CAFF206BK

Caple Side by side Fridge Freezer

Technical information

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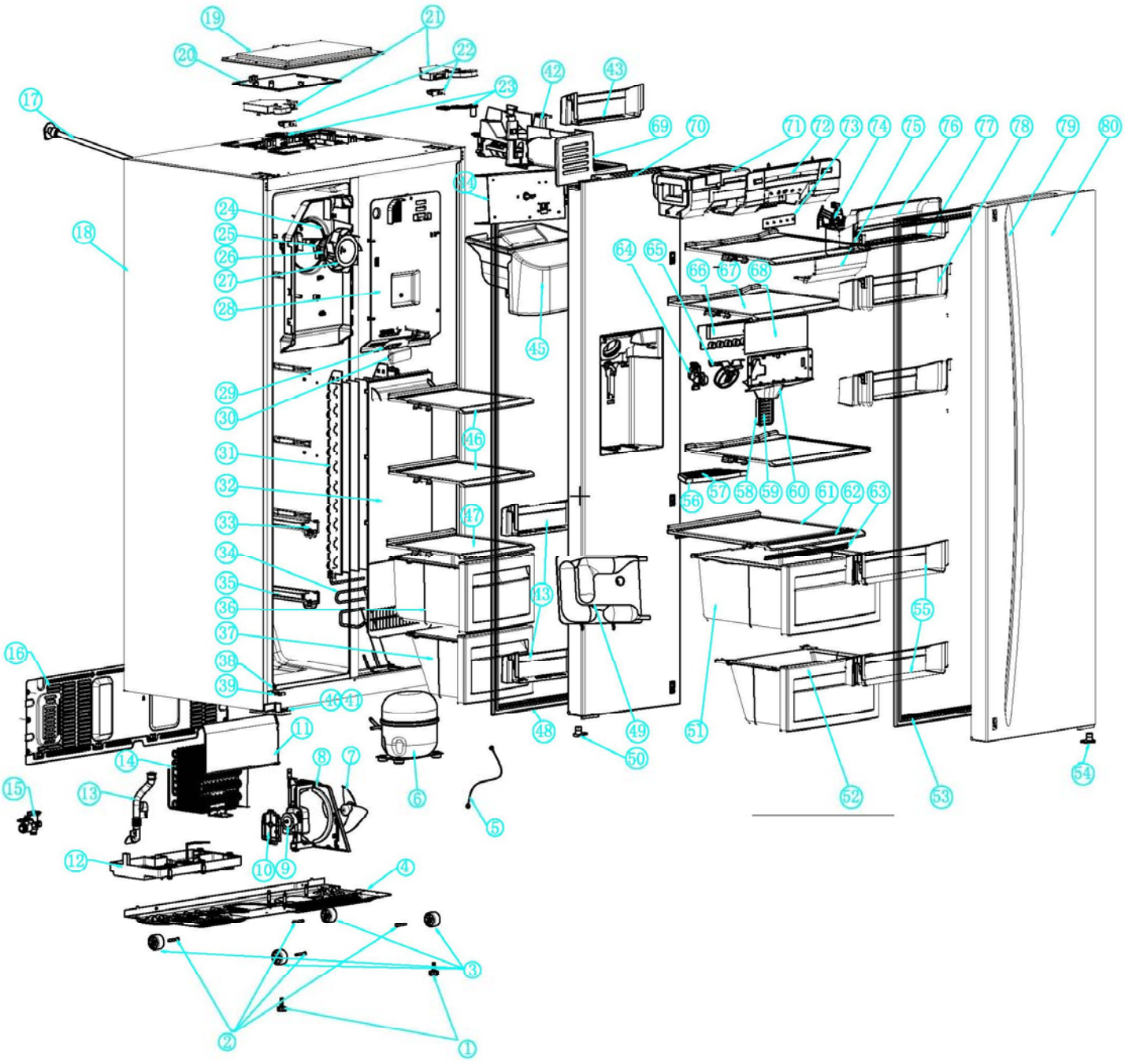

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Item	Part Code	Description	Qty
1	GA0200217	Adjust foot	1
2	GJ9900036	Wheel Axes	1
3	GS9900035	Wheel	1
4	GA0200234	Compressor support plate complete	1
5	DA0100256	Compressor ground wire	1
6	DA0100256	Compressor	1
7	DS0200242	Compressor fan blade	1
8	GS0200239	Condensor fan bracket	1
9	DA0220134	Condensor fan motor	1
10	DS0200241	Cover for condensor fan motor	1
11	GS0200238	Sealing part for condensor	1
12	GS0200237	Dew-water box	1
13	GA0100055	Dew water tube complete	1
14	LA0200243	Condensor complete	1
15	DA0101303	inlet valve	1
16	GK0200260	Compressor cover	1
17	DA0201292	inlet pipe	1
18	GA100130512	Cabinet - Foamed	1
19	DA010217801	Power control module	1
20	GS0101105	Cover for power control module	1
21	GS0200204	Cover for top hinge	1
22	DA0200205	light switch	1
23	GA0100206	top hinge complete	1
24	FS0201103	bracket for freezer fan	1
25	FA0100074	freeser fan motor	1
26	DS0200081	cover for freezer fan motor	1
27	DS0200079	freezer fan blade	1
28	FS0201021	air channel for freezer (up)	1
29	DA0200068	freezer led light	1
30	GS0200069	cover for freezer light	1
31	LA0100262	evaporator complete	1
32	FS0200072	air channel for freezer (base)	1
33	GA0100107	normal rail for drawer	1
34	DA0200313	defrosting heater	1
35	GA0100121	rail for freezer drawer (base)	1
36	GA0100956	freezer drawer (up)	1
37	GA0100957	freezer drawer (base)	1
38	GJ0200215	door stopper	1
39	GS0200214	door closer (base)	1
40	GA0200211	hinge (down)	1
41	GS0200220	hindge sleeve (down)	1
42	GA0101320	ice maker	1

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Item	Part Code	Description	Qty
43	GS0100221	freezer tray 1	1
44	GA0101321	change and push the ice motor	1
45	GA0101324	ice box	1
46	GS0101139	freezer glass shelf	1
47	GS0100684	freezer glass shelf	1
48	GA5100697D1	freezer door gasket	1
49	GS0101300	water box	1
50	GS5200172	door close (up)	1
51	GA0101318	cooler drawer 1	1
52	GA010095402	cooler drawer 2	1
53	GA5100697C1	cooler door gasket	1
54	GS5200172	door close (up)	1
55	GA0100224	cooler tray 2	1
56	GS2101183	tank seat	1
57	GS2101102	tank cap	1
58	GS2201101	ice button particle decoration	1
59	GS2201100	ice button	1
60	GS2201097	ice mouth	1
61	GS0200687	cooler glass shelf 2	1
62	GS0200686	turnable glass shelf	1
63	GS0200093	seal for turnable glass shelf	1
64	DA2101290	ice valve motor	1
65	GA2101311	ice valve	1
66	DA2201259	display panel	1
67	GA0100086	R glass shelf	1
68	DA2201098	display panel coated parts	1
69	GS0101090	ice maker decorative cover	1
70	GA210130724	freezer door - foamed	1
71	FA0200143	EPS air channel cooler	1
72	FWS0300136	air channel cooler cover	1
73	DA0300138	cooler led light	1
74	GA0101302	filter	1
75	GS0300139	cooler led light	1
76	GA0200227	flip bottle box cover	1
77	GA0100226	flip bottle box seat	1
78	GA0100223	cooler tray 1	1
79	GA5101249	cooler led light	1
80	GA300019893	cooler door - foamed	1

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Service Manual

Contents

1. Introduction

Rated voltage: 220V/50Hz (max. rated voltage: rate voltage±15%)

Ambient temperature: 10℃~43℃

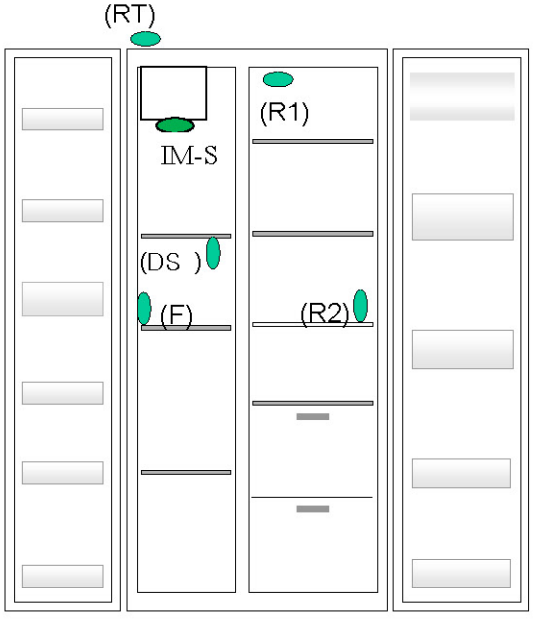
2. Input and Output controlling

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
6	IM-S (Ice-Marker Sensor)	Bottom of ice-maker shelf	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. Supper freezing

2.1.3.4. Child lock

2.2. Output signal

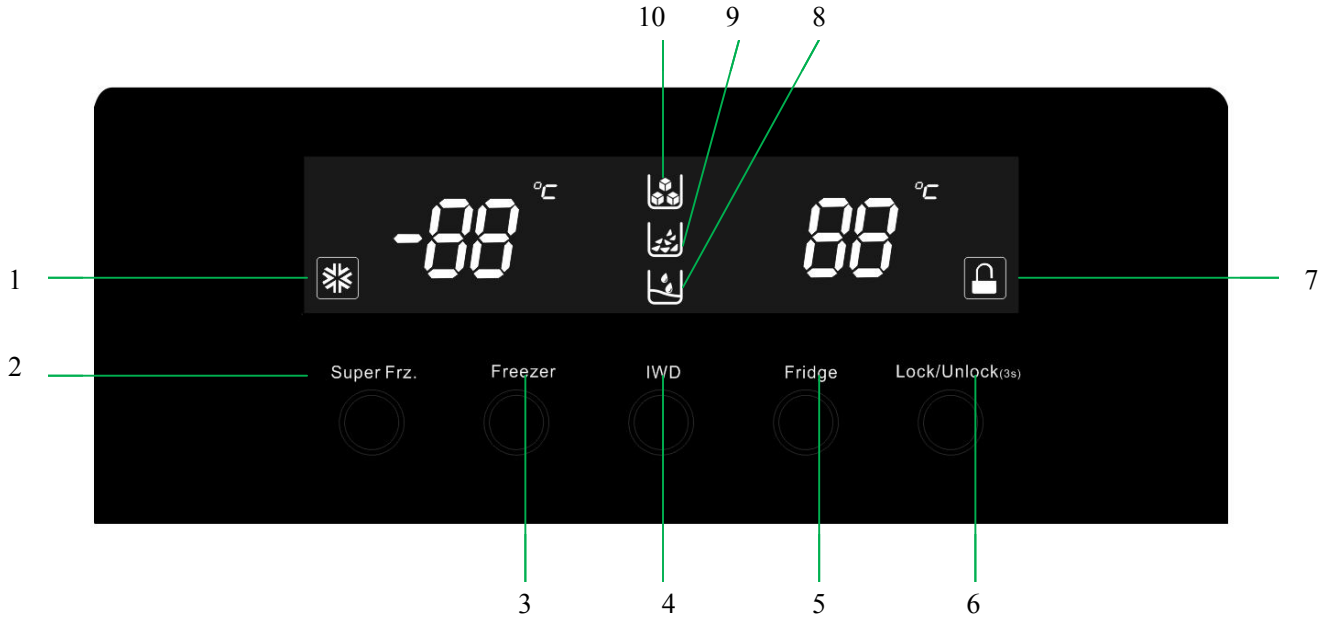
2.2.1. Loads output

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
6	IWD 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	According to PCB
12	Motor of ice-marker	According to PCB
13	Motor of moving ice	Run/stop

14	E-valve of choosing ice	Run/stop
15	Motor of flap	Run/stop
16	Heater of flap	Run/stop
17	Heater of dispenser	Run/stop
18	Heater of Filling in water	Run/stop
19	Micro-switch	Run/stop
20	Water valve	Run/stop

3. DOM contents and rule

3.1. Interface of DOM



1	**"Super freeze icon"** To display the super freeze	**5**	**"Fridge button"** To switch on the fridge and set temperature	**9**	**"Crushed ice icon"** To display the selected crushed ice of IWD
2	**"Super freeze button"** To switch on the super freeze	**6**	**"Lock button"** switch the button lock on and off	**10**	**"cube ice icon"** To display the selected cube of IWD
3	**"Freeze button"** To switch on the freeze and set temperature	**7**	**"Lock icon"** display the button lock on and off		

4	**"IWD button"** To switch on the IWD and selected cube/ crushed ice/ water	**8**	**"water icon"** To display the selected water of IWD		

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: ℃

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 illume. 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 illume on DOM. same way for unlock.

3.4. Supper freezing

the supper freezing can be activated by pressing the button and related LED lamp illume 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 illume when they are operated, and then , the LED lamp will close ,30s after the operation finishes.

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

※ All of LEDs will be ON when buttons of freezer-temp. and supper 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

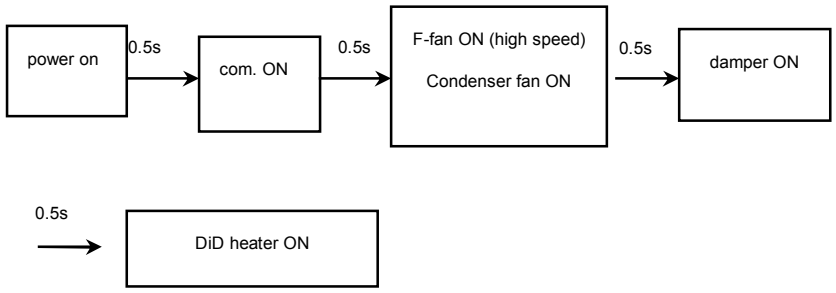
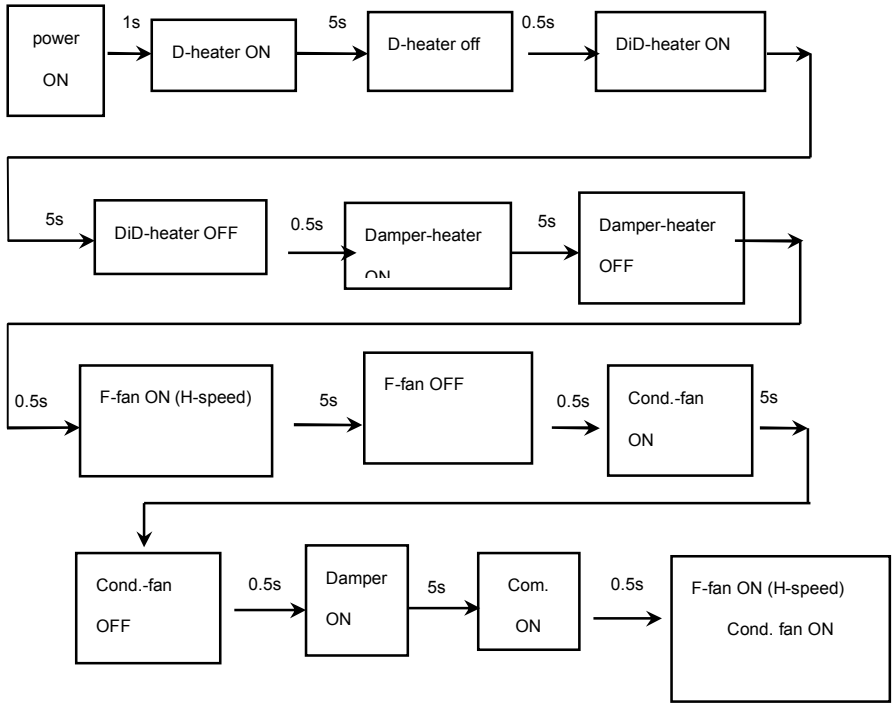
Important fault codes can be displayed under all of LEDs display status (press buttons of super freezing and freezer temp. at the same time)if they happen after 3 hours

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℃ for 80 min from defrost starting	T-fuse breaking, heater break, drain tube block, relay of heater fault
8	Condenser fan abnormal	Er	CF		

9	Communication abnormal	Er	CO	Communication between PCB and DOM	

4.1.3. Starting sequence list of Loads

Function		Starting sequence of loads	Remark
First power on	Defrost sensor temperature is more than 45℃		The self-checking program will be broken off if faults exist
	Defrost sensor temperature is less than 45℃		

5. Additional content for IWD

1.1 Work steps of IWD

Power (opening switch of Ice marker)--------checking for reset position of Ice marker shelf--------fill in water----------making ice-------moving ice------filling in water (cycle)

1.1.1 Checking for reset position of Ice marker shelf

The ice marker will be reset when the power is switched on first time so that the shelf of ice-marker is located level position.

1.1.2 Filling in water

Opening valve of ice marker and filling in water for 5s after the shelf is located level position.

1.1.3 Icing process

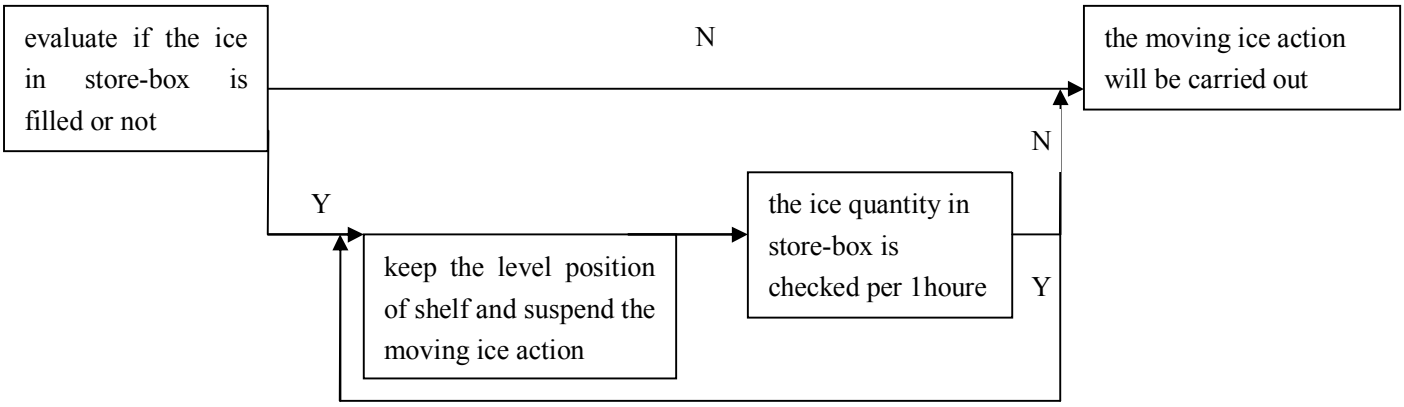
The process is to evaluate if the water in shelf of ice-marker can be iced completely after the filling in water end.

It is checked by sensor which is assembled at bottom of shelf of ice-marker. after icing, the moving ices will be run

1.1.4 Move ice process

After icing, the moving ices will be run. i.e ice in shelf will fall into the store box

The logic process is:



Remark: the moving ice action is carried out twice in order to ensure that the ice of shelf is moved out completely

1.1.5 Ice-marker closing

The shelf of ice-marker will be reset to level position after the switch of ice-marker is closed. icing function stops

The dispenser can be operated for taking ice and water

1.2 **Control program of dispenser**

The function of taking ice and water will be stopped when F-door is opened in order to avoid secure risk

The related icons need to be chosen first before the ice or water is taken, and then , press the switch of dispenser to get the ice or water

1.2.1 Dispensing crushed ice：

Choose the crushed ice button on DOM, and then, press the switch of dispenser,

start up screw to take the crushed ice after ice-valve opened. The taking ice will be stopped once it leaves from the switch of dispenser

The crushed ice is default mode when power on at first time.

1.2.2 Dispensing ice cube：

Choose the ice cube button on DOM, and then, press the switch of dispenser, start up electromagnet and screw to take the ice cube after ice-valve is opened. The taking ice stops once it leaves from the switch of dispenser

1.2.3 Dispensing water：

Choose the water button on DOM, and then, press the switch of dispenser, start up water-valve to take the cooling water from fridge. The taking water stops once it leaves from the switch of dispenser

1.2.4 Dispenser light：

Press the switch of dispenser，LED light. The light will close if the switch of dispenser is closed after 2s.

1.2.5 Alarm for lacking water：

After filling water for ice-marker is end, if temperature rise of ice-marker sensor is less than 5℃ within 3 minutes, the buzzer will be activated and alarm 1 time per 30s within 5 minutes, later, it will alarm 1time per 1 hour .

1.2.6 Fault of ice-marker sensor

The ice-marker will stop if the sensor of ice-marker occurs fault, "ER IC" of fault code will be displayed on DOM. After the fault is removed ,the ice-marker will be run according to initial program

1.2.7 Start program

Time	Parts	Power (W）
0~12s	level position of ice-marker reset	--
13~16s	heater of dispenser	3.5
17~20s	heater of chute flap	0.5
21~23s	heater of tube for filling in water	4
24~25s	motor of flap	3
26~27s	electromagnet of choosing ice	30~50