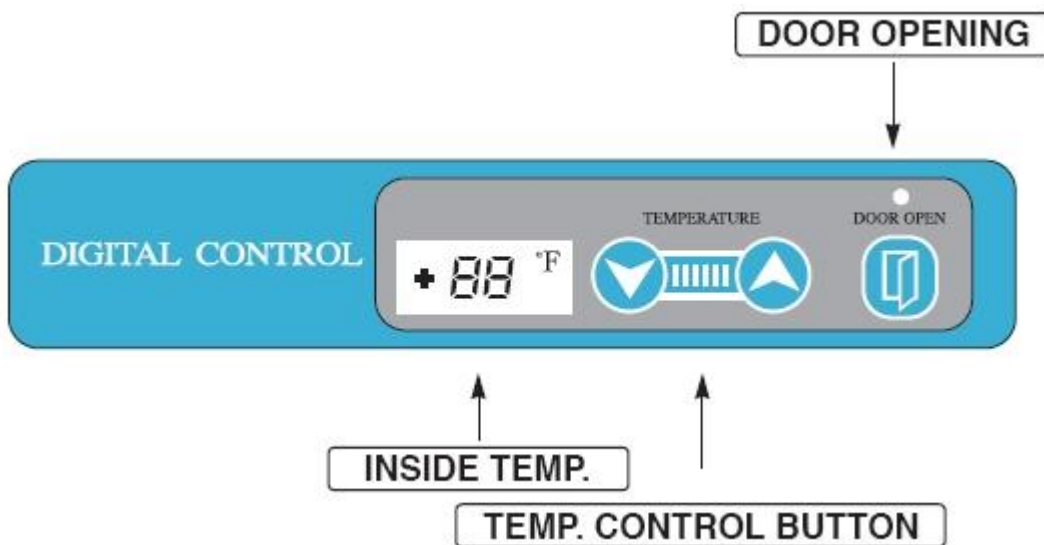
5-47. BODY DOOR SPRING

MODEL		BSR23	BSR49	BSF23	BSF49
SPEC		ZNDC 97*70*26			
Part Code	(DY)	R313A-011			
Image					

6. ELECTRONIC CONTROL INSTRUCTIONS

6-1. FREEZER CONTROL

6-1-1. HOW TO USE THE DISPLAY PCB PANEL



1. UP / DOWN BUTTON (Temperature control button)

- By pushing the up/down button, you can set the inside temperature.

2. DEFROST

- The electronic defrost controller is set at the factory to provide a defrost cycle every 6 hours.
- Once all frost is eliminated, the defrost control is changed to the freezer mode.
- The panel displays " dF " during the defrost.

3. DOOR OPENING INDICATOR

- If door is opened, door opening indicator will be turned on.
- If the door is left open for 5 minutes an alarm will sound continuously.
- The alarm will stop immediately upon closing of the door.

6. ELECTRONIC CONTROL INSTRUCTIONS

6-1-2. FUNCTION TABLE & MANUAL DEFROST

NO	Function	Controlled Part	Description
1	Initial Operation		1. LED displays inside temperature. 2. Begins to run immediately if higher than 50°F and begins to run after 5 minutes pause if lower than 50°F.
2	Temperature Control	Compressor LED	1. The Temperature can be changed by pushing up/down buttons. 2. LED displays inside temperature 3. Buzzer buzzes 1 time whenever a button is pressed 4. Compressor automatically turns on and off by C-sensor (Except error mode) 5. Comp. On/off temperature at C-sensor (°F) Setting 5.03.01.0-1.0-2.0 Comp On 86321 Comp Off 20-3-4-5 Setting -3.0-5.0-7.0-9.0 Comp On 0-2-4-6 Comp Off -6-7-9-10.5
3	Defrost Function	Heater Compressor	1) Defrost function is controlled time interval setting. 2) Factory setting is every 8 hours. 3) If it becomes defrost cycle time, Defrost heater is operated when D-sensor senses below 23°F. 4) Defrost heater terminates when D-sensor temperature comes to above 53°F, then compressor will start after 10 minutes. 5) During defrost period, LED displays dF. 6) If D-sensor does not cut off defrost heater, main pcb has a back up for defrost time, the maximum is 40 minutes. 7) Defrost can be set by pushing the button for 3 seconds. (3h, 6h, 9h, 10h(ah)) 
4	Error Display	LED	1) Press 'up' button 3 times while pressing and holding 'down' button. Above procedure switches normal display to error display mode. And then 88 LED indicates, '(D1)' or '(F3)' or '(C1)' respectively. 2) 10 seconds after the last button pressed, error display mode will be switched to normal display mode.

NO	Function	Relative Model	Description
1	Forced "Df" (To Force the Defrost)	Freezer	1. Press both "UP" & "DN" keys simultaneously more than 3 seconds. 2. "Df" will show up in the display. 3. Comp will stop. 4. Heater will turn on (Defrost heater, Drain Fan Heater, and Hose Heater). 5. Room Fan will stop. 
2	To Turn off the Forced Defrost (To release the Defrost)	Freezer , Refrigerator	1. Press both "UP" & "DN" keys simultaneously more than 3 seconds. 2. Temperature will show up in the display with the beep sounds.
3	Forced "Df" (To Force the Defrost)	Refrigerator	1. Press both "UP" & "DN" keys simultaneously more than 3 seconds. 2. "Df" will show up in the display. 3. Comp will stop. 4. Room Fan will start. 
4	To Change the Defrost Interval Time		1. Press both "UP" & "DN" keys simultaneously more than 3 seconds. 2. "Df" will show up in the display. 3. Press the "UP" key more than 3 seconds. 4. The current interval time will show up in the display (Factory default setup will 8 Hr) 5. Press the "UP" key to change the interval to the other (5Hr, 6Hr, 8Hr, 10Hr (aH)). 

6. ELECTRONIC CONTROL INSTRUCTIONS

6-1-3. ERROR CODE TABLE

CODE	Content	Indicates	Refrigeration state
CO	C-sensor	- OPEN	- Normal operation - Time control Comp ON : 6 MINUTES Comp OFF: 11 MINUTES
CS		- SHORT	
(D1) (F3) (C1)	D-sensor	- OPEN	
		- SHORT	

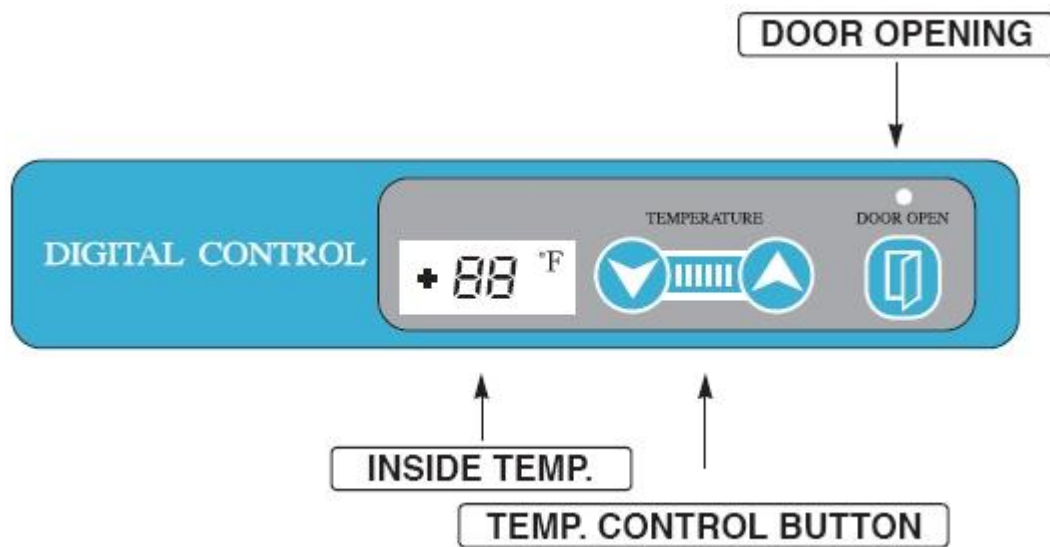
6-1-4. SENSOR DESCRIPTION

Sensor	Model	Role	Wire Color
D-sensor	Freezer	Detect Evap coil's temp. to start and terminate defrosting.	WHT
C-sensor	Freezer	Detect inside air temp. to operate comp and to indicate the inside temp. on the display PCB	YELLOW
T-sensor	Refrigerator	Detect inside air temp. to indicate the inside temp on the display PCB	WHT

6. ELECTRONIC CONTROL INSTRUCTIONS

6-2. REFRIGERATOR CONTROL

6-2-1. HOW TO USE THE DISPLAY PCB PANEL



1. UP / DOWN BUTTON (Temperature control button)

- By pushing the up/down button, you can set the inside temperature.

2. DOOR OPENING INDICATOR

- If door is opened, door opening indicator will be turned on.
- If the door is left open for 5 minutes an alarm will sound continuously.
- The alarm will stop immediately upon closing of the door.

6. ELECTRONIC CONTROL INSTRUCTIONS

6-2-2. FUNCTION TABLE

NO	Function	Controlled Part	Description																																	
1	Initial Operation		1. LED displays inside temperature. 2. Begins to run immediately if higher than 41°F and begin to run after 5 minutes pause if lower than 41°F.																																	
2	Temperature Control	Compressor LED	. The Temperature can be changed by pushing up/down buttons. 2. LED displays inside temperature 3. Buzzer buzzes 1 time whenever a button is pressed 4. Compressor automatically turns on and off by C-sensor (Except error mode) 5. Comp. On/off temperature at C-sensor(°F) <table><tr><td>Setting</td><td>39</td><td>38</td><td>37</td><td>36</td><td>35</td></tr><tr><td>Comp On</td><td>42</td><td>41</td><td>40</td><td>39</td><td>38</td></tr><tr><td>Comp Off</td><td>36</td><td>35</td><td>34</td><td>33</td><td>32</td></tr></table> <table><tr><td>Setting</td><td>34</td><td>32</td><td>30</td><td>28</td></tr><tr><td>Comp On</td><td>37</td><td>35</td><td>34</td><td>32</td></tr><tr><td>Comp Off</td><td>31</td><td>29</td><td>28</td><td>26</td></tr></table>	Setting	39	38	37	36	35	Comp On	42	41	40	39	38	Comp Off	36	35	34	33	32	Setting	34	32	30	28	Comp On	37	35	34	32	Comp Off	31	29	28	26
Setting	39	38	37	36	35																															
Comp On	42	41	40	39	38																															
Comp Off	36	35	34	33	32																															
Setting	34	32	30	28																																
Comp On	37	35	34	32																																
Comp Off	31	29	28	26																																
3	Error Display	LED	1) Press `up` button 3 times while pressing and holding `down` button. Above procedure switches normal display to error display mode. And then 88 LED indicates, `(D1)` or `(C1)` respectively. 2) 10 seconds after the last button pressed, error display mode will be switched to normal display mode.																																	
4	Defrost Function	Compressor	1) Defrost can be set by pushing the button for 3 seconds. (3h, 6h, 9h, 10h(ah)) A digital control panel with a blue background. On the left, it says "DIGITAL CONTROL". In the center, there is a digital display showing "+88 °F". To the right of the display are two circular buttons with up and down arrows, and a rectangular button with a defrost symbol (a square with a diagonal line). Above the buttons, the word "TEMPERATURE" is written, and above the defrost button, "DOOR OPEN" is written. 2) While the compressor runs for over 3 hours, defrost system will automatically be driven without any additional control order.																																	

NO	Description	
4	How to control the Defrost interval	1. Press the Up key for 3 seconds. 2. The Defrost interval currently set will be displayed (Factory default : 8H). 3. Select the other interval by pushing the Up Key. (5H → 6H → 8H → 5H in rotation) 4. Leaving it untouched for 3 seconds will resume the normal operation.
5	Forced Defrost	1. Press Up/Down simultaneously for 3 seconds to activate the Defrost manually. 2. The 'dF' will get displayed and the defrost will start. 3. To change or see the Defrost duration, press Up key. 4. Leaving the Key untouched for 3seconds will resume the letter "dF" 5. To deactivate the Defrost press the Up/Down key simultaneously for 3seconds. Otherwise the defrost will continue for the duration set in 3).
6	How to change the setup of Box Heater Control (Power Duration)	1. Press the Down key for 3 seconds to activate the setup. 2. The initial control value will be displayed (Default value : 1) 3. Change the value by pressing the Down Key (1→2→3→4→1 in rotation) 4. The temperature will be displayed 3seconds after leaving the key untouched. Meaning : 1→ On 10 min. / Off 10 min. 2→ On 15 min. / Off 10 min. 3→ On 20 min. / Off 10 min. 4→ On 25 min. / Off 15 min.

6. ELECTRONIC CONTROL INSTRUCTIONS

6-2-3. ERROR CODE

CODE	Content	Indicates	Refrigeration state
tO	T-sensor	- OPEN	- Normal operation - Time control Comp ON : 18 MINUTES Comp OFF : 6 MINUTES
ts		- SHORT	
(D1)	C-sensor	- OPEN	
(C1)		- SHORT	

7. REPLACEMENT OF MAIN COMPONENTS

7-1. TOP PANEL PARTS

- MAIN PCB
- LOCK ASSEMBLY or POWER SWITCH
- DOOR SWITCH

A. Remove the screws located on top grill panel.



■ CAUTION

- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

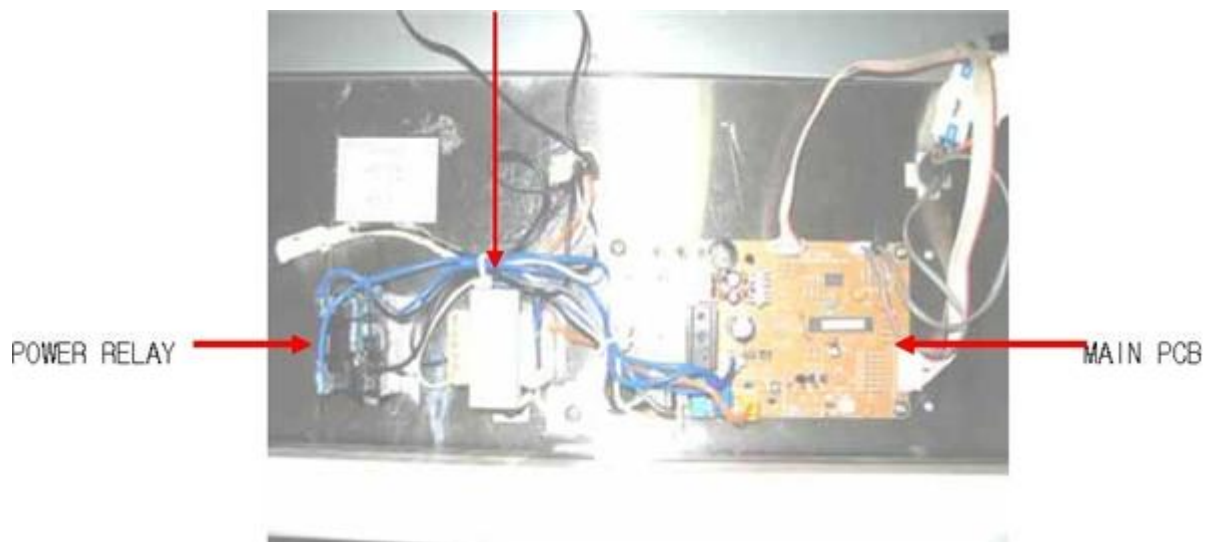
B. Remove the screws located on bottom of top panel.

caution : When unscrewing, hold the top panel.



POWER TRANSFORMER

C. Place the top panel on top of the cabinet.



■ CAUTION

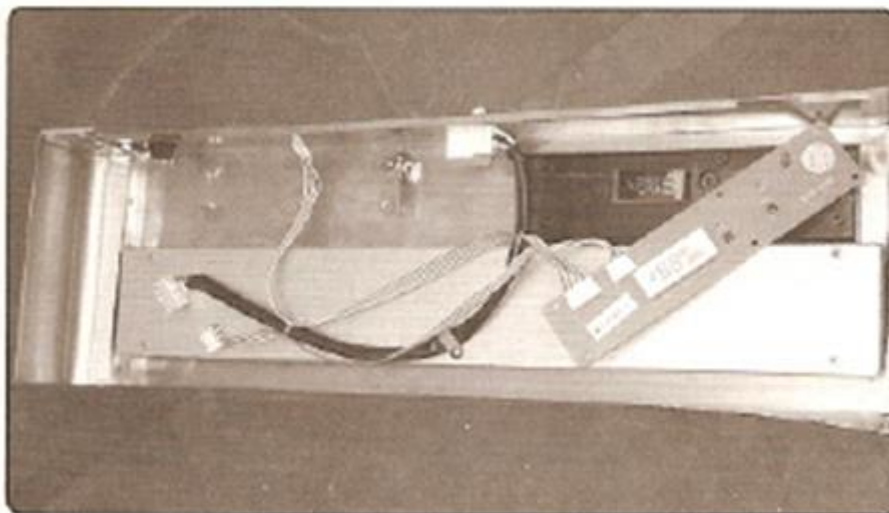
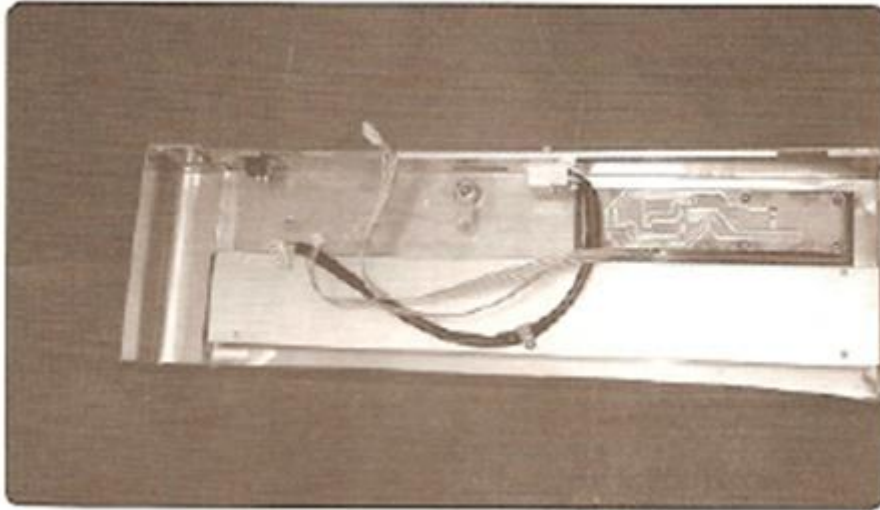
- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

E. Pull out the harness located on back of top panel.

You can separate top panel out of the unit.

You can replace power switch, lamp switch and display PCB.



■ CAUTION

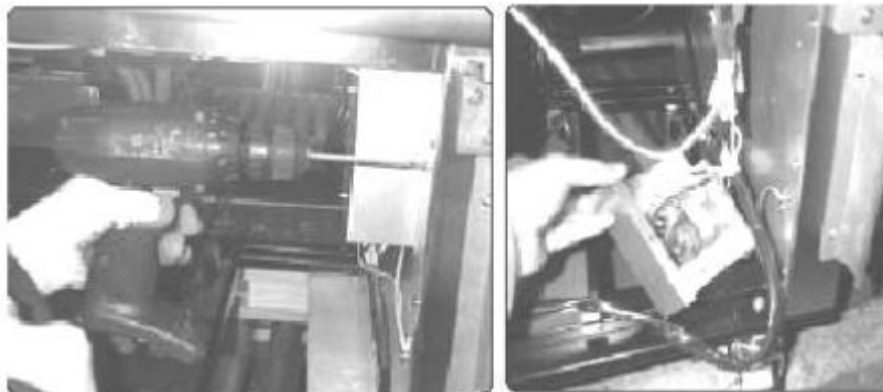
- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

7-2. REPLACING DOOR

- A. Disassemble top panel as described section 6-1 A,B
- B. Remove bottom grill by unscrewing the four screws located on each side of bottom grill.

- C. Open the capacitor cover.



※ Reference

- If a door for left hand is necessary, please contact the sales representative in your area.
- A set of door & Door hinge can be purchased separately to convertible between Right Hand and Left Hand side.

■ CAUTION

- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

D. Remove the hinge.



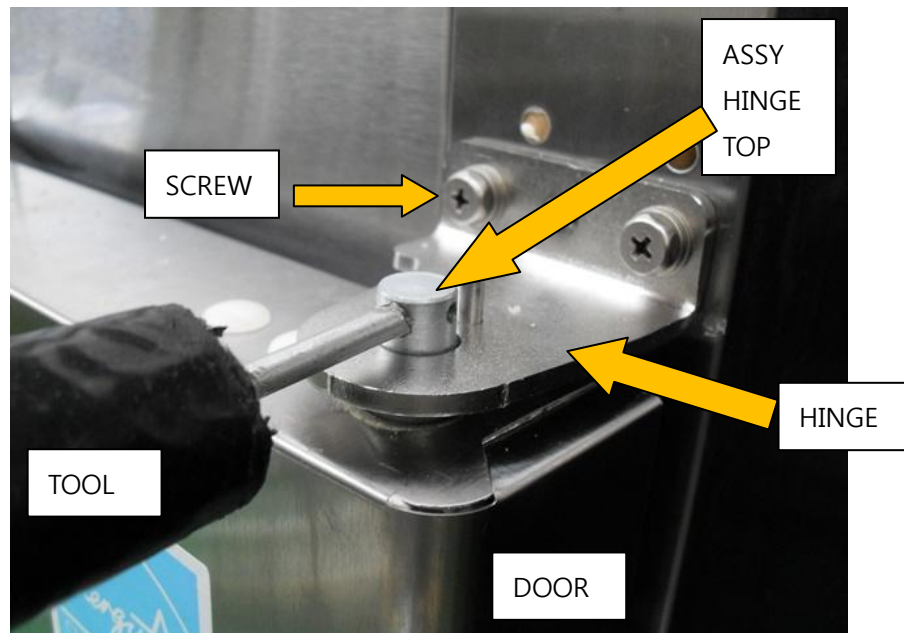
■ CAUTION

- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

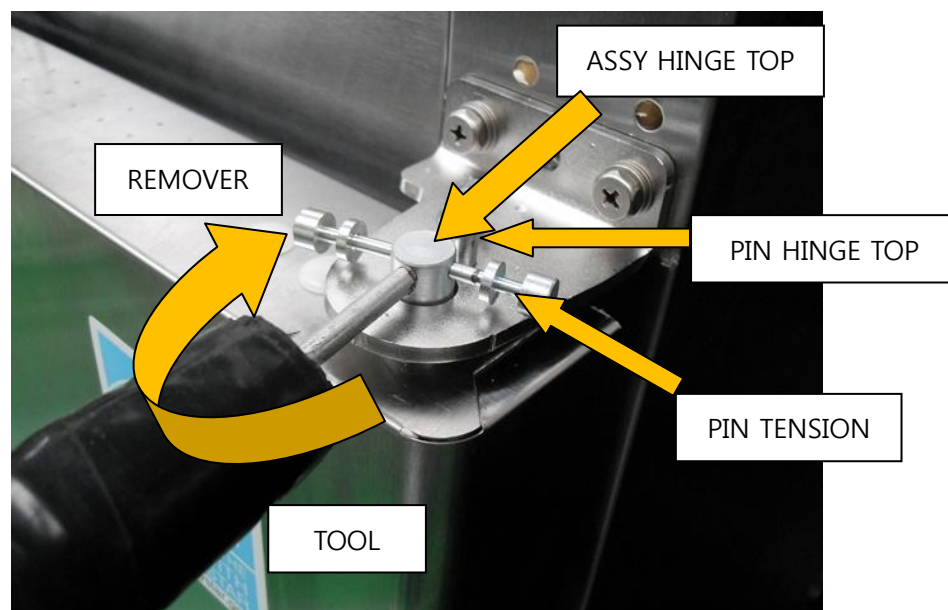
7-3. DOOR SPRING ADJUSTMENT

A. Detailed structure of DOOR HINGE



B. Coordinated principle of DOOR TENSION

After Putting Tool for revolving DOOR-HINGE STOP-PIN HOLE, Insert Door Hinge STOP-PIN into the hole after revolving up to the requested TENSION.

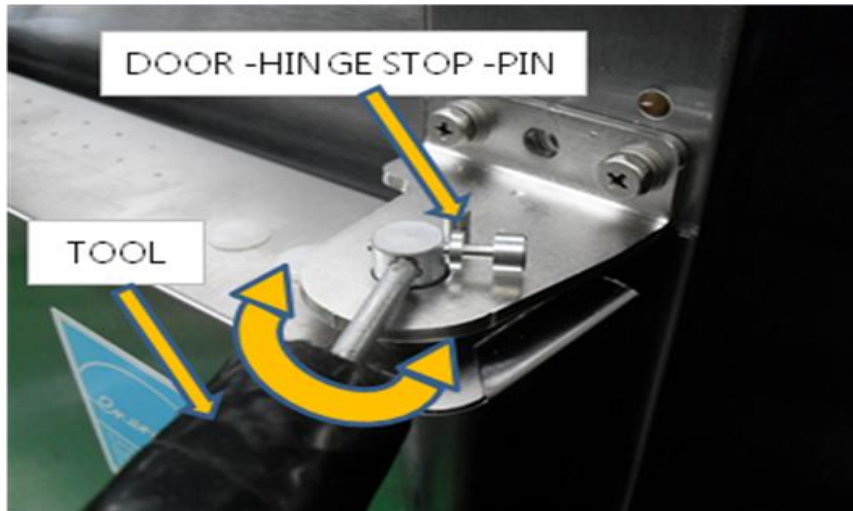


■ CAUTION

- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

C. Remove the door hinge stop pin.



D. Place the door hinge stop pin and adjust the strength of the door spring.



■ CAUTION

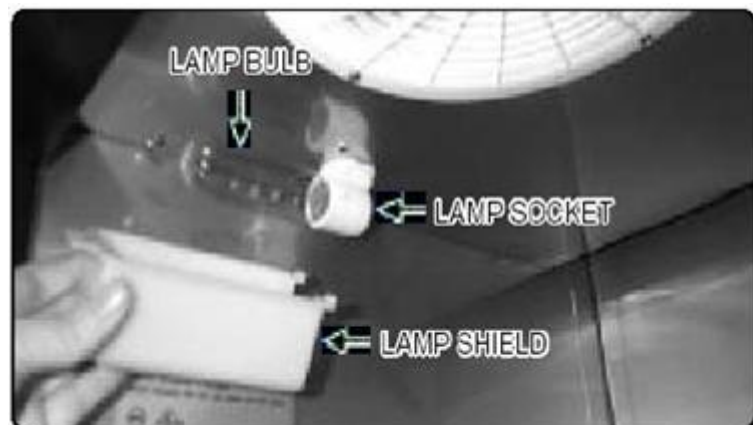
- DISCONNECT FROM POWER SOURCE BEFORE SERVICING

7. REPLACEMENT OF MAIN COMPONENTS

7-4. REFRIGERATION COMPARTMENT'S PARTS

- LAMP BULB, LAMP SHIELD
- EVAPORATOR FAN MOTOR
- EVAPORATOR DEFROST HEATER
- EVAPORATOR COIL
- D-SENSOR, C-SENSOR, T-SENSOR
- ? DRAIN HOSE HEATER

A. Disassemble lamp shield



B. Disassemble Evaporator Panel



7. REPLACEMENT OF MAIN COMPONENTS

C. Pull out the lamp



D. Replacing evaporator fan motor.

A-1. Disconnect the fan motor's harness.

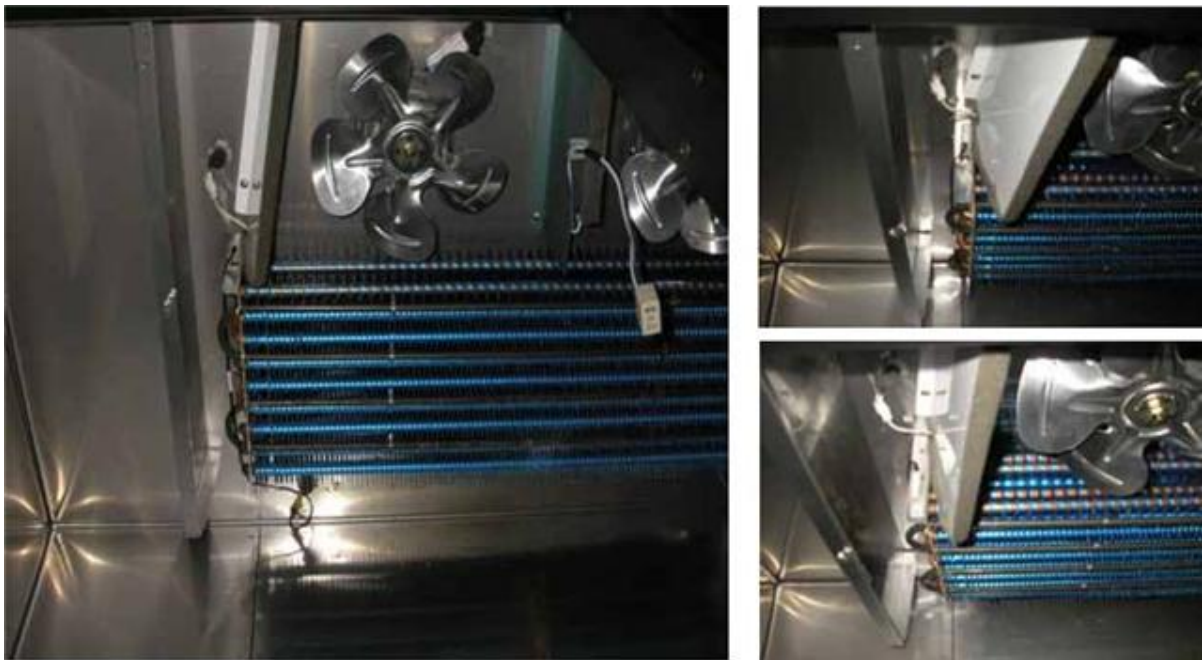
A-2. Remove the four screws that are located on bottom of fan motor.



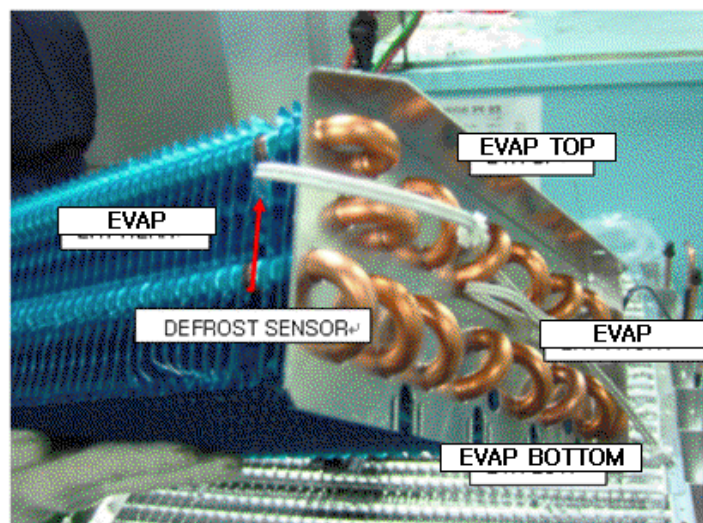
7. REPLACEMENT OF MAIN COMPONENTS

E. Replacing sensor

E-1. FREEZER C-sensor : Remove as illustrated below and pull-out the FREEZER C-sensor from the cover.



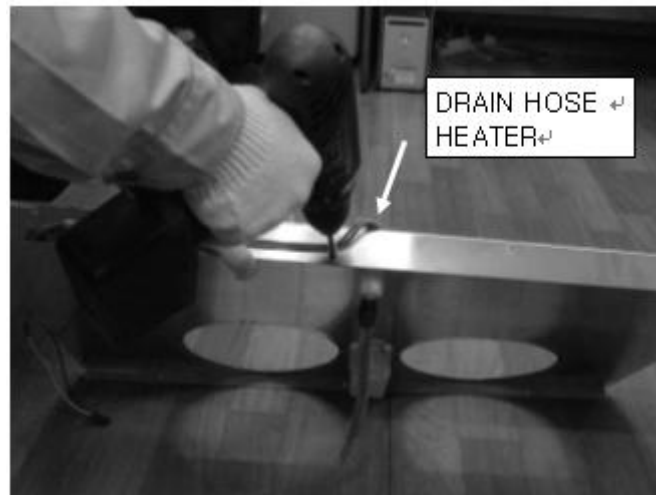
E-2. FREEZER D-sensor



7. REPLACEMENT OF MAIN COMPONENTS

F. Drain hose heater

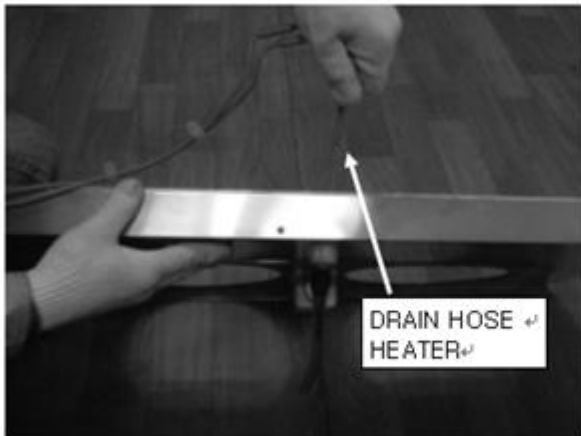
F-1. After separating Evaporator cover from the freezer, set aside the screws.



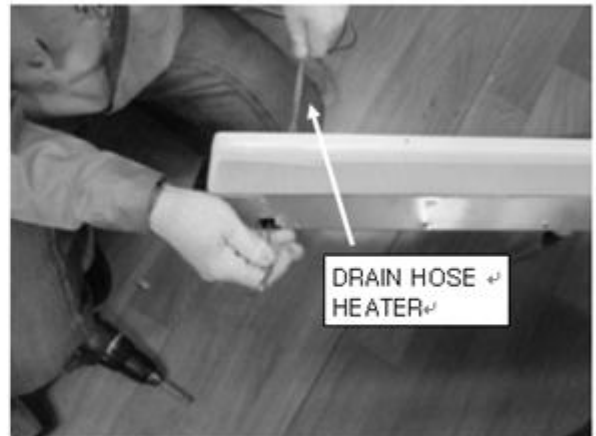
F-2. Pull out the heater for drain hose from the Evaporator.

Cover and eliminate it with care in the direction of front side.

F-3. Install the new heater for drain hose in reverse order.



F-2



F-3

7. REPLACEMENT OF MAIN COMPONENTS

7-5. UNIT – PARTS

A. How to replace the COMPRESSOR, its Parts and Refrigerant.

A-1. Remove the Mounting Screws from the sides of the front BOTTOM GRILL.



A-2. Remove the BOTTOM GRILLE as the picture



7. REPLACEMENT OF MAIN COMPONENTS

A-3. Remove the front Screws for the UNIT BASE.



A-4. Pull out the UNIT BASE to the front side.



7. REPLACEMENT OF MAIN COMPONENTS

A-5. Remove the pipe connected to the COMPRESSOR.



A-6. Remove the COMPRESSOR Mounting SCREWS, Replace the COMPRESSOR and weld the piping.



7. REPLACEMENT OF MAIN COMPONENTS

A-7. Remove the side Cover of the COMPRESSOR.



A-8. Replace the O.L.P/PTC RELAYS.



7. REPLACEMENT OF MAIN COMPONENTS

A-9. Vacuum the Pipe at least 30 ~ 40 minutes and make enough vacuum.



A-10. Fill up the Refrigerant in the volume set forth in the service manual.



A-11. After the refrigerant is filled up, check any gas leakage with soap bubbles.

A-12. Put all the parts together in the retro sequence of the disassembly.

7. REPLACEMENT OF MAIN COMPONENTS

B. BALLAST

1. Remove four screws securing the sign frame end separate sign frame end.
2. Separate connector of the Ballast.



3. Remove two screws for separating the Ballast.



8. PART-LIST

Part name	Code	Description	Solid / Glass							
			R23	F23	R49	F49	23G	49G	72R	72F
CASTER BOX ASSY										
CASTER MOVE	R3323-230	SPCC 4"	2	2	2	2	2	2	3	3
CASTER STOP	R3323-240	SPCC 4"	2	2	2	2	2	2	3	3
COMPRESSOR										
COMPRESSOR	R7439-600	SC18CLX2				1			1	
COMPRESSOR	R714A-020	GS26CLX								1
COMPRESSOR	R7439-110	SK1A1C-L2W	1	1	1		1			
COMPRESSOR	R7439-360	CAJ4476						1		
STARTING CAPACITOR	R7549-270	160VAC 145 μ F	1	1	1		1			
STARTING CAPACITOR	R7549-280	125~165AC 410 μ F				1				
RUNNING CAPACITOR	R7549-260	230VAC 15 μ F	1	1	1		1			
RUNNING CAPACITOR	R7549-290	280VAC 23.5 μ F								
HARNESS RELAY A	R7483-023	UL AWG 18		1						
HARNESS RELAY B	R7523-053	UL AWG 18	1							
HARNESS RELAY C	R7483-014	UL AWG 18				1				
HARNESS RELAY D	R7483-033	UL AWG 18			1					
HARNESS RELAY E	R719A-290	UL AWG 18							1	
HARNESS RELAY F	R719A-280	UL AWG 18								1
HARNESS RELAY GA	R7483-051	UL AWG 18						1		
HARNESS RELAY GB	R7483-062	UL AWG 18					1			
POWER-CORD	R729A-030	SJT. L=2950mm. 115V 15A	1	1	1	1	1	1	1	
POWER-CORD	R8393-010	BLK, 12-4 SJT L=3050								1
CONDENSER										
CONDENSER COIL	R2202-031	SWST ϕ 4.76*13190	1	1	1		1			
CONDENSER COIL PIN	R2272-030	CU,545*270*140								1
PIN-CONDENSER	R2273-013	S49F				1			1	
PIN-CONDENSER	R2273-021	S49RG						1		
DRYER	R2183-032	25.4*169*0.635	1	1	1		1			
DRYER ASSY	R2183-200	ϕ 25.73*0.8T *169. CU-PIPE				1		1	1	1
CONDENSER FAN										
CONDENSER FAN MOTOR	R7423-311	AC 115V 60HZ DAI-8204DYCA CW	1	1	1	1	1	1	1	2
CONDENSER FAN BLADE	R3723-070	AL ϕ 225 9" CCW	1	1	1	1	1	1	1	2
CONDENSER FAN MOTOR BRACKET	R3313-260	SBHGI-0 T2.0*164	1	1	1	1	1	1	1	2
DRAIN										
EVAPORATOR DRAIN WATER SMALL	R3743-060	ABS BLK (30211L0700)	1	1			1			
CLOTH WICKING DRAIN WATER	R110A-010	부직포, T=2.5*480*120							8	8
DRAIN PAN	R3742-070	ABS BLK (3011J0102)			1	1		1		
DRAIN WICKING BAR	R3853-230	PP WHT T2.0*40*569	1	1			1			
DRAIN WICKING BAR	R3853-240	PP WHT T2.0*40*657			1	1		1		
GUIDE WICKING	R3853-780	PP(WHITE). 1.5T*269*40							2	2
DRAIN WICKING KIT	R1154-010	PP T2.5*99*103	1	1			1			
CASE VAPORI T49	R3422-012	ABS. 602.5*275*106.5							1	1

Part name	Code	Description	Solid / Glass							
			R23	F23	R49	49F	23G	49G	72R	72F
EVAPORATOR										
EVAPORATOR COIL (EVAPORATOR)	R2263-047	CU+AL								
EVAPORATOR COIL (EVAPORATOR ASSY)	R8613-343	CU+AL								
EVAPORATOR COIL (EVAPORATOR)	R2263-038	CU+AL		1			1			
EVAPORATOR COIL (EVAPORATOR ASSY)	R8613-354	AL	1							
ASSY EVA B72R	R840A-020	AL							1	
ASSY EVA B72F	R840A-030	CU+AL								1
DEFROST HEATER	R7303-412	UL 115V 600W				1				
DEFROST HEATER	R7303-402	UL 115V 445W		1						
DEFROST HEATER 60	R7313-440	115V 900W 14.7Ω								1
HEATER DRAIN PAN	R7303-184	115V 140W				1				
HEATER DRAIN PAN	R7303-174	115V 90W		1						
HEATER DRAIN PAN (GST -60TF)	R7313-431	115V 90W								1
SENSOR BRACKET	R3314-192	P.P, WHT	2	2	2	1	1	2	2	2
EVAPORATOR THERMAL FUSE (BIMETAL)	R7253-052			1		1				
EVAPORATOR FAN MOTOR	R7423-301	AC 115V 60HZ DAI-8204DYCA-1 CCW	1	1	1	2	1	2	2	2
FAN BLADE	R3729-010	8" C.C.W	1	1	1	2	1	2	2	2
EVAPORATOR FAN MOTOR BRACKET	R3204-360	STS-304 T1.0*120*90	1	1	1	2	1	2	2	2
TEMP-THERMISTOR,FRE	R7213-082	YELLOW		1		1				1
DEFROST SENSOR (D-SENSOR)	R7213-210	BLACK. L=180mm		1		1				1
TEMP-DISPLAY SENSOR,REF	R7213-112	WHITE	1		1		1	1	1	
TOP PANEL										
ASSY GRILL TOP	R818A-340	STAINLESS	1	1						
TOP GRILL ASSY	R8182-200	STAINLESS					1			
ASSY GRILL TOP	R818A-350	STAINLESS			1	1				
TOP GRILL ASSY	R8182-510	STAINLESS						1		
TOP GRILLE AS B72	R858A-560	STAINLESS							1	1
MASCOT (BLUE AIR)	R514A-031	T3.8 *90*64	1	1	1	1	1	1	1	1
FREEZER MAIN PCB	R725A-130	FRE. 115V		1		1				1
REFRIGERATOR MAIN PCB	R725A-120	REF. 115V	1		1				1	
REFRIGERATOR MAIN PCB	R7109-770	REF. 115V					1	1		
CONTROL BOARD (DIGITAL DISPLAY)	R4142-122	ABS,BLACK. T2*242*72	1	1	1	1	1	1	1	1
DISPLAY PCB (°F)	R7113-210	88 SEGMENT. °F	1	1	1	1	1	1		
INLAY CONTROL	R511A-010	PC-SHEET	1	1	1	1	1	1		
SUPPORTER	C3379-240	DSAA-9N	4	4	4	4	4	4		
POWER RELAY	R7253-060	OMRON G7L-1A-TUB				1		1		
DOOR SWITCH	R7203-020	WHT. SP201R-9D	1	1	2	2	1	2		
HARNESS SWITCH A	R7403-080	UL, AWG 18						1		
HARNESS SWITCH B	R7403-091	UL, AWG 18					1			
HARNESS SWITCH C	R7483-131	UL, AWG 18			1	1				
HARNESS SWITCH D	R7483-140	UL, AWG 18	1	1						
HARNESS SWITCH B72	R719A-300								1	1
DOOR LOCK	R3739-010	ZDC, ZCR	1	1	2	2	1	2	3	3

Part name	Code	Description	Solid / Glass							
			R23	F23	R49	F49	23G	49G	72R	72F
BOTTOM GRILL										
ASSY GRILLE BOTTOM	R818A-310	STAINLESS	1	1						
ASSY GRILLE BOTTOM	R818A-300	STAINLESS			1	1				
BOTTOM GRILL ASSY	R8182-380	STAINLESS					1			
BOTTOM GRILL ASSY	R8182-520	STAINLESS						1		
BOTTOM GRILL ASSY	R858A-400	STAINLESS							1	1
SHELF										
ASSY SHELF CLIP	R8429-080	32 SET			1	1		1		
ASSY SHELF CLIP	R8429-060	16 SET	1	1			1			
ASSY SHELF CLIP	R835A-020	50SET							1	1
SHELF STANDARD, L	R3373-630	T1.2*930mm	4	4	8	8	4	8	8	8
DOOR										
ASSY DOOR RH-BM	R817A-340	STAINLESS	1	1	1	1			2	2
ASSY DOOR LF-BM	R817A-330	STAINLESS			1	1			1	1
GLASS DOOR ASSY	R8172-670	GLASS					1			
DOOR ASSY RH	R8172-640	GLASS						1		
DOOR ASSY LF	R8172-630	GLASS						1		
GASKET DOOR BM	R338A-040	RD-PVC BLACK	1	1	2	2			3	3
DOOR GASKET, ASSY	R3903-552	RD-PVC BLACK					1	2		
ASSY CROSS BAR	R816A-280	115V 30W			1				2	
ASSY CROSS BAR	R816A-290	115V 38W				1				2
ASSY HINGE TOP RH	R828A-062	STS304- T=4.0	1	1	1	1			2	2
ASSY HINGE TOP LF	R828A-052	STS304- T=4.0			1	1			1	1
SHAFT TOP HINGE AS	R858A-410	SUM24L Ø15*114	1	1	2	2			3	3
PIN TENSION	R412A-020	SUM24L Ø5*22	1	1	2	2			3	3
ASSY HINGE BOTTOM RH	R828A-020	STS304 T=4.0	1	1	1	1			1	1
ASSY HINGE BOTTOM LF	R828A-030	STS304 T=4.0			1	1			1	1
ASSY HINGE BOTTOM MID	R828A-040	STS304 T=4.0							1	1
STOPPER HINGE LF	R375A-020	POM (FW700S) 45.5*31*8			1	1			1	1
STOPPER HINGE RH	R375A-010	POM (FW700S) 45.5*31*8	1	1	1	1			2	2
STOPPER DOOR RH	R375A-030	POM (FW700S)	1	1	1	1			2	2
STOPPER DOOR LF	R375A-040	POM (FW700S)			1	1			1	1
DOOR HINGE BOTTOM RH	R3393-341	T10*48*64*63 ZDC 2					1	1		
DOOR HINGE BOTTOM LF	R3393-351	T10*48*64*63 ZDC 2						1		
DOOR HINGE TOP	R3393-312	T10*48*64*63 ZDC 2					1	2		
DOOR HINGE STOP PIN	R3044-040	STS304 ϕ 3*30					1	2		
LAMP										
LAMP BULB	R7394-010	25T 10/120V 25W	1	1	1	1			2	2
FLUORESCENT LAMP										
FLUORESCENT LAMP	R7393-150	32W					1	1		
BALLAST	R7553-050	115V 60HZ 32W					1	1		
EVAPORATOR FAN (MOTOR) GUARD	R3812-141	HIPS (VH-1800EX)	1	1	1	2	1	2	2	2
KEY SETS	R3739-010	ZDC, ZCR	1	1	2	2	1	2	3	3
POWER SWITCH	R7204-070	SL112A, 125V 15A	1	1	1	1	2	2	1	1