



CAFF23

Caple Side by side F.Freezer

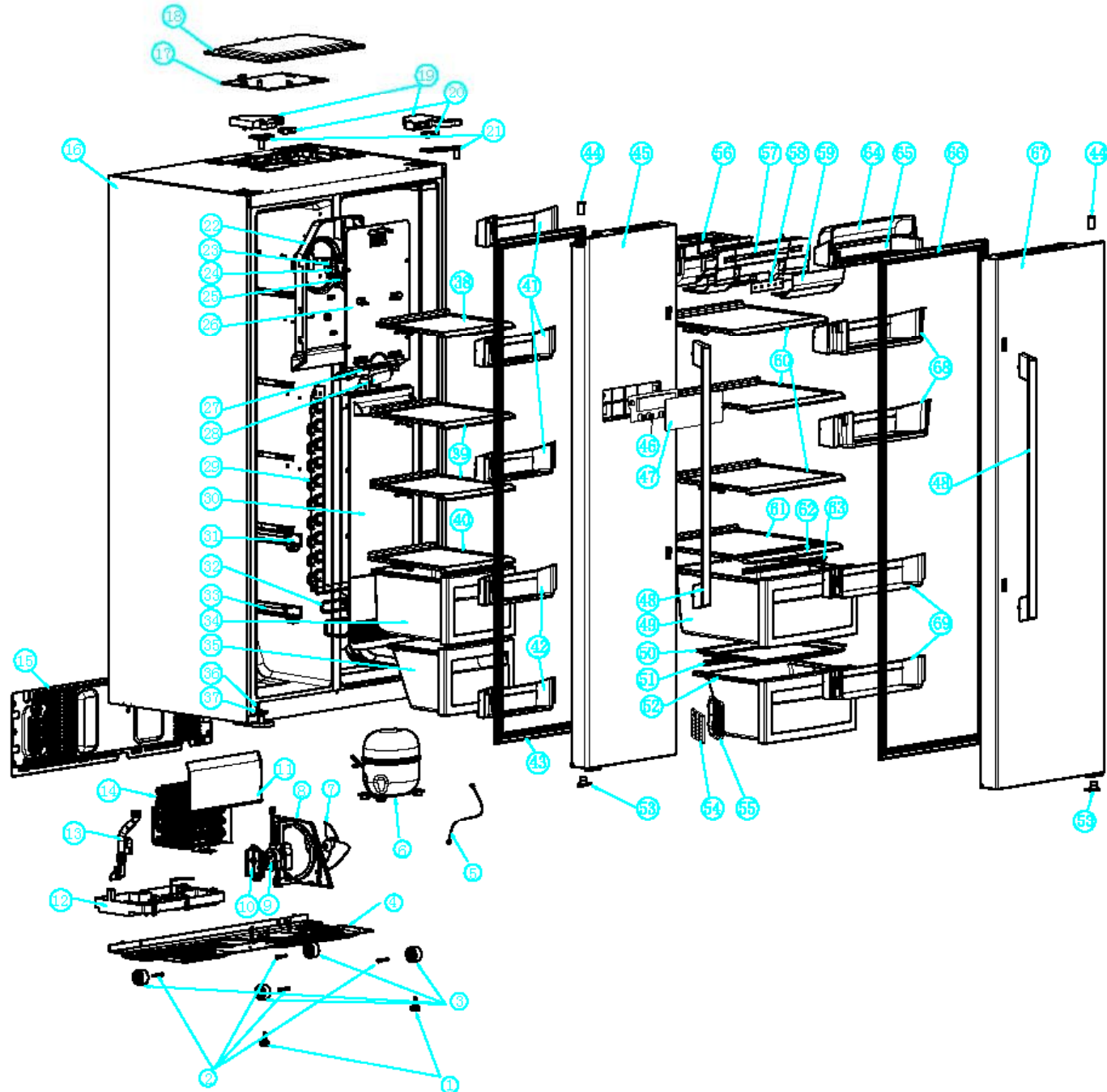


Technical information



CAFF23

Cape Side by side Fridge Freezer





CAFF23 - Caple Side by side Fridge Freezer

Item	Part Code	Description	Qty
1	GA0200217	adjust foot	2
2	GJ9900036	wheel axes	4
3	GS9900035	wheel	4
4	GA0200234	compressor support plate complete	1
5	DA0100256	compressor ground wire	1
5	DAOIOO256	compressor	1
7	DS0200212	fan blade for condenser	1
8	GS0200239	condenser fan bracket	1
9	DA0200240	condenser fan motor	1
10	DS0200241	cover for condenser fan motor	1
11	GS0200238	sealing part for condenser	1
12	GS0200237	dew-water box	1
13	GA0100055	dew-water Tube complete	1
14	LA0200243	condenser complete	1
15	GK0200260	cove for compressor room	1
16	GA1000002	cabinet foamed	1
17	DAOIOO228	power/control module	1
18	GS0100231	cover for power/control module	1
19	GS0200204	cover for top hinger	2
20	DA020020503	light switch	2
21	GAOIOO206	top hinger complete	2
22	FS0200075	bracket for freezer fan	1
23	DA0200078	freezer fan motor	1
24	DS0200081	cover for freezer fan motor	1
25	DS0200079	freezer fan blade	1
26	FS0200065	air channel(up) for freezer	1
27	DA0200068	freezer LED light	1
28	GS0200069	cover for freezer light	1
29	LA0100262	evaporator complete	1
30	FS0200072	air channel (base) for freezer	1
31	GA0100107	normal rail for drawer	4
32	DA0200313	defrosting heater	1
33	GA0100121	rail for freezer drawer (base)	2
34.	GA0100118	freezer drawer (up)	1
35	GA0100123	freezer drawer (base)	1
36	GJ0200215	door stopper	2
37	GS0200214	door closer (base)	2
38	GA0100109	freezer glass shelf I	1
39	GA0100112	freezer glass shelf II	2
40	GA0100115	freezer glass shelf III	1
41	GS0100221	freezer tray I	3
42	GS0100222	freezer tray II	2
43	GA5100194DI	freezer door gasket	1
44	GS0100209	sleeve for top hinger	2



CAFF23 - Caple Side by side Fridge Freezer

Item	Part Code	Description	Qty
45a	GA2100160	freezer door foamed - Until Nov-16	1
45b	GA2100160N	freezer door foamed - From Nov-16	1
46	DA2200179	display/operation module	1
47	DA2200176	cover for display/operation module	1
48	GA5100181	door handle	2
49	GA0100096	cooler drawer I	1
50	GS0200L03	tray for humidity keeping	1
51	GS02000930I	sealing part f'or cooler drawer (I)	1
52	GA0100104	cooler drawer II	1
53	GS5200172	door close (up)	1
54.	FH0200129	deodorizer	1
55	FS0200128	suction cover'	1
56	FA0200143	EPS air channel cooler	1
57	FS0300136	air channel cover cooler	1
58	DA0300138	cooler LED light	1
59	GS0300139	cooler LED Light cover	1
60	GA0100307	cooler glass shelf I	3
61	GA0200090	cooler glass shelf II	1
62	GA0200131	turnable glass shelf	1
63	GS02000930I	sealing part for turnable glass shelf	1
64	GA0200227	cooler tray cover	1
65	GA0200226	cooler tray	1
66	GA5100502CI	cooler door gasket	1
67a	GA310019804	coolet door foamed - Until Nov-16	1
67b	GA310019804N	coolet door foamed - From Nov-16	1
68	GA0100373	cooler tray I	2
69	GS0100224	cooler tray II	2



CAFF23

Caple Side by side F.Freezer



Service Manual

Contents

1、 Introduction

2、 Input and Output controlling

2.1、 Input signal

2.1.1、 Temperature sensors

2.1.2、 Doors lamp switches

2.1.3、 Touch Buttons

2.2、 Output signal

2.2.1、 Loads output

3、 DOM contents and rule

3.1、 Interface of DOM

3.2、 Temperature setting function for F-comp. and R-comp.

3.3 Child lock

3.4 Super freezing

3.5、 Display rule of DOM

4、 Others program

4.1 Fault checking program

1. Introduction

rated voltage: 220V/50Hz

(max. rated voltage: rate voltage \pm 15%), Ambient temperature: 10 $^{\circ}$ C~43 $^{\circ}$ C

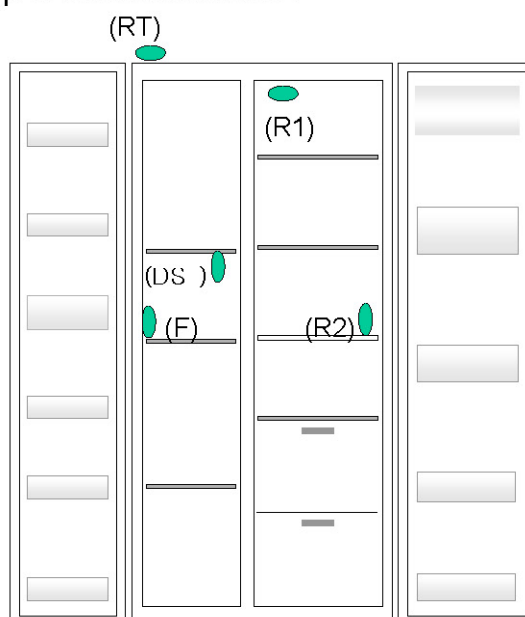
2. Input and Output controlling

2.1. Input signal

2.1.1. Temperature sensors

No	Name	Location	Temp. scope of sensors		
			Wire break	Normal	Open circuit
1	F-sensor	Left-middle side of F-compartment	Less than -50	-50~80	More than 100
2	R-sensor 1	Left side of air-input rim in R compartment	Less than -50	-50~80	More than 100
3	R-sensor 2	Right-middle side of R compartment	Less than -50	-50~80	More than 100
4	Defrost sensor	Upper-right corner of evaporator	Less than -50	-50~80	More than 100
5	Ambient sensor RT	Front-top of cabinet	Less than -50	-50~80	More than 100

2.1.1.1. Distribution map of sensors location



2.1.2. Door lamp switches

2.1.2.1. R-compartment switch

2.1.2.2. F-compartment switch

2.1.3. Touch Buttons

2.1.3.1. Cooler temperature

2.1.3.2. Freezer temperature

2.1.3.3. Super freezing

2.1.3.4. Child lock

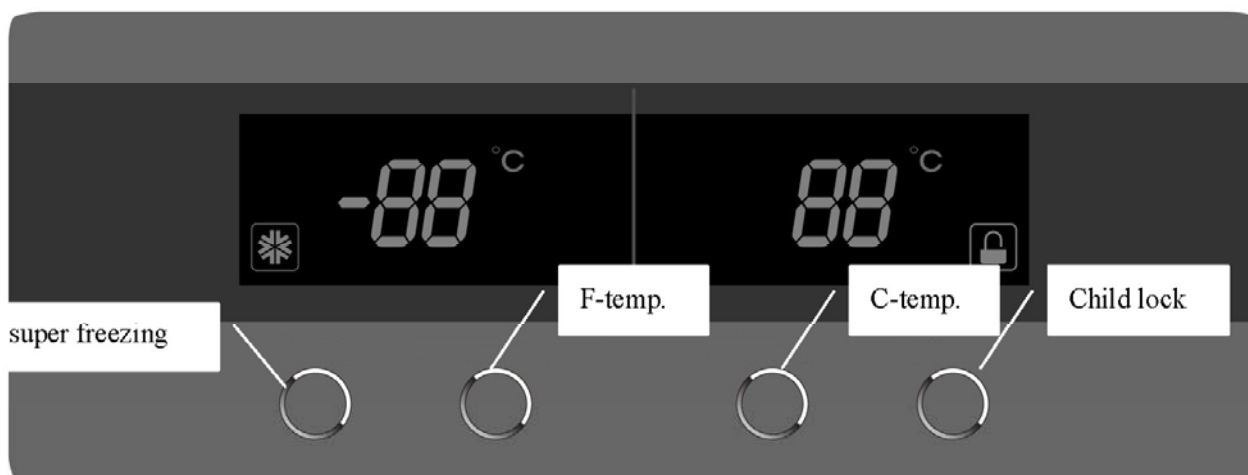
2.2. Output signal

2.2.1. Loads output

No	Parts	Controlling mode
1	compressor	Run/stop
2	condenser fan	Run/stop
3	F-compartment fan	2 shifts speed
4	R-compartment LED lamp	Run/stop
5	F-compartment LED lamp	Run/stop
7	DiD heater	Run/stop
8	Defrost heater	Run/stop
9	Damper	Run/stop
10	Damper heater	Run/stop
11	DOM and Buzzer	

3. DOM contents and rule

3.1. Interface of DOM



3.2. Temperature setting function for F-comp. and R-comp.

The setting temperature changing can be carried out by pressing buttons, the corresponding relation between pressing times and setting temperature is as below:(circle according to below the list) unit: °C

Compartment	Defaulted T display when switch on	Press 1 time	Press 2 times	Press 3 times	Press 4 times	Press 5 times	Press 6 times	Press 7 times	Press 8 times
F-comp. temperature	-18	-19	-20	-21	-22	-23	-15	-16	-17
R-comp. temperature	5	4	3	2	1	0	6	-	-

※ 1.All of temperatures setting are gone into effect, 10s after the operation is done

2.The LED lamps switch off , 15s after the setting finish; all of lamps will be illumed only when any button is touched in the case of all of lamp close up, but setting function hasn't been activated yet. and then, other lamps will close up at the same time if any button is pressed again.

3.3.Child lock

3.3.1. The child-lock button is in unlocking state when the appliance is switched on first, the icon isn't displayed on DOM.

3.3.2. Others button on DOM can't be operated after the lock button is activated, this moment, the icon of lock button illumed. if the button is pressed again, the icon

flashes and buzzer sounds.

3.3.3. Activating way: press the lock button for 3s, Heard a sound of "Ding", the icon of lock button illuminate on DOM. same way for unlock.

3.4. Super freezing

the super freezing can be activated by pressing the button and related LED lamp illuminate at the same time. the function unlocks and LED lamp closes by pressing the button again.

3.5. Display rule of DOM

3.5.1. Controlling rule of default mode

a、 LED lamp of DOM illuminate when they are operated, and then , the LED lamp will close ,30s after the operation finishes.

b、 LED lamp illuminate when doors are opened, and then, they close over 30s;

※ All of LEDs will be ON when buttons of freezer-temp. and super freezing are pressed at the same time. release them, renew to default mode

4. Others program

4.1. Fault checking program

4.1.1. Display under fault mode

Important fault codes can be displayed under all of LEDs display status (press buttons of super freezing and freezer temp. at the same time)if they happen after 3 hours

4.1.2. Fault codes and definition

NO	Item	Fault display		Fault definition	Remark
		Freezer setting temp.	cooler setting temp.		
1	Normal	setting temp. display		-	Normal display
2	F-sensor abnormal	Er	FS	F-sensor break or short	Check wire of sensors
3	AT-sensor abnormal	Er	rH	AT-sensor break or short	
4	C-sensor 1 abnormal	Er	rS	C-sensor 1 break or short	
5	C-sensor 2 abnormal	Er	r2	C-sensor 2 break or short	
6	Defrosting sensor abnormal	Er	dS	Defrost break or short	
7	Defrosting abnormal	Er	dH	Temperature rising of D-sensor is less than 5°C for 80 min from defrost starting	
8	Condenser fan abnormal	Er	CF		T-fuse breaking, heater break, drain tube block, relay of heater fault
9	Communication abnormal	Er	CO	Communication between PCB and DOM	

4.1.3. Starting sequence list of Loads

Function	Starting sequence of loads	Remark
	<pre> graph LR A[power on] -- 0.5s --> B[com. ON] B -- 0.5s --> C["F-fan ON (high speed) Condenser fan ON"] C -- 0.5s --> D[damper ON] E[DiD heater ON] A -.-> E style E stroke-dasharray: 5 5 </pre>	
<p>First power on</p>	<pre> graph TD P1[power ON] -- 1s --> D1[D-heater ON] D1 -- 5s --> D2[D-heater off] D2 -- 0.5s --> DiD1[DiD-heater ON] DiD2[DiD-heater OFF] -- 5s --> DH1[Damper-heater ON] DH1 -- 0.5s --> DH2[Damper-heater OFF] F1[F-fan ON (H-speed)] -- 0.5s --> F2[F-fan OFF] F2 -- 5s --> CF1[Cond.-fan ON] CF2[Cond.-fan OFF] -- 5s --> D3[Damper ON] D3 -- 0.5s --> C1[Com. ON] C1 -- 5s --> F3[F-fan ON (H-speed) Cond. fan ON] DiD1 --> F3 DH2 --> F3 CF1 --> F3 </pre>	<p>The self-checking program will be broken off if faults exist</p>