



CAFF19BK

Caple Side by Side Fridge Freezer

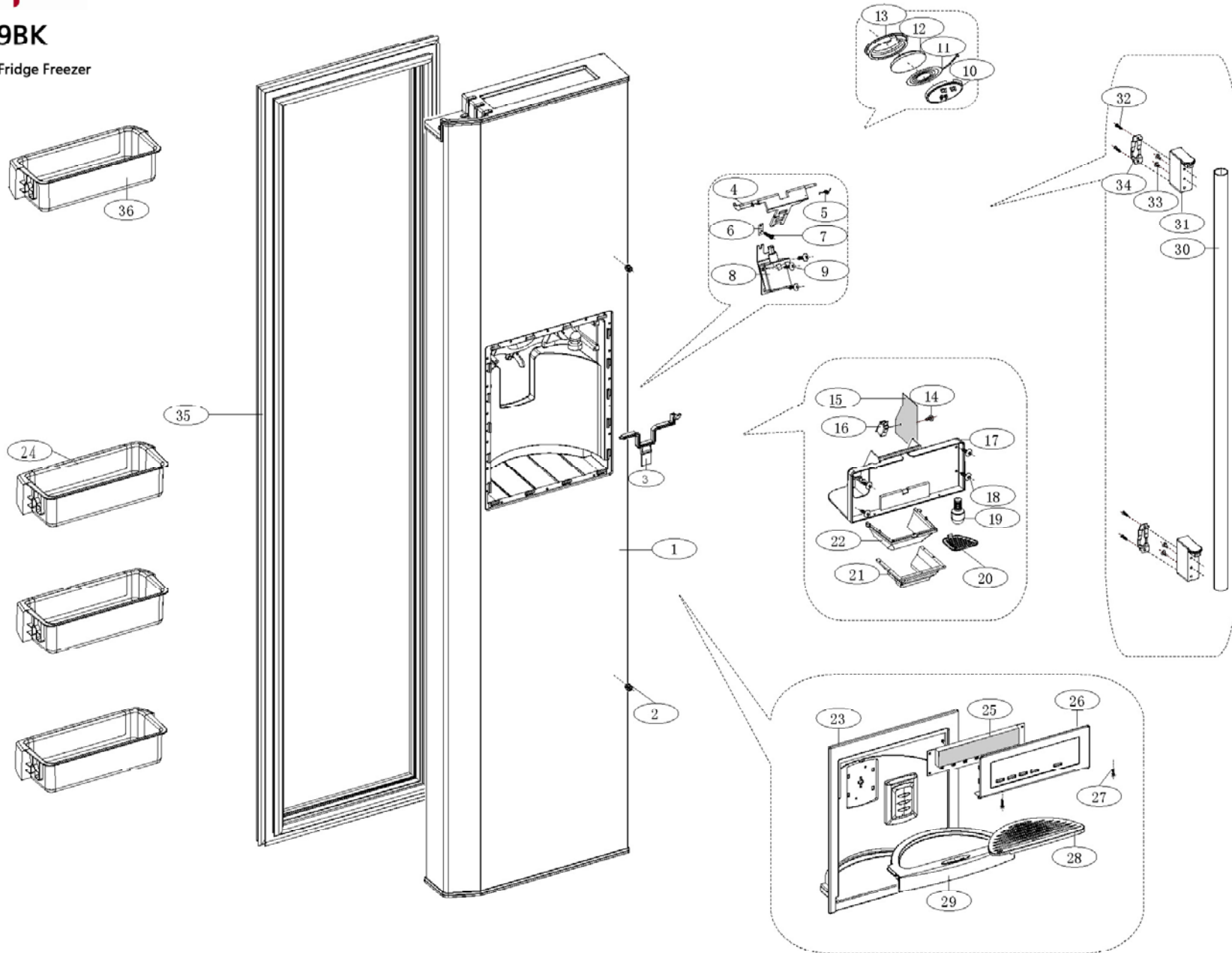


Technical information



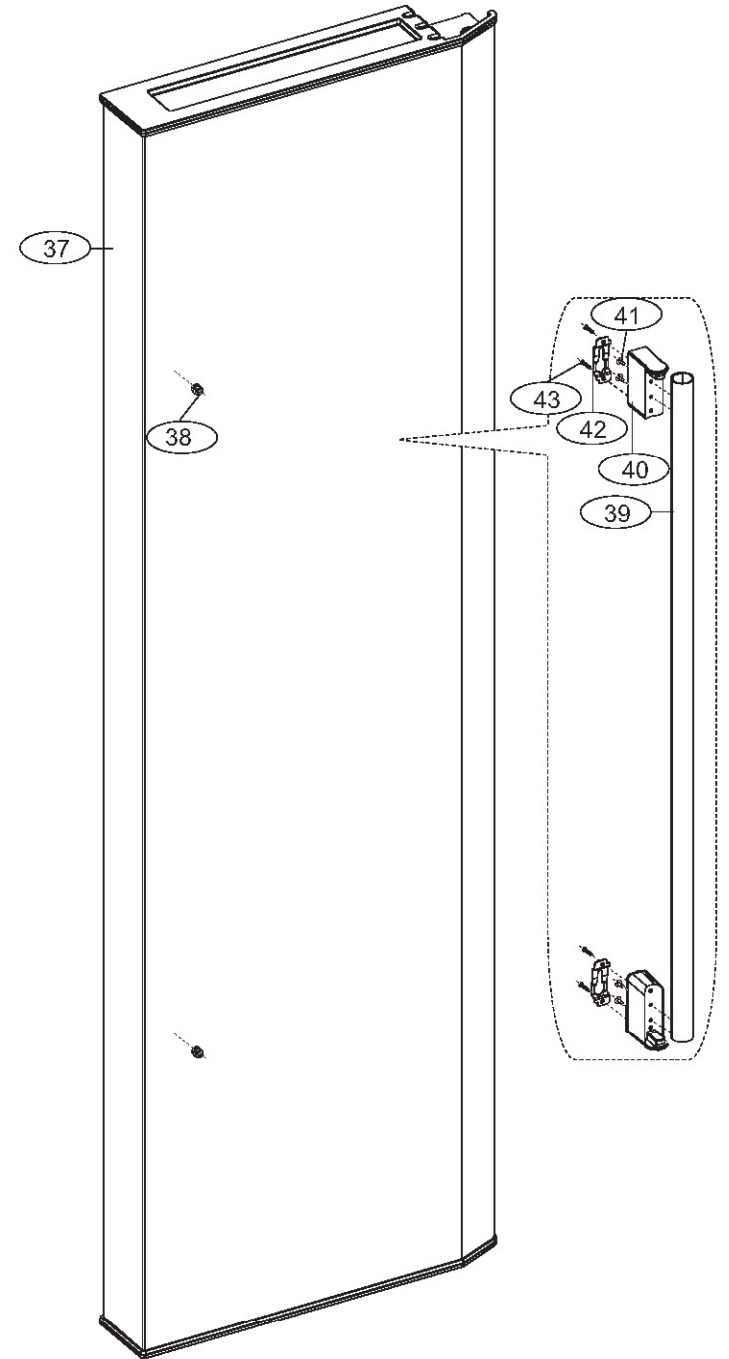
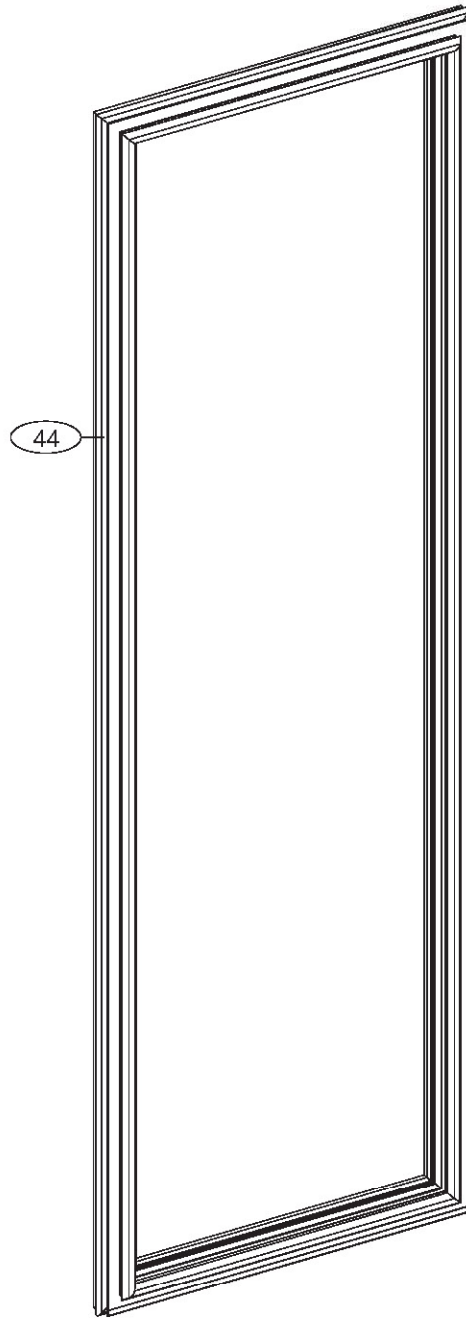
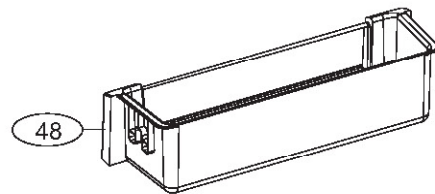
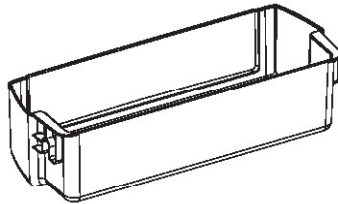
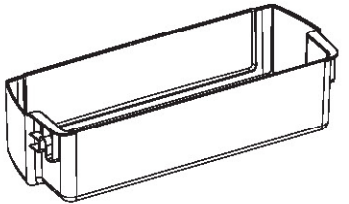
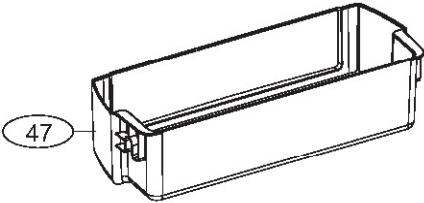
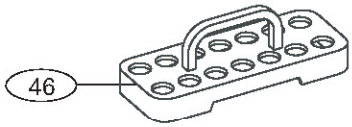
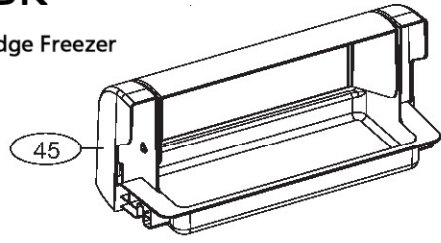
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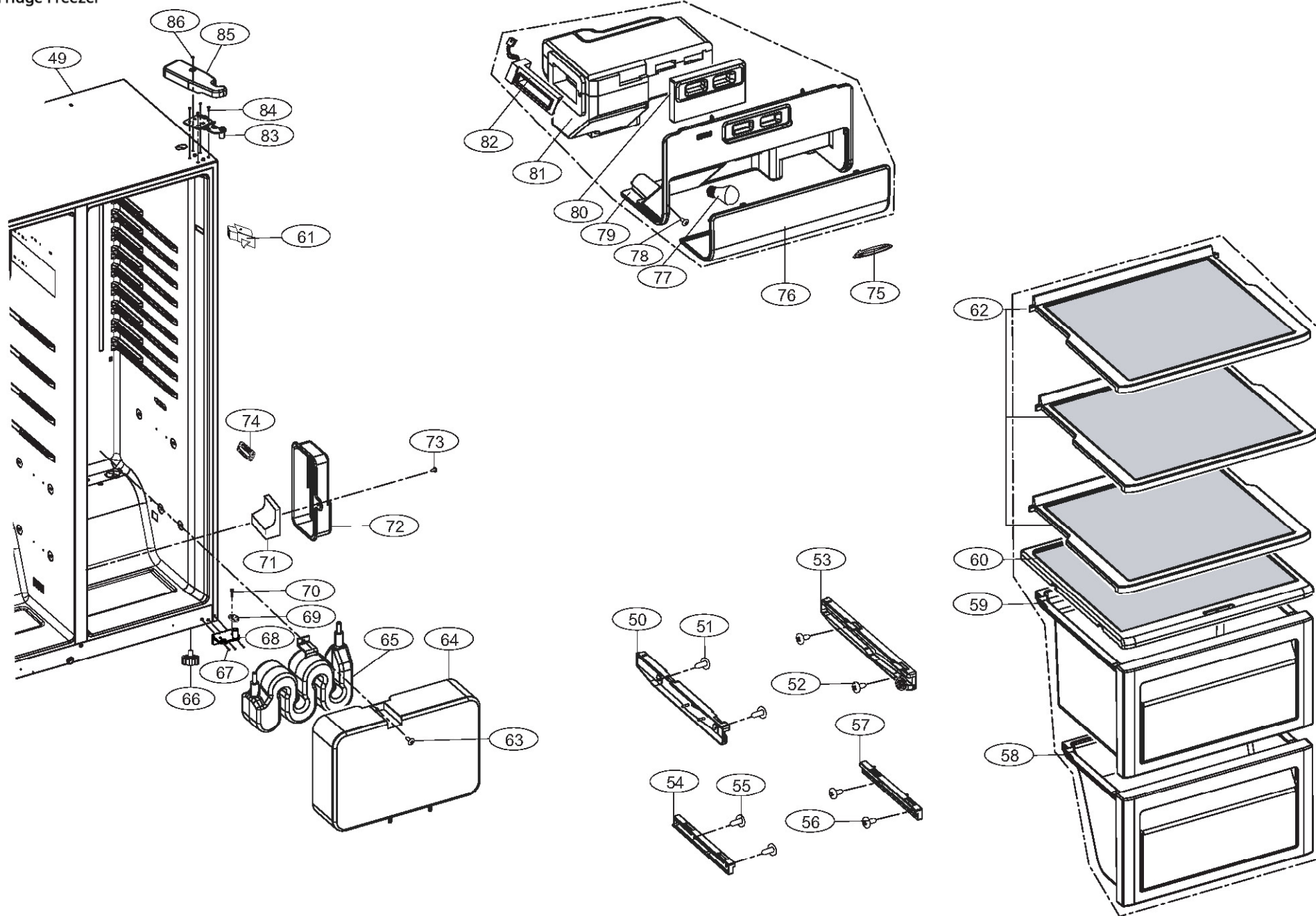
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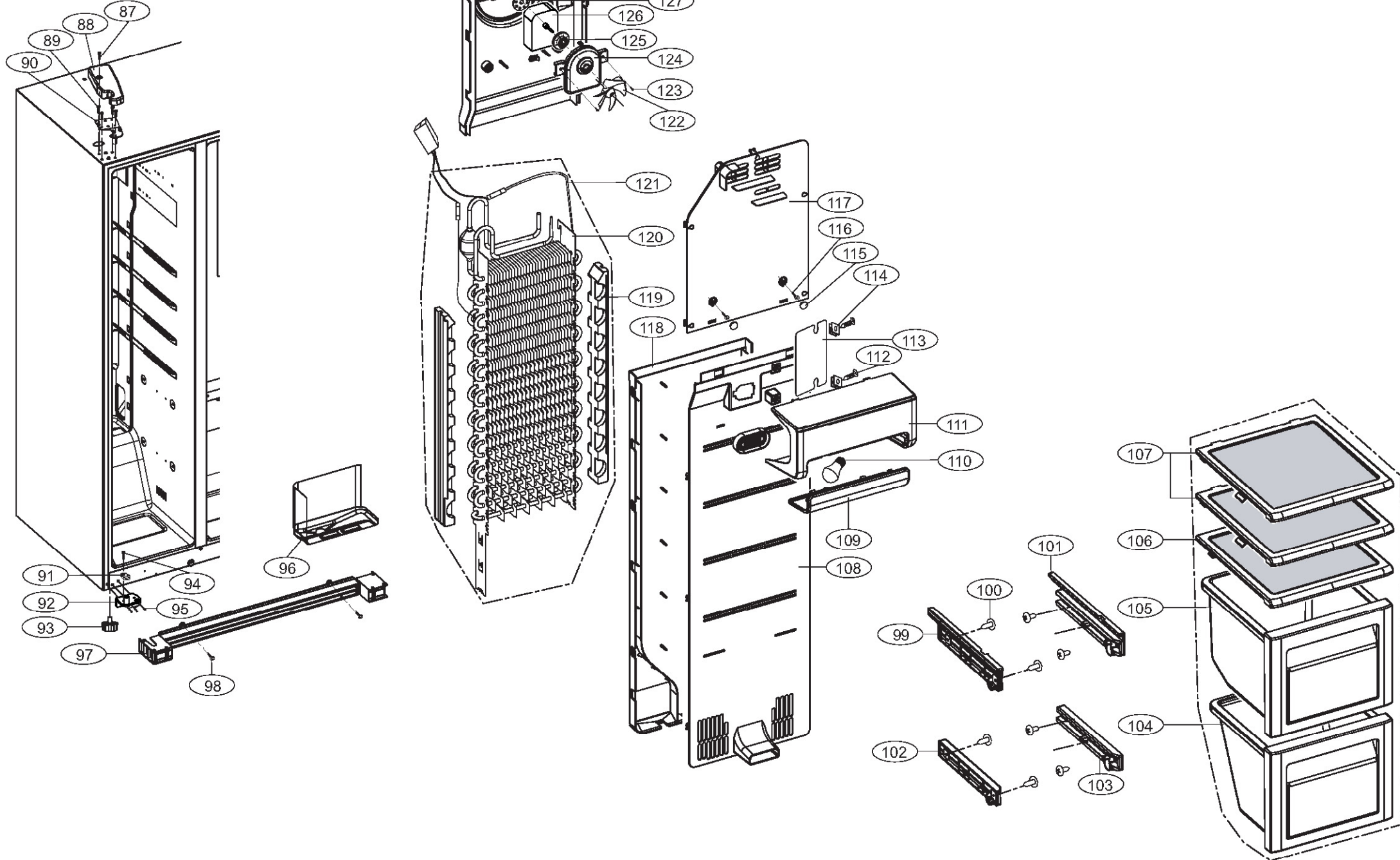
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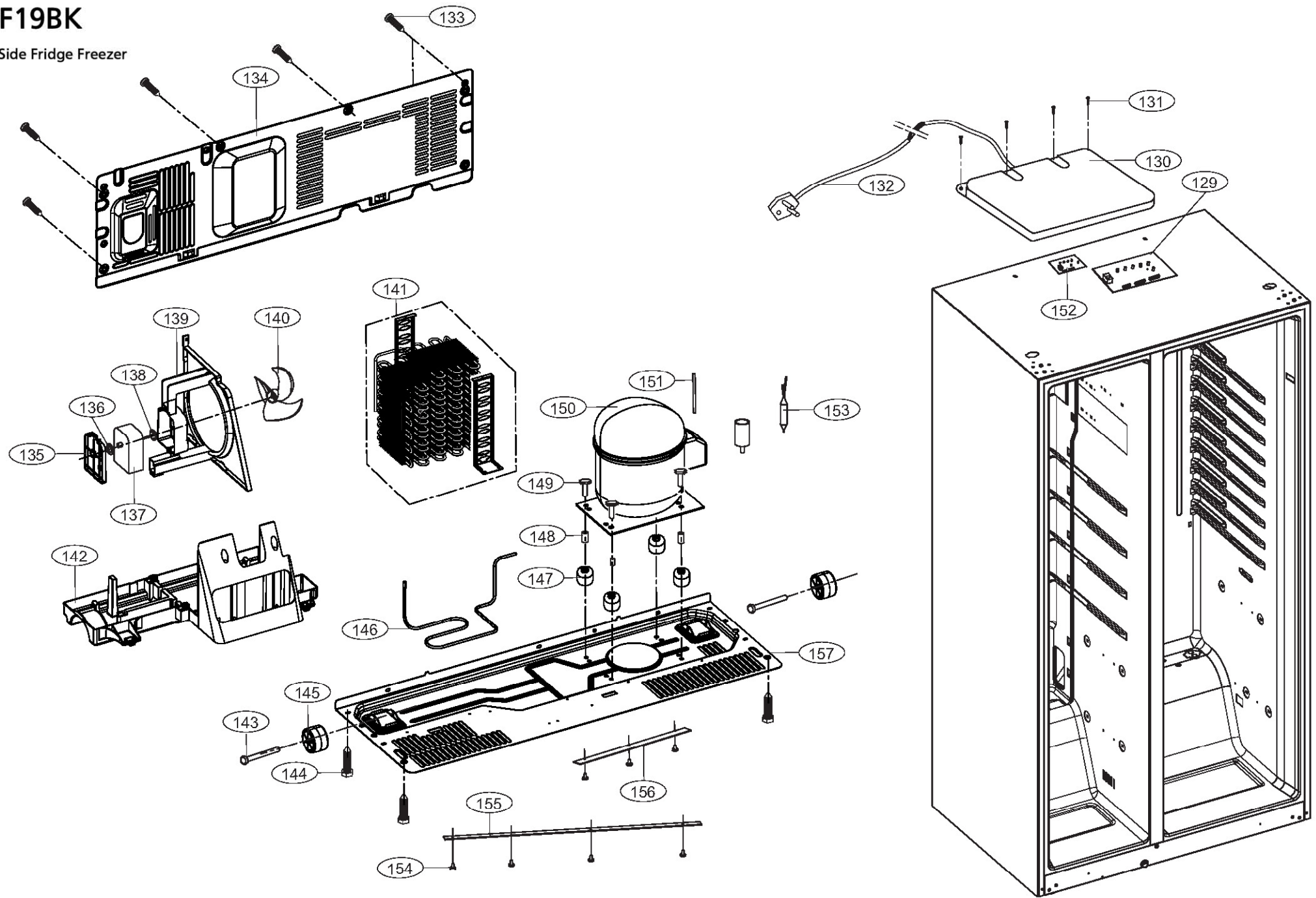
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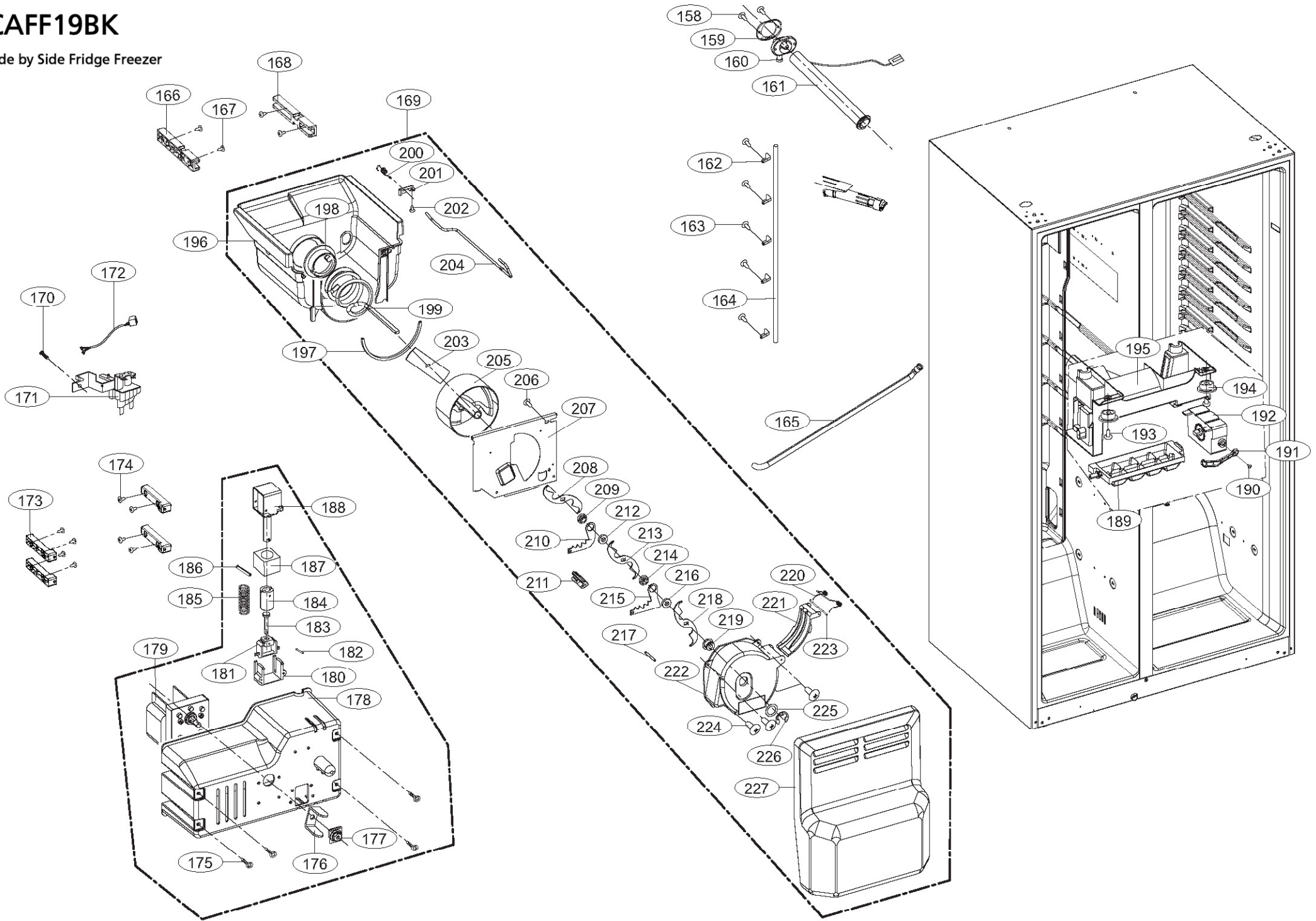
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Caple Side by Side Fridge Freezer



CAFF19BK

Caple Side by Side Fridge Freezer





CAFF19BK - Caple Side by Side Fridge Freezer

Item	Part Code	Description	Qty
1	0060820104C	freezer foamed door	1
2	0060617121	handle fix part	2
3	0060214613	bracket of touch switch	1
4	0064000270	filler lip switch	1
5	0060600070	spring of filler bracket	1
6	0060103988	Press Pad Filler Bracket	1
7	0064082811	Screw	1
8	0060806082	ELECTROMAGNETISM VALVE	1
9	0060600097	Screw	3
10	0060205622	filler cover	1
11	00606040068	cover heater of filler mouth	1
12	0060300254	SPONGE TRAY OF FILLER	1
13	0060300256	SEAL RING OF LEAKING MOUTH	1
14	0064082811	Screw	1
15	0060214992	Switch plywood	1
16	0064000361	Microswitch	1
17	0060818958	bracket of control board	1
18	0060600097	Screw	4
19	0064000156	Lamp	1
20	0060214369	freezer lampshade cover	1
21	0060301125	protection cover tray of filler	1
22	0060215421	cover of filler	1
23	0060819041	dispenser outsider bucket	1
24	0060818280	freezer top bottle seat assembly	3
25	0064001168A	Display panel	1
26	0060808721B	display panel	1
27	0064082855	Screw	1
28	0060215419	small water tray	1
29	0060215418	big water tray	1
30	0060163046	handle	1
31	0060219681	handle seat	2
32	0064098047	Self-screw	4
33	0064082803	Screw	4
34	0060163770	handle fix pad	2
35	0060820384	freezer foamed door seal,black,for CAFF19BK	1
36	0060818280	freezer top bottle seat assembly	1
37	0060823523	fridge foam door	1
38	0060617121	handle fix part	2
39	0060163046	handle	1
40	0060219681	handle seat	2
41	0064098047	Self-screw	4
42	0060163770	handle fix pad	2
43	0064082803	Screw	4



CAFF19BK - Caple Side by Side Fridge Freezer

Item	Part Code	Description	Qty
44	0060820385	fridge door seal assembly,black,for CAFF19BK	1
45	0060818999	fridge top bottle seat assembly	1
46	0060207543	Egg Rack	1
47	0060818348	fridge center bottle seat assembly	3
48	0060818349	fridge bottom bottle seat assembly	1
50	0060818314	container right slide way assembly	1
51	0060600097	Screw	2
52	0060600097	Screw	2
53	0060818315	container right slide way assembly	1
54	0060219817	Rohs-right slide way for vegetable box	1
55	0060600097	Screw	2
56	0060600097	Screw	2
57	0060219580	Rohs-left slide way for vegetable box	1
58	0060821346	drawer assembly	1
59	0060818292	vegetable container	1
60	0060818319	vegetable box shelf	1
61	00606050061	switch door	2
62	0060214565	Refrigerator shelf I	3
63	0060600097	Screw	1
64	0060214966	tanker cover	1
65	0060819042	cold water jug assembly	1
66	00609380509	Foot Adjustable	1
67	0060600251	Screw	3
68	0060818825A	fridge bottom hinge,right	1
69	0060214964	Bottom hinge stopper	1
70	00608020034	Center girder screw	1
71	0060500124	sponge pad	1
72	00602160263	deodorization box fixing cover	1
73	0060600097	Screw	1
74	0060204651	Cover Sensor	1
75	0060215432	dryer fix slip	1
76	0060214630	Refrigerator top lampshade	1
77	0064000610	bulb(25W Blue)	1
78	0060600097	Screw	2
79	0060818127	refrigerator wind passage cover assembly	1
80	0060214734	front foamed of refrigerator wind passage	1
81	0060818126	refrigerator wind passage assembly	1
82	00609340017	Damper Air	1
83	0060161090	Fridge top hinge	1
84	0060600251	Screw	4
85	0060215505	fridge top hinge box right	1
86	0060600097	Screw	1
87	0060600097	Screw	1
88	0060215504	freezer top hinge box	1
89	0060600251	Screw	4
90	0060161089	Freezer top hinge	1
91	0060214964	Bottom hinge stopper	1
92	0060818824A	left bottom hinge assembly	1



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Item	Part Code	Description	Qty
93	00609380509	Foot Adjustable	1
94	00608020034	Center girder screw	1
95	0060600251	Screw	3
96	0060818729	defrost waterspout assembly	1
97	0060215938B	down decorating strip assembly	1
98	0060801032	Screw	1
99	00609380551	Top Drawer Left Slide Way Assembly	1
100	0060600097	Screw	8
101	00609380552	Top Drawer Right Slide Way Assembly	1
102	00609380553	Bottom Drawer Left Slide Way Assembly	1
103	00609380554	Bottom Drawer Right Slide Way Assembly	1
104	0060818590	Bottom Drawer Assembly	1
105	0060818589	Freezer drawer II	1
106	0060818005	Freezer shelf assembly I	1
107	0060818006	Freezer shelf assembly II	2
108	0060818587	bottom freezer air tower assembly	1
109	0060214369	freezer lampshade cover	1
110	0064000607	bulb(40W Blue)	1
111	0060214368	Freezer lampshade	1
112	00608010087	Fixing Piece	2
113	0060161498	anti-heat and glisten patch	1
114	00604050121	Soft Gasket	2
115	00602160304	screw cover	2
116	0064098047	Self-screw	2
117	0060818586	top freezer air passage board assembly	1
118	0060818585	freezer air passage board assembly	1
119	0060215323	evaporator fix foam	2
120	0060703456	evaporator	1
121	0064001016	heater	1
122	0060207848	Blade Fan Fc	1
123	0064082811	Screw	2
124	0060207845	freezer fan motor cover	1
125	0060301218	Grommet Condenser Fan	1
126	0064000459	freeze fan	1
127	0060215338	Mount Fan Rear	1
128	0060214364	freezer fan motor bracket	1
129	0064000891J	control PCB	1
130	0060206822	control box	1
131	0060600097	Screw	4
132	0060400387	power cable assembly	1
133	0060801032	Screw	6
134	0060109707	compressor cover	1
135	0060214385	fan motor cover	1
136	0060215338	Mount Fan Rear	1
137	0064000460	cooling fan	1
138	0060301218	Grommet Condenser Fan	1
139	0060214382	cooling fan bracket	1
140	0060208240	cooling fan vane	1



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Item	Part Code	Description	Qty
141	0060702951	Condenser assembly	1
142	0060214381	Water Tray	1
143	00601480004	pivot	2
144	0060801032	Screw	4
145	0060213173	roller	2
146	0060702848	connection tube for suction	1
147	0060210199A	Grommet Compressor Mounting	4
148	0060145577	Bushing Copper	4
149	0060803303	Bolt Compressor	4
150	0060732592	compressor,EGYS100HLP (R134a)	1
151	0060106659	Injection Tube	1
152	00606020090	Power Panel	1
153	0060703265A	Dryer Filter	1
154	0060801032	Screw	7
155	0060215014	Strip Clamping Long	1
156	0060215015	seal strip II	1
157	0060818345	compressor bracket assembly	1
158	0064082808	Screw	2
159	0060161557	ice maker pipe fixup board	1
160	0060214635	Elbow of enter water pipe	1
161	0064000967	enter water pipe of ice maker assembly	1
162	0060205753	water pipe fixup nip	5
163	0060801032	Screw	5
164	0060205757	enter water pipe	1
165	0060214899	Jug Water Inlet Sleeve	1
166	0060212618	ice box slideway	1
167	0060600097	Screw	4
168	0060212618	ice box slideway	1
169	0060818598A	Ice box	1
170	0060801032	Screw	1
171	0060806084	Water Valve	1
172	0060400035	Harness Inlet Valve	1
173	0060205614	Bracket Auger Motor	4
174	0060600097	Screw	8
175	0060600097	Screw	4
176	0060600077	Drive Auger Motor	1
177	0060600078	Locknut Auger Drive	1
178	0060214386	ice-crushed box	1
179	0064000955	ice box motor	1
180	0060205637	slide seat	1
181	0060205638	slide block	1
182	0060600075	spring column pin	1
183	0060205640	connecting gulide	1
184	0060205639	connecting cover	1
185	0060600074	compressed spring	1
186	0060600076	spring column pin	1
187	0060300257	CLIMINATING NOISE FOAM BLOCK	1
188	0060806081	electromagnetism valve	1



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Item	Part Code	Description	Qty
189	0060204650	ice box	1
190	0060600097	Screw	1
191	0060219237	Arm Bail	1
192	0064001224	Icemaker Assy	1
193	0060600097	Screw	4
194	0060205021	Nut Fixing Ice Box	2
195	0060214376	ice-maker supporter	1
196	0060214377	ice store box	1
197	0060300270	ICE BOX SEAL RING	1
198	0060205623	Cover Push Shaft	1
199	0060161361	ice push screw	1
200	0060600067	Spring Crusher	1
201	0060103727	Bracket Dial Pole	1
202	0064082811	Screw	1
203	0060103725	Pad Link Arm	1
204	0060161948	Dial pole of push tongue	1
205	0060205605	Wheel Link Arm	1
206	0060802009	Screw	2
207	0060161303	ice-crushed clapboard	1
208	0060103724	Plate Cutter	1
209	0060205607	Bush Cutter Plate	1
210	0060103721	Plate Cutter Short	1
211	0060205609	Spacer Cutter Plate	1
212	0060205608	Washer Cutter Plate	1
213	0060103723	Plate Cutter Medium	1
214	0060205607	Bush Cutter Plate	1
215	0060103720	Plate Cutter 90 Degree	1
216	0060205608	Washer Cutter Plate	1
217	0060600082	Pin Spring Column	1
218	0060103722	Plate Cutter	1
219	0060205604	Cap Link Arm Screw	1
220	0060600072	Spring Crusher Door Flap	1
221	0060205606	Flap Door Ice Crusher	1
222	0060205616	Housing Ice Crusher	1
223	0060600083	Pin Door Flap Ice Crusher	1
224	0060802009	Screw	3
225	0060600069	Washer Ice Crusher	1
226	0060600071	Circlip Ice Crusher	1
227	0060214378A	front lid of ice box	1



CAUTION
READ THIS MANUAL CAREFULLY TO
DIAGNOSE TROUBLE CORRECTLY
BEFORE OFFERING SERVICE.

Refrigerator

SERVICE MANUAL



MODEL : CAFF19SI

Features:

1. Spacecraft insulation technology
2. Digital temperature with VEDA display
3. full-out fridge tray
4. Ice and water dispenser
5. Super freezing
6. Direct current variable-frequency
7. Direct current variable-frequency blower fan
8. Deluxe bar , ice machine
9. Cold drink outside access design
10. Deluxe deep bottle holder
11. Detachable door seal

1. This manual is NOT intended as a comprehensive repair/maintenance guide to the appliances.
2. it should ONLY be used by suitably qualified persons having the technical competence, applicable product knowledge and suitable tools and test equipment
3. Servicing of electrical appliances must be undertaken with the appliance disconnected (unplugged) from the electrical supply
4. Servicing must be preceded by Earth Continuity and Insulation Resistance checks.
5. Personal safety precautions MUST be taken to protect against accidents caused by sharp edges on metal and plastic parts
6. After servicing the appliance must be rechecked for Electrical Safety.
7. Checks must be made for leaks from seals, gaskets and pipe work, and rectification carried out where necessary
8. Whilst the company has endeavoured to ensure the accuracy of the data within this publication, they cannot hold themselves responsible for any inconvenience or loss occasioned by any error within.

CAFF19SI REFRIGERATOR

CONTENTS

1	INTRODUCTION
2	SPECIFICATION
3	DOOR ADJUSTMENT
4	CONTROL PANEL FUNCTIONS
5	TEST PROCEDURES
6	SELF DIAGNOSIS
7	WIRING DIAGRAM
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9	PARTS LIST/DIAGRAM
10	USER GUIDE
11	PRODUCT TECHNICAL SUPPORT CONTACTS

CAFF19SI FRIDGE FREEZER

Introduction

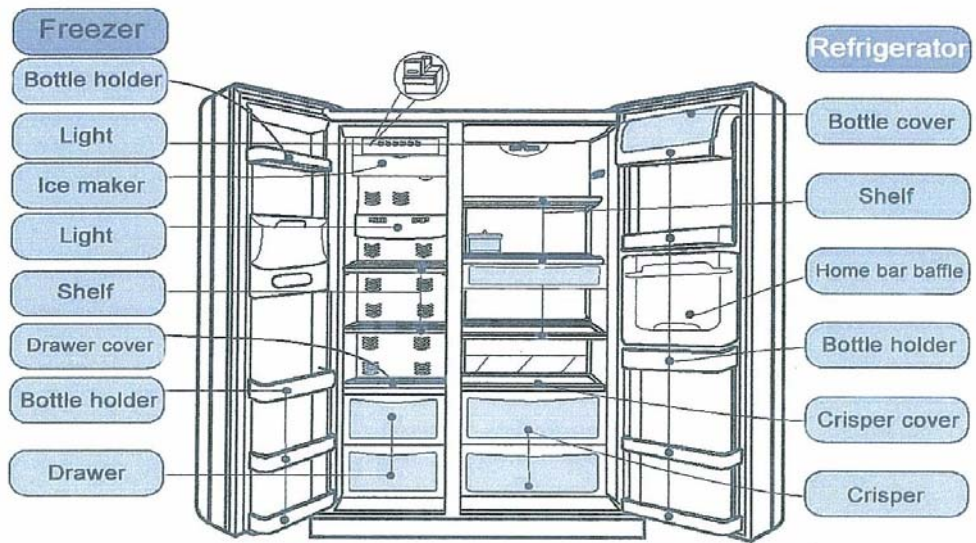
The Caple CAFF19SI is an American side by side refrigerator. The system uses a cold blown air system. The system has only one evaporator situated in the freezer. A fan distributes the cold air around the freezer. In the top of the freezer is a damper that opens into the fridge cabinet. The cold air is blown in to the fridge cabinet by the freezer fan. When the fridge temperature is reached the damper closes, stopping the cold air entering the fridge.

FREEZER STORAGE

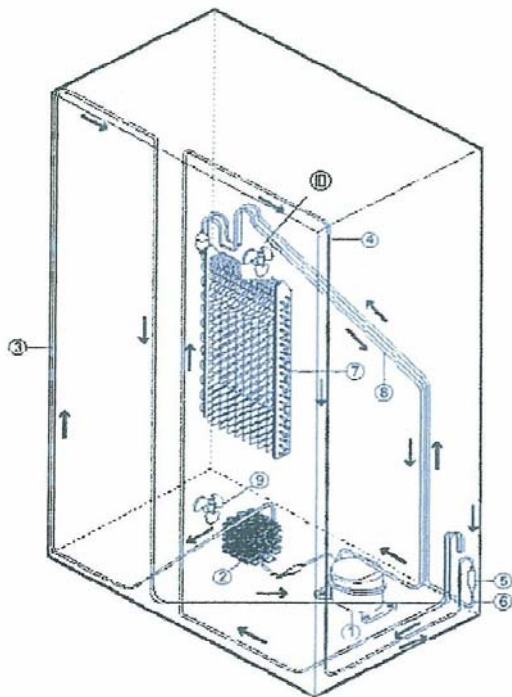
- 1 ICE MAKER
- 3 GLASS SHELVES
- 2 STORAGE DRAWERS
- 4 DOOR STORAGE SHELVES

FRIDGE STORAGE

- 4 GLASS SHELVES
- 2 SALAD DRAWERS
- 6 DOOR STORAGE SHELVES
- 1 WATER TANK



System flow scenograph



- ① Compressor
- ② Condenser
- ③ Hot connector pipe for freezer
- ④ Hot connector pipe for fridge
- ⑤ Drier filter
- ⑥ Capillary tube
- ⑦ Evaporator
- ⑧ Suction pipe
- ⑨ Compressor DC fan motor
- ⑩ Freezer DC fan motor

MODEL CAFF19SI



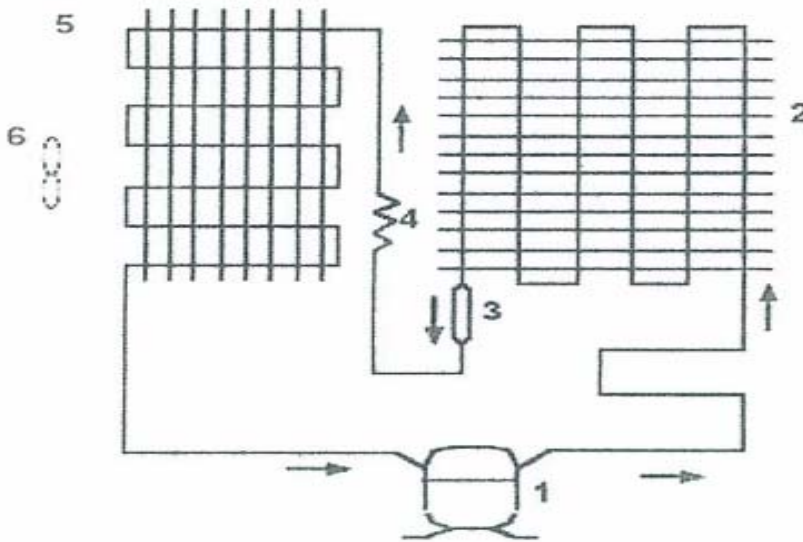
PART 1. Specifications

Model	CAFF19SI
Cavity Supply (V/Hz)	220~240/50
Power Consumption (Kw.h/year)	537
Unit Dimensions WDH (mm X mm X mm)	770 * 890 * 1768
Unit Weight (Kg)	138
Box Dimensions WDH (mm X mm X mm)	960 * 770* 1894
Box Weight (Kg)	156
Container Quantity (40' Hc)	36

Specifications are subject to change without prior notification.

PART 2. Refrigeration Principle

2.1 Schematic Diagram of Refrigerating Principle



- 1 Compressor
- 2 Condenser
- 3 Dry Filter
- 4 Capillary Tube
- 5 Evaporator
- 6 Air Fan

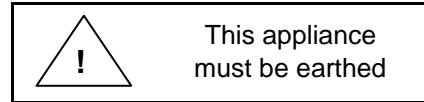
2.2 Brief Description of Refrigerating Principle

For the forced air cooling single-system refrigerator, there is only a finned evaporator mounted generally at the rear of its freezer compartment. Refrigeration of both its refrigerator compartment and freezer compartment is achieved by this evaporator and cooled air is sent to its refrigerator and freezer compartments via air ducts. The temperature inside its freezer compartment is regulated with the freezer thermostat, whereas the temperature in its refrigerator compartment is controlled by regulating the throttle, or alternatively, using a refrigerator to control the start and stop of compressor, and matching the evaporator to control the freezer temperature.

Positioning Your Appliance

Choosing the right location

- This appliance should be installed in a room, which is dry and well ventilated.
- In order to ensure adequate ventilation, the appliance should be at least 1,5cm clear on all sides from cabinetry, and any units placed above the appliance must be clear by 1.5cm - allowing adequate ventilation for the appliance. see clearance diagram
- if located close to a corner adequate spacing must be left for door opening and removal of shelves. Refer to diagram
- The appliance should be 10cm at least from any electric or gas cooker and 30cm from any coal or oil stove. If it is not possible, ensure that appropriate insulation is used.
- Avoid exposing the appliance to direct sunlight, and sources of heat (radiators, heaters, cookers etc)
- if the appliance is situated in a cold environment (shed, out house, garage etc.) it will affect its performance. You may find that the performance of the appliance is not consistent and this may damage foods. Please ensure that the ambient temperature does not drop below that specified by the climate class and that temperature are maintained as consistently as possible.



Connection to the electricity supply

- Connect the appliance to the electrical supply (220-240V ~ 50Hz) with the plug and lead, which are fitted. Connections to the mains supply should be in accordance with local regulations.
- NB! This appliance will operate within a range of 187 - 253 V. Operation outside this range may result in damage to the control panel, thermostat or compressor, unless a regulator with a capacity of 750W, or higher is installed.
- The appliance must be plugged into an earthed socket. Always make sure that the plug is accessible after the appliance has been positioned.



Positioning Your Appliance

Adjustable feet

Make sure that the appliance is on solid level flooring. If the refrigerator is placed on a plinth, flat, strong and fire resistant materials must be used. This appliance has front adjustable feet, which can be used to level the appliance, or adjust door alignment (see below).

Door Adjustment

The doors may require some alignment adjustment before you connect the appliance to the electricity supply. This can be done by making minor adjustments to the feet:

- If the freezer door height is lower than the refrigerator door, use a screwdriver in the slots of the front left hand adjustable foot, turning clockwise until the freezer door height is raised in line with the fridge door.
- If the freezer door is higher, use a screwdriver in the slots of the front right hand adjustable foot, turning clockwise until the fridge door height has changed in line with the freezer door.

DISPLAY PANEL

Once the fridge freezer has reached the preset temperatures the compressor will switch off. 30 minutes later the display panel will darken, This is an energy saving measure and is completely normal. This may cause the customer to contact the customer care service line to report the fridge freezer has, or keeps switching off. The customer should be assured that this is normal and not a malfunction.

To light the display panel push any of the buttons on the display or open the doors.



CONTROL PANEL

The factory preset for the freezer is -18 and for the fridge +3.

The control panel has four control buttons. These are (from left to right) FAST FREEZE CONTROL BUTTON, FREEZER TEMPERATURE CONTROL, REFRIGERATOR TEMPERATURE CONTROL BUTTON, ICE/WATER OPTION BUTTON.

The temperature is displayed as coloured segments. Each segment is a temperature setting 1-5. The temperatures are as follows:

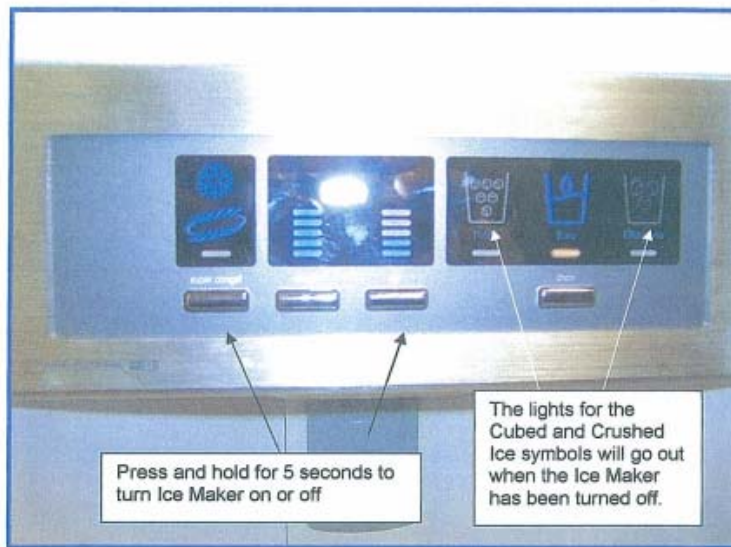
FREEZER TEMPERATURES

1	=	-15
2	=	-17
3	=	-18
4	=	-20
5	=	-22

FRIDGE TEMPERATURES

1	=	+7
2	=	+6
3	=	+5
4	=	+4
5	=	+3

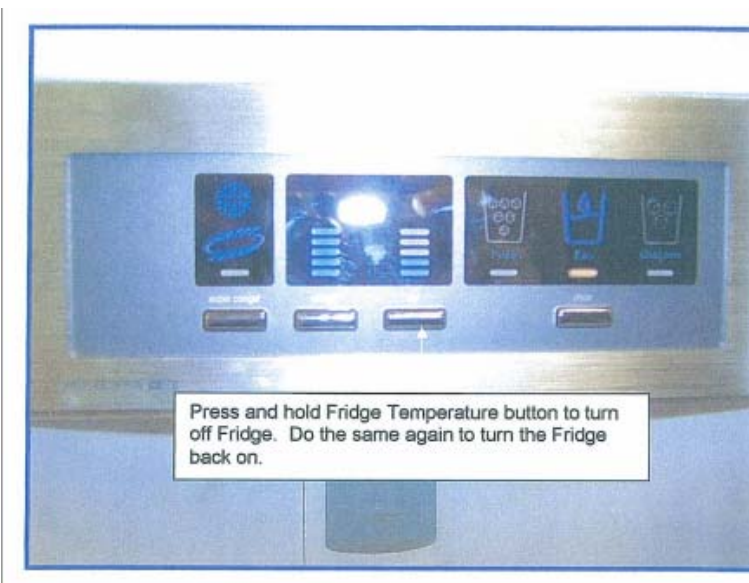
Procedure to turn off Ice Maker



- Press and hold Fast Freeze and Fridge Temperature Buttons for 5 seconds.
- This will turn off the ice maker and the lights for the Crushed Ice and Cubed Ice icons will go out.

(This information is very important as it is not in the instruction manual)

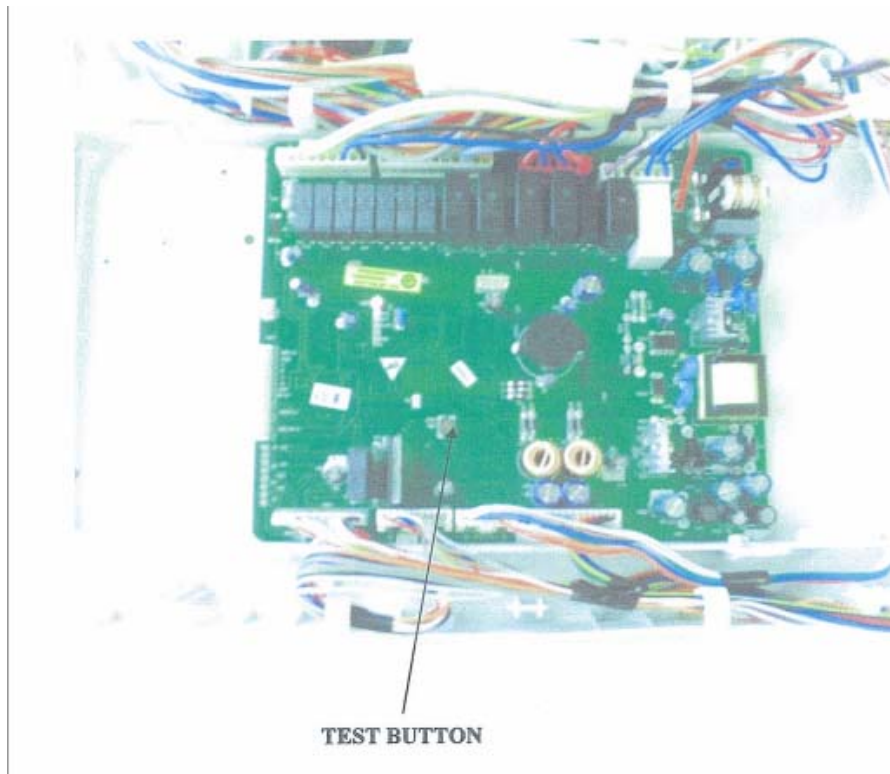
Procedure to turn off Fridge



Press and hold Fridge Temperature button to turn off fridge

TEST PROCEDURE

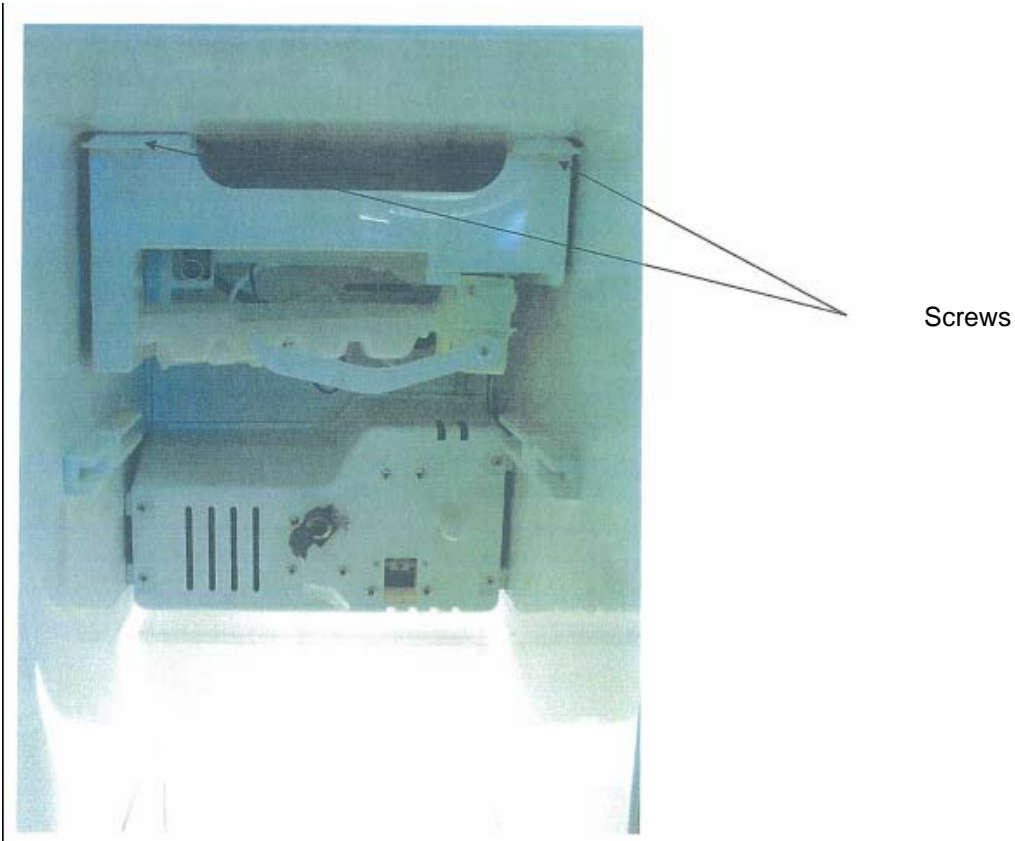
REMOVE THE FRIDGE/FREEZER TOP PANEL, THEN OPEN THE PCB COVER
ON THE PCB THERE IS A TEST BUTTON (SEE DIAGRAM)



1. PRESS ONCE FOR FORCED FAN TEST . THE COMPRESSOR/FANS WILL OPERATE AND THEY SHOULD BE HEARD RUNNING.
2. PRESS TWICE FOR FORCED DEFROST TEST.
3. PRESS AND HOLD THE BUTTON UNTIL YOU HEAR A CONTINUOUS BEEP. THE ICE MAKER WILL CARRY OUT A FULL FUNCTION TEST AND WILL REFILL WITH WATER.

ICE MAKER REMOVAL

REMOVE THE TWO SCREWS (AS SHOWN IN THE DIAGRAM BELOW).
PULL THE ICE MAKER FORWARD AND REMOVE THE PLUG CONNECTION IN THE
FREEZER ROOF. THE ICE MAKER CAN THEN BE REMOVED.



ICE MAKER TEST PROCEDURE

REMOVE THE FRIDGE/FREEZER TOP PANEL AND OPEN THE PCB COVER.
ON THE PCB THERE IS A TEST BUTTON - PRESS AND HOLD THE BUTTON FOR
5/8 SECONDS, THE ICE MAKER WILL THEN OPERATE A FULL CYCLE AND REFILL
WITH WATER.

FRIDGE AIR DAMPER OPERATION TEST

The air damper is mounted at the top/back of the fridge compartment. To check the damper is working - check that there is air flowing from the vents in the front of the damper. If the fridge compartment is switched off via the control panel the damper should close and the airflow cease. When the fridge compartment is switched back on the damper will reopen and air flow resume.

DAMPER REMOVAL

On the bottom of the damper assembly there is a light cover. Remove the light cover by removing the two screws fixed at the front top edge. When the cover is pulled down and to the right the assembly will drop down. Unplug the connectors and remove the assembly.

FRIDGE SENSOR REMOVAL

The top sensor is mounted in the damper assembly housing. Remove as above.

The bottom sensor is mounted two thirds of the way down the right hand side of the fridge wall. To remove the sensor unclip the cover and pull the sensor forward. Cut the wires close to the sensor head. Join the new sensor to the old lead by soldering and protecting with heat shrink. Refit the sensor and cover.

The fridge compartment has a damper assembly that controls the cold air that is blown into the fridge.

Two sensors top and bottom control the temperature.

If the temperature rises by four degrees between the sensors cold air is blown into the fridge compartment



TOP SENSOR

DAMPER

BOTTOM SENSOR

3.3 Control

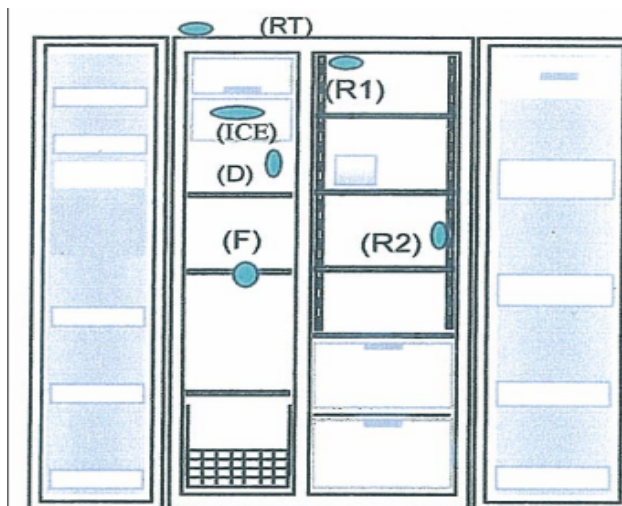
3.3.1 Temperature Control

(1) Temperature control of freezer compartment/refrigerator compartment

Item	Compressor ON or air damper ON	Compressor OFF or air damper OFF	Sensor
Freezer Compartment	NOTCH +1.5 °C	NOTCH -1.5 °C	F SNR
Refrigerator Compartment	NOTCH +1.5 °C	NOTCH -1.5 °C	R1 SNR

(2) Name and position of each sensor

Name	Code	Position
Freezer sensor	F SNR	middle of freezer compartment
Refrigerator sensor 1	R1 SNR	Control box (refrigerator air damper assembly)
Refrigerator sensor 2	R2 SNR	Right wall of refrigerator compartment
RT SNR	RT SNR	Below freezer hinge box
Ice-making sensor	ICE SNR	Below ice making tray
Defrosting sensor	D SNR	Above freezer evaporator



3.3.2 Compressor Control

(1) ON/OFF conditions of compressor

ON	OFF
1. Powered on for the first time or after defrosting (F SNR is higher than shutdown point).	1. After defrosting, F SNR is not higher than shutdown point.
2. F SNR reaches start-up point	2. F SNR reaches shutdown point
3. In fast freeze state.	3. In defrosting state
4. Refrigerator load in correspondence with condition 2	4. Refrigerator load not in correspondence with condition 2
5. TEST MODE 1 (PULL DOWN).	5. TEST MODE 2 (forced defrosting)

(2) The compressor will be shutdown during operation if one of the following appears:

During the ice-making, if ice is detected to be full, water supply is stopped.

*Water inlet control

(1) Check whether the ice-making tray is levelled after ice-releasing control

(in normal TEST state) finishes; if it is levelled, the water valve is activated to control inlet water.

(2) Water inlet is controlled by ice valve relay, which is on the main control panel

(3) The intake control volume is controlled by DIP S/W

< intake volume >

Serial number				Time of water inlet	Remark
	S1	S2	S3		
1	OFF	OFF	OFF	6 seconds	Depending on different water pressures, the water intake time can be changed by adjusting DIP S/W. The intake volume in the left table is 80-120cc.
2	ON	OFF	OFF	3.5 seconds	
3	OFF	ON	OFF	4.0 seconds	
4	ON	ON	OFF	5.0 seconds	
5	OFF	OFF	ON	5.5 seconds	
6	ON	OFF	ON	6.0 seconds	
7	OFF	ON	ON	7.0 seconds	
8	ON	ON	ON	8 seconds	

(4) The intake volume can be adjusted when the refrigerator is ON or OFF; under the intake state, the previous setting of intake time will be performed and the new intake time will be carried out next time.

(5) If both drinking-water valve and inlet valve of ice-maker need water intake drinking water should be prior to icemaker. For water-in of icemaker and water-out of drinking water dispenser, the water intake process will occur simultaneously.

3.12 Functional tests

MODE	ACTION	DESCRIPTION	REMARK
TEST 1	Enter by pressing TEST key one time (cooling capacity MODE)	(1) COMP ON (2) F FAN (high speed) ON (3) C FAN (low speed) ON (4) DEF/BAR HTR OFF (5)air dampers are opened	With TEST1, TEST1 mode is maintained until manually ended
TEST 2	Enter by pressing TEST key once more in TEST1 MODE (forced defrosting MODE)	(1) COMP OFF (2) F/C FAN OFF (3) D HTR ON (4) air dampers are closed	Press exit key to force defrosting to operate
Normal reset	reset by pressing TEST key for the 3 rd time	Reset of refrigerator functions (the compressor will start 7 minutes later)	

3.13 Fault diagnostics

3.13.1 Description and display

NO	Item	Indication		Description	Remark
		F SET	R SET		
1	Normal	Normal setting indication of preset temperature		None	Keys are in Normal
2	F (LD) SNR is defective	Freezer setting 1 glitters	Normal	F SNR short circuit or broken circuit	Check the connection of each sensor

FREEZER DISPLAY FAULT CODES

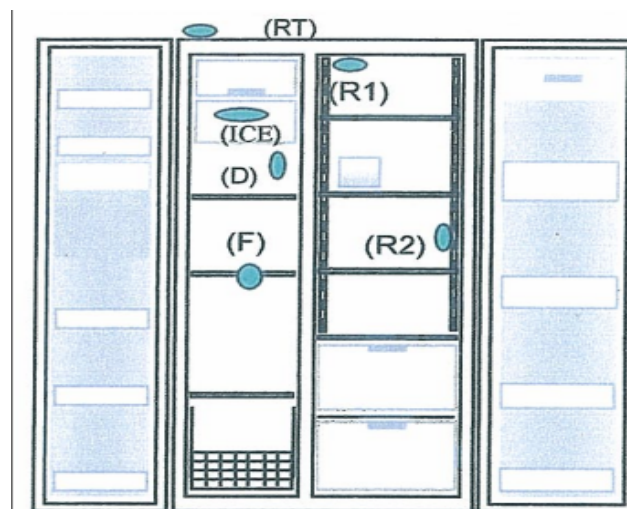
FLASHING SEGMENTS

- 1 F (SNR) FAULTY
- 2 D (SNR) FAULTY
- 3 ICE TRAY SENSOR FAULTY
- 4 CONTROL PANEL FAULTY

FRIDGE DISPLAY FAULT CODES

- 1 RT SENSOR FAULTY
- 2 R1 SENSOR FAULTY
- 3 R2 SENSOR FAULTY
- 4 DEFROST SYSTEM FAULTY

Refer to diagram for sensor positions



FAULT DIAGNOSIS

INSIDE THE FRIDGE CABINET IS FREEZING

- Check the operation of the fridge damper. See the DAMPER TEST in the manual.
- If the damper fails to operate check the power supply. If the power supply is present change the damper assembly. If there is no power supply change the PCB.

SALAD TRAY/WATER TANK AT THE BOTTOM OF THE FRIDGE ARE FREEZING

- Check the operation of the fridge damper. See the DAMPER TEST in the manual.
- If the damper fails to operate check the power supply. If the power supply is present change the damper assembly. If there is no power supply change the PCB.
- Check the freezer fan is operating correctly by carrying out a forced fan test as per the manual.

NOT MAKING ICE

- Carry out the ice maker function test as per manual. If the ice maker doesn't operate check the power supply by removing the connector and testing with a volts meter. If the power supply is present change the ice maker. If there is no power to the ice maker then change the PCB.

ICE CUBES STICKING TOGETHER IN THE ICE STORAGE BOX

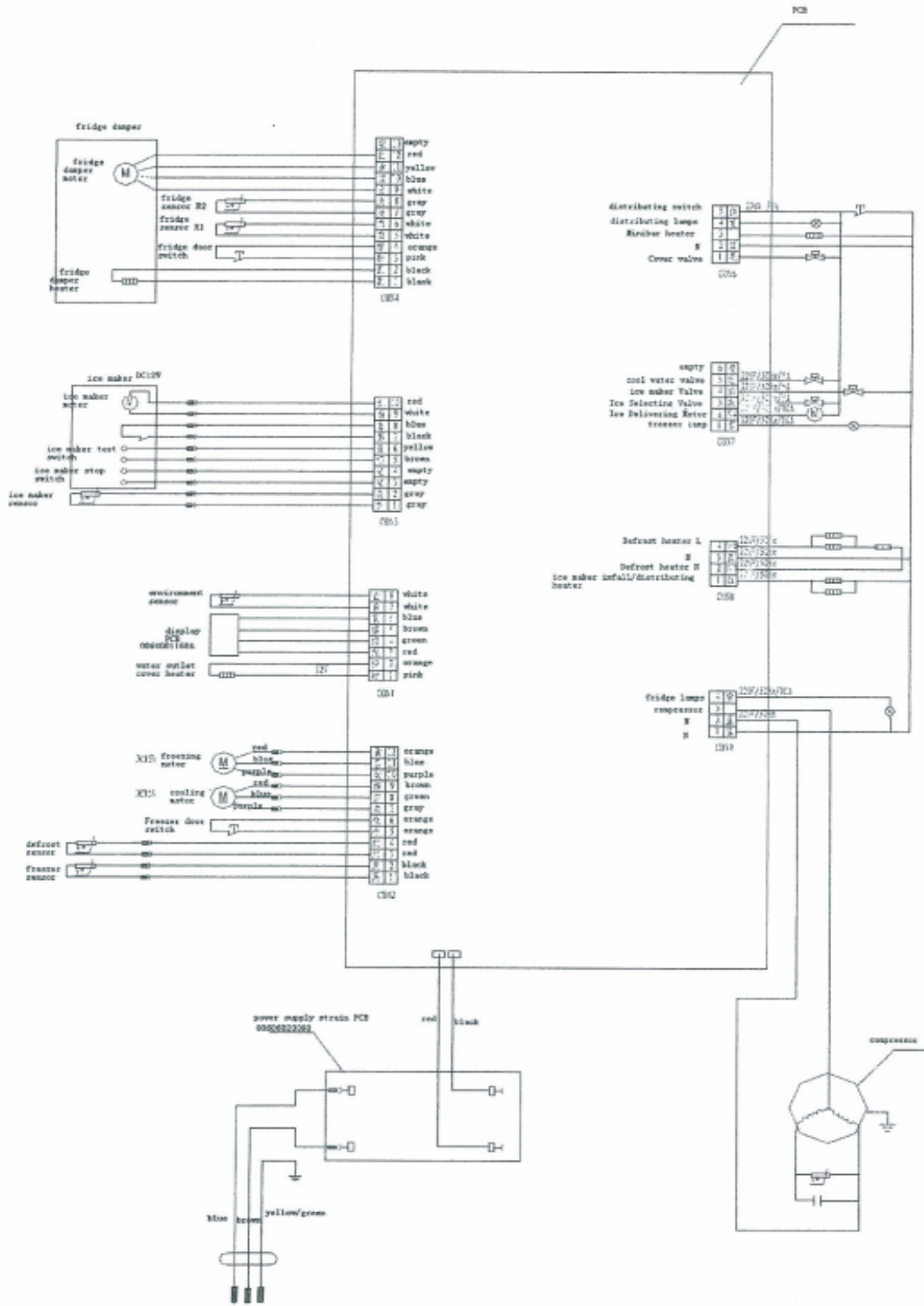
- Check the freezer door seal
- Check the ice chute flap is sealing
- Check with the customer that they are not experiencing intermittent power failures as this will cause ice problems
- Check the water level in the ice tray. If it is overflowing adjust the water timer as per manual.

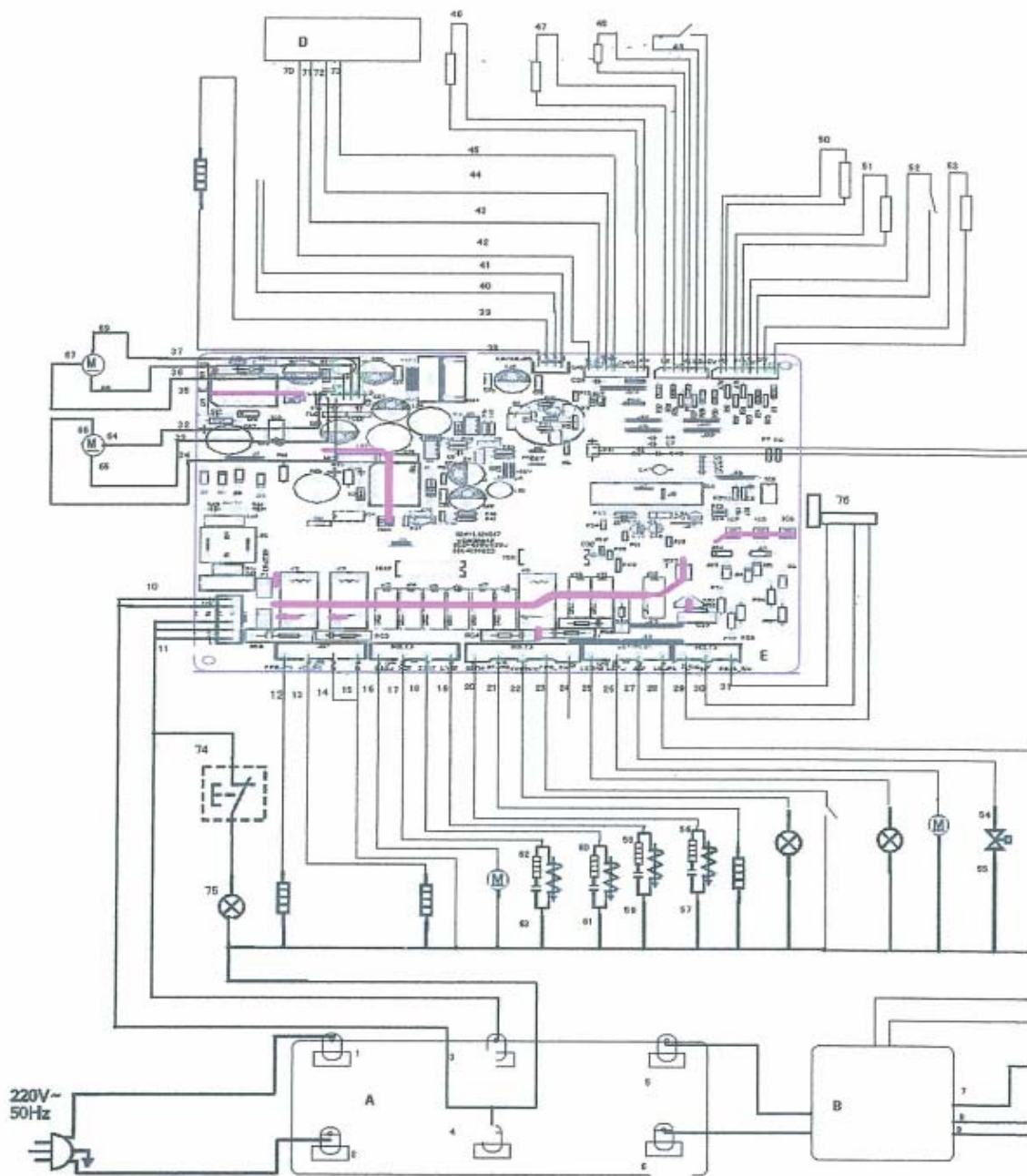
ALARM FAULT

- If the alarm sound once intermittently this means there is a fault with the plug connector of the ice maker. Clean and dry the connector and re-seal with silicon.
- If the alarm sound as three short beeps. This means that there is a door or light problem. Check door adjustment. If the problem persist check the door light switch.

SCRAPING NOISE FROM THE FREEZER

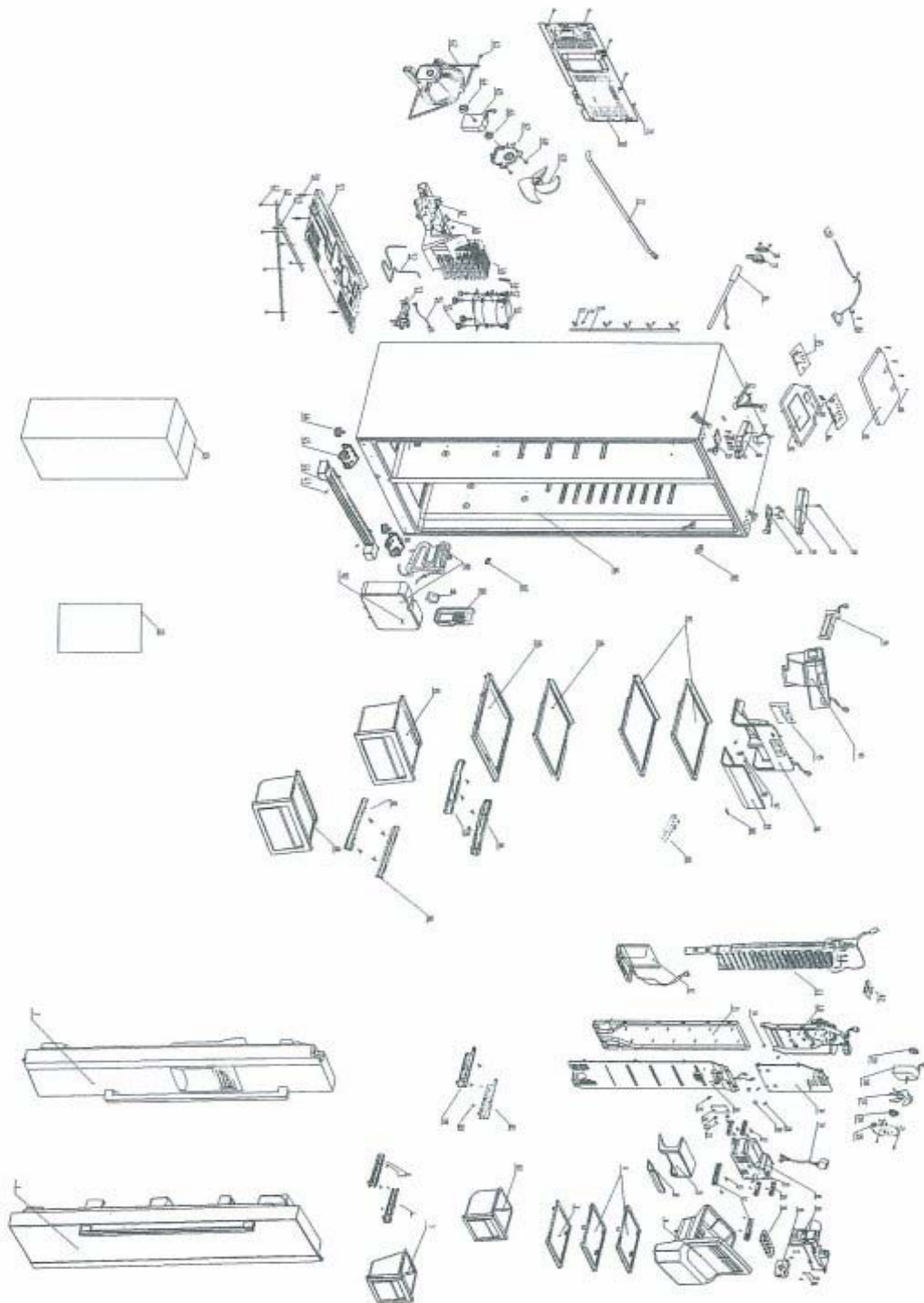
- The noise could be the ice tray catching on the water fill pipe. Adjust the water fill pipe or the ice maker unit.



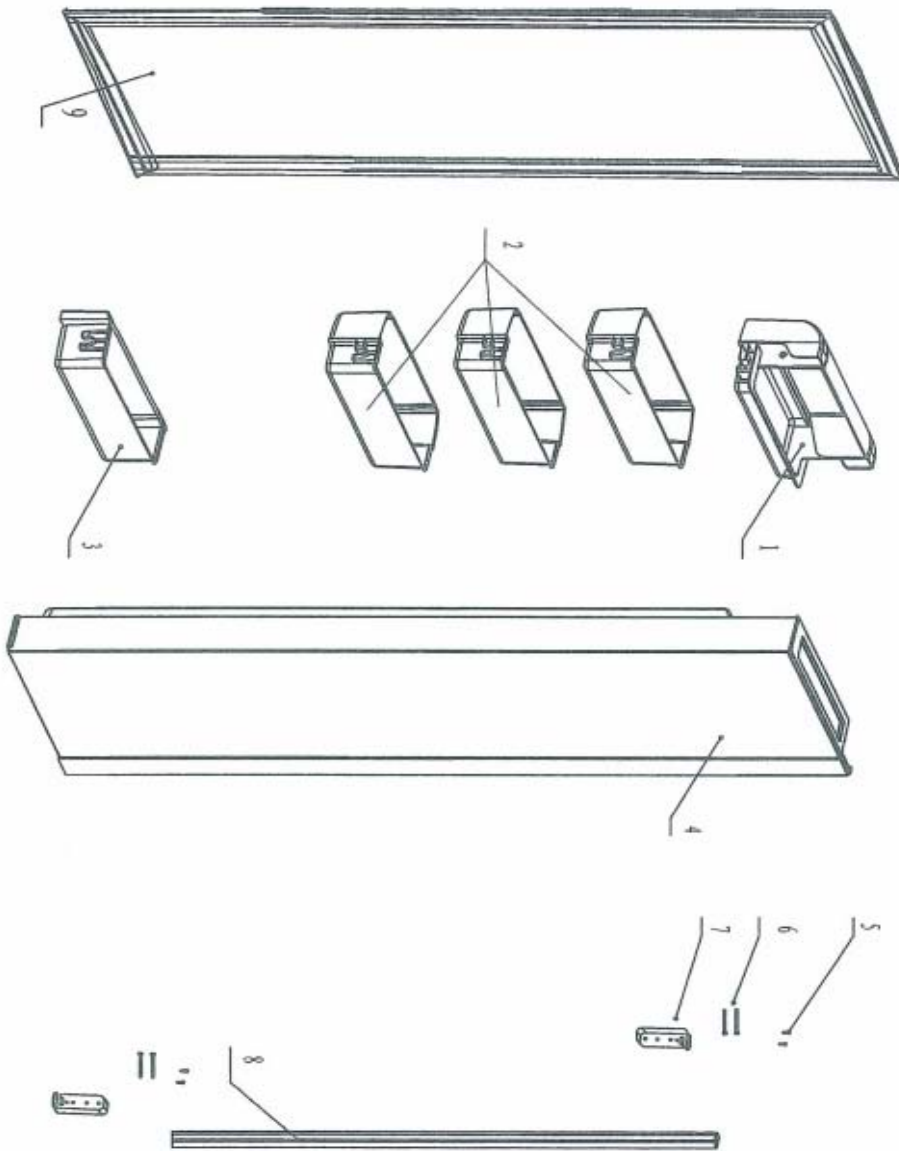


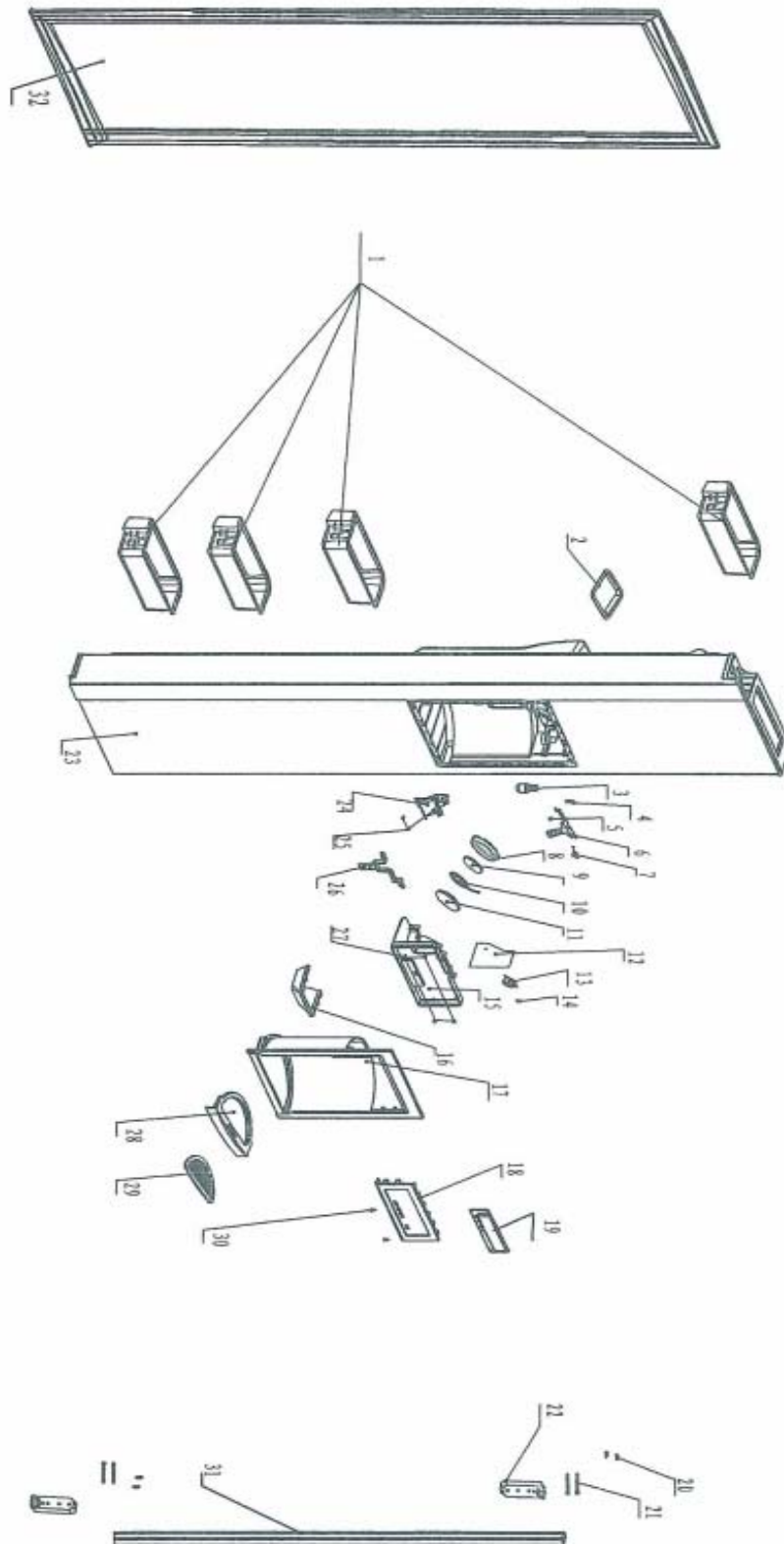
Item	Description	Cable's colour
A	Power supply strain PCB	64000595
B	Frequency conversion PCB	64000594
C	Compressor	/
D	Display PCB	64000253
E	Main PCB	64000823
1	In power L	Brown
2	In power N	Blue
3	Out power L	Brown
4	Out power N	Blue
5	Frequency conversion PCB input (negative)	Black
6	Frequency conversion PCB output (positive)	Red
7	Frequency conversion PCB output	/
8	Frequency conversion PCB output	/
9	Frequency conversion PCB output	/
10	PCB IN power N	Brown
11	PCB IN power L	Blue
12	Distributing heater L	Black
13	Defrost heater L	Blue/White
14	Distributing heater N	Red/White
15	Defrost heater N	Red
16	Ice Selecting Valve	Blue
17	Ice Selecting Valve	Red
18	Ice maker valve	Purple
19	Cool water valve	Orange
20	Cover valve	Red
21	Minibar heater	Brown
22	Distributing lamps	Yellow
23	Distributing switch	White
24		Purple
25	Fridge lamps	Brown
26	Fridge wind motor	Yellow
27	Bistable valve	White
28	Fridge cold compensation heater	Purple
29	Ice maker power input L	Brown
30	Ice maker power input N	Blue
31	Ice maker water inlet signal	White
32	Cooling motor signal line	Purple
33	Cooling motor power output	Black
34	Cooling motor power input	Red
35	Freezing motor power line	Purple
36	Freezing motor power output	Black
37	Freezing motor power input	Red
38	Water outlet cover heater (negative)	Blue
39	Water outlet cover heater (positive)	Yellow
40	Standby	White
41	Standby	White

Item	Description	Cable's colour
42	Display PCB voltage output	Red/White
43	Display PCB voltage input	Yellow
44	Display PCB signal output	Orange
45	Display PCB signal feedback	Red
46	Environment sensor	Double White
47	Freezer sensor	Double White
48	Defrost sensor	Double Orange
49	Freezer door switch signal	Double Red
50	Fridge sensor	Double Grey
51	Fridge sensor	Double White
52	Fridge door sensor	Double Orange
53	Fridge evaporator sensor	Double Green
54	Small end of bistable valve	Brown
55	Big end of bistable valve	Blue
56	End of valve in distributing cover	Red
57	End of valve in distributing cover	Blue
58	Big end of cooling water valve	Black/White
59	Small end of cooling water valve	Black/Orange
60	End of ice maker water valve	Black/Black
61	End of ice maker water valve	Black/Blue
62	Ice selecting valve	Black/White
63	Ice selecting valve	Black/Blue
64	Cooling motor signal line (standby)	Purple
65	Cooling motor power input (negative)	Black
66	Cooling motor power input (positive)	Red
67	Freeing motor signal line	Purple
68	Freezing motor power input (negative)	Black
69	Freezing motor power input (positive)	Red
70	Display PCB voltage input (negative)	Red/White
71	Display PCB voltage input (positive)	Yellow
72	Display PCB signal input	Orange
73	Display PCB signal output	Red
74	Freezer door switch	
75	Freezer lamp	
76	Ice maker	



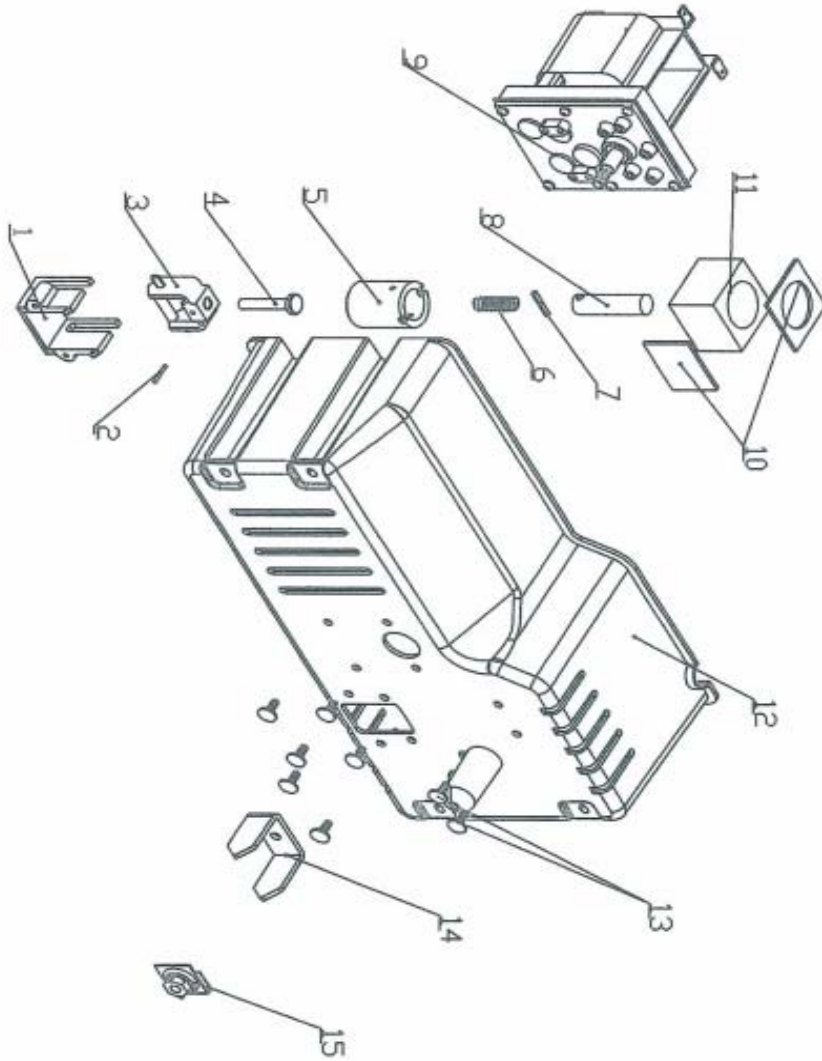
fridge foamed door assembly

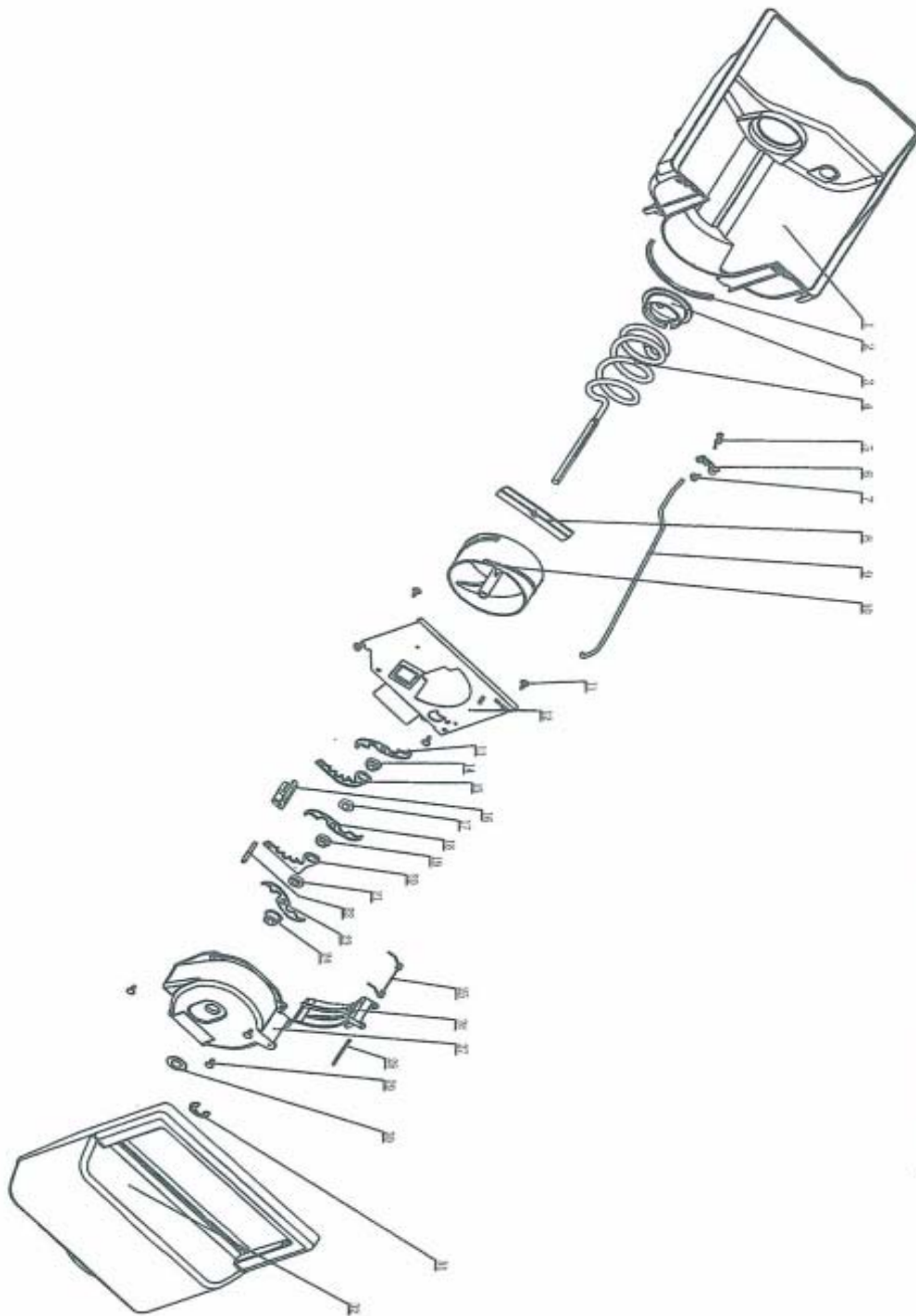




freezer foaming door assembly

ice-crushed motor box assembly







ice-crushed box assembly


**REFRIGERATOR****CAFF19SI****GENERAL ASSEMBLY**

No. in the exploded	Spare parts number	Description	Qty	Failure Rate
1	0060821734	fridge foamed door assembly	1	0.05%
2	0060821735	freezer foaming door assembly	1	0.00%
3	0060821346	lower vegetable box assembly	1	0.00%
4	0060219817	right slide way of lower vegetable box	1	0.00%
5	0060600097	screw	4	0.00%
6	0060219580	left slide way of lower vegetable box	1	0.01%
7	0060818005	freezer drawer cover board	1	0.00%
8	0060818006	freezer shelf	2	0.00%
9	0060818598	ice-crushed box assembly	1	0.01%
10	0060214369	freezer lampshade cover	1	0.00%
11	0060214368	freezer lampshade	1	0.00%
12	0060212618	ice-crushed box slide way	2	0.00%
13	0060600097	screw	4	0.00%
14	0060204650	ice box	1	0.00%
15	0064000955	ice box motor	1	0.00%
16	0060600097	screw	4	0.00%
17	0060205021	fixing nut	4	0.00%
18	0060214376	ice-maker supporter	1	0.00%
19	0060214386	ice-crushed motor box	1	0.00%
20	0060205614	ice-crushed motor box right slide way	4	0.00%
21	0060600097	screw	4	0.00%
22	00608010087	screw	2	0.00%
23	00604050121	anti-heat and glisten patch gasket	4	0.00%
24	0060161498	anti-heat and glisten patch	1	0.21%
25	00606040080	lamp	1	0.00%
26	0060818587	bottom freezer air tower assembly	1	0.00%
27	0060600097	screw	4	0.00%
28	00602160304	screw cover	2	0.00%
29	0064098047	screw	2	0.00%
30	0060401479	ice-crushed motor box cable	1	0.00%
31	0060818586	top freezer air tower assembly	1	0.00%
32	0060818729	defrost waterspout assembly	1	0.00%
33	0060818585	freezer air shutter assembly	1	0.00%
34	0064082811	screw	5	0.00%
35	0060207845	fan motor cover	1	0.00%
36	0060301218	damping rubber I	1	0.00%
37	0060207848	fan vane	1	0.00%
38	0064000459	DC fan motor	1	0.00%
39	0060215338	damping rubber 11	1	0.00%
40	0060818584	freezer motor assembly	1	0.00%
41	0060818624	evaporator assembly	1	0.00%
42	0060214973	motor cable cover	1	0.00%
43	0060801032	screw	1	0.00%
44	0060215938A	down decorating strip assembly	1	0.00%
45	0060818824A	left below hinge assembly	1	0.00%
46	00609380509	adjustable foot assembly	2	0.00%
47	0060801032	screw	7	0.00%
48	0060215014	seal strip I	1	0.00%

		REFRIGERATOR	CAFF19SI	
No. in the exploded	Spare parts number	Description	Qty	Failure Rate
49	0060215015	seal strip 11	1	0.00%
50	0060801032	screw	4	0.00%
51	0060818345	compressor bracket assembly	1	0.00%
52	0060703449	connection tube for exhaust	1	0.00%
53	0060806084	valve	1	0.00%
54	0060400035	cable of valve	1	0.00%
55	0060210199A	rubber grommet	4	0.00%
56	0060803303	compressor bolt	4	0.00%
57	0060732586	compressor	1	0.00%
58	0060700768	injection tube	1	0.00%
59	0060703455	condenser assembly	1	1.79%
60	0060801032	screw	4	0.00%
61	0060214381	water tray	1	0.00%
62	0060818623	cooling fan assembly	1	0.00%
63	0060801032	screw	1	0.00%
64	0060215338	damping rubber 11	1	0.00%
65	0064000460	DC fan motor	1	0.00%
66	0060301218	damping rubber I	1	0.00%
67	0060214385	fan motor cover	1	0.00%
68	0064082808	screw	2	0.00%
69	0060208240	fan vane	1	0.00%
70	0060109707	compressor cover	1	0.00%
71	0060801032	screw	6	0.00%
72	0060214899	tanker water inlet protect pipe	1	0.00%
73	0060205753	water pipe fix up nip	1	0.00%
74	0060801032	screw	1	0.00%
75	0060205757	water leader	1	0.00%
76	0064000967	enter water pipe of ice maker assembly	1	0.00%
77	0060214635	elbow of enter water pipe	1	0.00%
78	0060161557	ice maker pipe fix up board	1	0.00%
79	0060161089	freezer top hinge	1	0.00%
80	0060600251	screw	4	0.00%
81	0060214961B	freezer top hinge box	1	0.00%
82	0060818958B	main control box supporter	1	0.00%
83	0060600097	screw	3	0.00%
84	0064001169	control panel	1	0.00%
85	00606020090	filter	1	0.00%
86	00606110135	power cable	1	0.00%
87	00602111307	control panel box cover	1	0.03%
88	0060600097	screw	4	0.00%
89	0060600097	screw	2	0.00%
90	10060214959	fridge top hinge box	1	0.00%
91	0060600251	screw	4	0.00%
92	0060161090	fridge top hinge	1	0.00%
93	0060818126	refrigerator wind passage assembly	1	0.00%
94	00609340017	electric wind door	1	0.00%
95	0060214734	front foamed of refrigerator wind passage	1	0.00%
96	0060818127	refrigerator wind passage cover assembly	1	0.00%
97	00606040084	lamp	1	0.00%
98	0060600097	screw	2	0.00%

		REFRIGERATOR		CAFF19SI	
No. in the exploded	Spare parts number	Description	Qty	Failure Rate	
99	0060214630	refrigerator top lampshade	1	0.00%	
100	0060215432	dryer fix slip	1	0.01%	
101	0060207543	egg rack	1	0.00%	
102	00606050061	lamp switch	1	0.00%	
103	0060214565	fridge shelf	2	0.00%	
104	0060821344	foamed cabinet assembly	1	0.12%	
105	0060214565	fridge shelf	1	0.00%	
106	0060818319	vegetable container cover	1	0.00%	
107	0060214963	sensor cover assembly	1	0.00%	
108	0060214384	deodorization box	1	0.00%	
109	0060819042	cold water jug assembly	1	0.00%	
110	0060214735	foam block	1	0.00%	
111	0060818825A	fridge bottom hinge assembly	1	0.00%	
112	0060600097	screw	1	0.02%	
113	0060818589	top drawer assembly	1	0.00%	
114	0060818315	right slide way of lop drawer	1	0.00%	
115	0060818314	left slide way of top drawer	1	0.00%	
116	00609380554	right slide way of lower drawer	1	0.00%	
117	00609380553	left slide way of lower drawer	1	0.00%	
118	0060818590	lower drawer assembly	1	0.06%	
119	0060818314	left slide way of top vegetable box	1	0.00%	
120	0060600097	screw	1	0.00%	
121	0060818315	right slide way of top vegetable box	1	0.00%	
122	0060818292	top vegetable box assembly	1	0.00%	
123	0060512200	manual instruction	1	0.00%	
124	0060511924	packing	1	0.00%	
FRIDGE FOAMED DOOR ASSEMBLY					
No. in the exploded	Spare parts number	Description	Qty	Failure Rate	
1	0060818999	fridge top bottle seat assembly	1	0.02%	
2	0060818348	fridge centre bottle seat assembly	3	0.01%	
3	0060818349	fridge bottom bottle seat assembly	1	0.00%	
4	0060821736	fridge foam door	1	0.00%	
5	0064098047	screw	4	0.00%	
6	0064082803	screw	4	0.00%	
7	0060219681	handle seat	2	0.06%	
8	0060163046	handle	1	0.00%	
9	0060821736S	fridge door seal assembly	1	0.00%	
FREEZER FOAMED DOOR ASSEMBLY					
1	0060818280	freezer top bottle seat assembly	4	0.00%	
2	0060215421B	cover of filler	1	0.00%	
3	0064000156	lamp	1	0.00%	
4	0060103988	press patch of filler bracket	1	0.00%	
5	0064082811	cross groove self attach screw	1	0.00%	
6	0064000270	lamp switch	1	0.00%	
7	0060600070	spring of filler bracket	1	0.00%	
8	0060300256	seal ring of leaking mouth	1	0.12%	
9	0060300254	sponge tray of filler	1	0.00%	
10	00606040068	cover heater of filler mouth	1	0.00%	

		REFRIGERATOR		CAFF19SI
No. in the exploded	Spare parts number	Description	Qty	Failure Rate
11	0060205622	filler cover	1	0.00%
12	0060214992	switch plywood	1	0.00%
13	0060600096	jiggling switch	1	0.00%
14	0064082811	cross groove self attach screw	1	0.00%
15	0060214609	bracket of control board	1	0.00%
16	0060301125	protection cover tray of filler	1	0.00%
17	0060818937B	dispenser outsider bucket	1	0.00%
18	0060819075D	display panel I	1	0.00%
19	0064001168	display panel II	1	0.00%
20	0064098047	screw	4	0.00%
21	0064082803	screw	4	0.06%
22	0060219681	handle seat	2	0.06%
23	0060821737	freezer foamed door	1	0.00%
24	0060806082	electromagnetism .valve	1	0.00%
25	0060600097	cross groove self attach screw	3	0.00%
26	0060214613	bracket of touch switch	1	0.00%
27	0060600097	cross groove self attach screw	4	0.00%
28	0060214599B	big water tray	1	0.00%
29	0060214600B	small water tray	1	0.00%
30	0064082855	cross groove self attach screw	1	0.00%
31	0060163046	handle	1	0.00%
32	0060821737S	freezer foamed door seal	1	0.02%
ICE-CRUSHED MOTOR BOX ASSEMBLY				
No. in the exploded	Spare parts number	Description	Qty	Failure Rate
1	0060205637	slide seat	1	0.00%
2	0060600075	spring column pin	1	0.00%
3	0060205638	slide block	1	0.06%
4	0060205640	connecting guide	1	0.00%
5	0060205639	connecting cover	1	0.00%
6	0060600074	compressed spring	1	0.00%
7	0060600076	spring column pin	1	0.00%
8	0060806081	electromagnetism valve	1	0.01%
9	0064000955	ice-crushed motor	1	0.00%
10	0067270041	double tape	1	0.00%
11	0060300257	eliminating noise foam block	1	0.00%
12	0060214386	ice-crushed box	1	0.00%
13	0060600091	stainless cross tray bolt	2	0.00%
14	0060600077	dial fork	1	0.00%
15	0060600078	fitting screw	1	0.00%


	REFRIGERATOR		CAFF19SI	
ICE-CRUSHED BOX ASSEMBLY				
No. in the exploded	Spare parts number	Description	Qty	Failure Rate
1	0060214377	ice store box	1	0.00%
2	0060300270	ice box seal ring	1	0.00%
3	0060205623	shaft cover of push shaft	1	0.06%
4	0060161361	ice push screw	1	0.00%
5	0060600067	wrest spring of dial pole	1	0.00%
6	0060103727	bracket of dial pole	1	0.00%
7	00608010087	screw	1	0.00%
8	0060103725	block patch of push ware	1	0.01%
9	0060161948	dial pole of push tongue	1	0.00%
10	0060205605	roller of push	1	0.00%
11	00608010087	screw	1	0.00%
12	0060161303	ice-crushed clapboard	1	0.00%
13	0060103724	No. 3 circumrotate skates	1	0.06%
14	0060205607	No. 1 skates tray	4	0.00%
15	0060103721	No. 2 fix up skates	1	0.00%
16	0060205609	fitting block of skates	1	0.00%
17	0060205608	No. 2 states tray	1	0.00%
18	0060103723	No. 2 circumrotate skates	1	0.00%
19	0060205607	No. 1 skates tray	1	0.00%
20	0060103720	No. 1 fix up skates	1	0.00%
21	0060205608	No. 2 states tray	1	0.06%
22	0060600082	spring column pin	1	0.00%
23	0060103722	No. 1 circumrotate skates	1	0.00%
24	0060205604	fitting screw	1	0.00%
25	0060600072	living tongue wrest spring	1	0.00%
26	0060205606	wrest spring of ice box	1	0.01%
27	0060205616	skate seal	1	0.00%
28	0060600083	pin of living tongue	1	0.00%
29	0060600091	screw	3	0.00%
30	0060600069	round tray	1	0.00%
31	0060600071	spring tray	1	0.06%
32	0060214378	front lid of ice box	1	0.00%

■ **CAPLE** ■

Household Refrigerator/Freezer

Operation Manual



The symbol  on the product or on its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAFF19SI

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- Please read this operation manual carefully before using the appliance.
- Keep this manual properly for future reference.
- Appearance, color and layout of the door may vary.

After-sales service

Failure of cubed ice supply

● No cubed ice in cubed ice tray. Wait until cubed ices are available.

● High temperature is set for the freezer compartment. Set freezer temperature to lower degree to improve ice making efficiency.

● Water supply valve is turned off. Turn on the water supply valve.

● Refrigerator or freezer compartment door is not closed. Close all the doors of the appliance.

Dispenser blockage

● Defrost stuck on the auger due to operation interruption, temperature variation or high voltage. Empty, clean and dry the cubed ice tray before replacing it to the dispenser.

● Cubed ice blockage between ice maker and cubed ice tray. Remove the cubed ices.

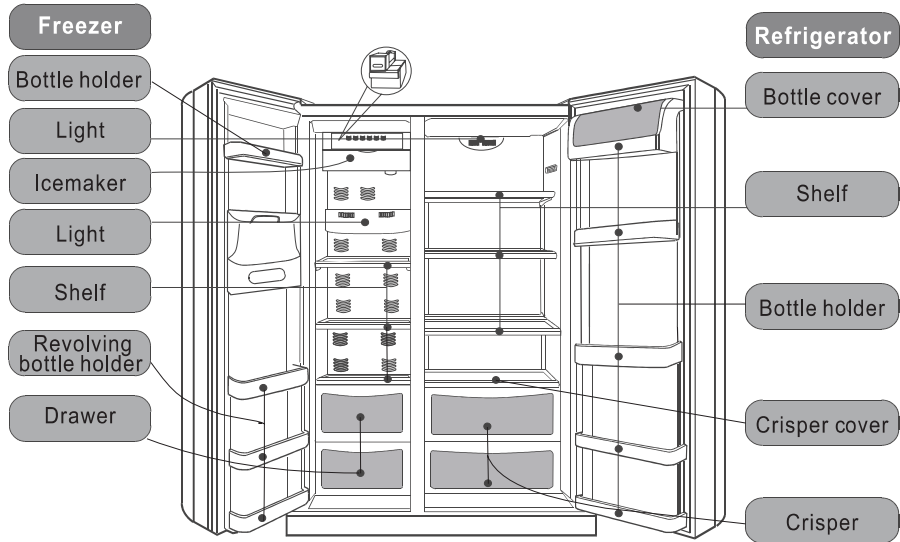
● Cubed ices get stuck. Operate the dispenser regularly.

● Foreign cubed ices are used in the dispenser. Only cubed ices produced by this icemaker can be used for the dispenser.

Primary features

- ① **Spacecraft insulating technology**
Spacecraft insulating materials have been used for some key areas to reduce insulating layer thickness and energy consumption.
- ② **Ice making**
Automatic icemaker, auger and cold water dispenser
- ③ **Sliding food shelves for easy access**
Inside freezer and refrigerator compartments install sliding food shelves for convenience of food loading and unloading. Shelves can be removed if door is opened as far as at 90°.
- ④ **Slim design and large volume**
Slim design and large volume for both refrigerator and freezer compartments; door color subject to customer's requirement; refrigerator shelves and crisper made of high class tempered glass
- ⑤ **Freon- and frost free freezing system for deep- and quick-freezing.**
- ⑥ **Pre-cooling for defrost**
Before frosting, activate advance-cooling performance according to temperature inside the appliance to minimize temperature difference before and after defrost. In such a way, the food fresh state and nutrition can be well preserved.
- ⑦ **Automatic malfunction display**
- ⑧ **The appliance has been equipped with a condensing unit, noted for fan cooling, excellent performance and extended service life of compressor.**
- ⑨ **Open door warning and LED indication**

Diagram of parts



Dear customer,

Thank you for your purchasing this product.

Please read this manual carefully before using the electrical appliance that you have just purchased.

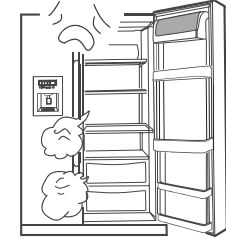
Layout of the refrigerator that you have just purchased may vary due to technical improvement of this company.

After-sales service

Please determine the cause of the problem before making any repair.

Excessively long operation period of the compressor may result from,

- Initial operation
- Large quantity of food loaded
- Door not properly closed.
- Frequent opening of the door
- Hot weather
- Higher level position is selected. (refer to section "Operation")
- Poor ventilation



Thick frost formation on food

- Frozen food in packing materials.
- Door improperly closed.
- Frequent opening of the refrigerator door.
- Food close to air vent.

Strange odor

- Failure to seal food properly
- Rotting food inside refrigerator
- Failure of regular cleaning of the refrigerator



Ice maker does not operate properly.

- Cubed ices get stuck. Remove and break down the stuck cubed ices. Only separated cubed ices can be replaced to the cubed ice tray.

- If excessively smaller or larger cubed ices are supplied, adjust water supply of the icemaker.

- If stored for an extended period, cubed ices may get stuck.

- When power supply is interrupted, remove all the cubed ices and dry the cubed ice tray, as cubed ices may be defrosted and defrosted water may flow to the freezer compartment.

After-sales service

In the event that the refrigerator does not work properly, please check out and solve problems according to the following methods. If problems persist, contact the after-sales service center. Information of model, accessory list and serial number of the refrigerator is required.

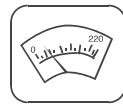


Please determine the cause of the problem before making any repair.

The refrigerator does not operate.



Disconnection to the power supply (plug, socket or fuse); Switch is off.



Voltage is low.

Lamp does not illuminate.

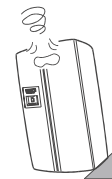


The bulb is bad.

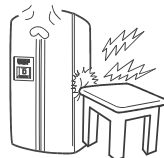


Power supply is not connected.

Excessive noise



Uneven placement.

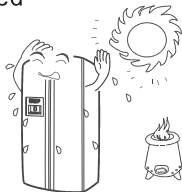


Contact between the refrigerator and a wall or other article.

Set temperature not reached



Door is not properly closed, or the door is opened for long period;



Refrigerator is in direct sunlight, or close to a heat source;



Poor ventilation resulted by space blockage at rear side, where the radiator is located, and both sides of the appliance.

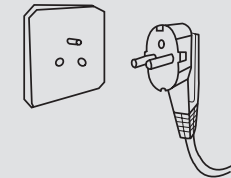
Safety precautions

This refrigerator requires a 220-240V/50Hz supply

Failure in operation and damage to the control panel, thermostat or the compressor will occur if voltage is outside the range 187-242V unless a regulator with a capacity of over 750W or higher is installed.



A separate earthed socket is required. The refrigerator is supplied with a standard three-pin plug, of which the one for grounding should never be removed. Plug of installed refrigerator shall be always accessible.



Care for external cable

*Hold the plug, not the electric cable, when unplugging the refrigerator.

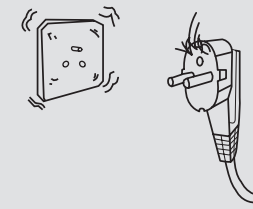
*Ensure that the electric cable is not trapped by the refrigerator. Do not step on the cable.

*Avoid damage to the electric cable when moving the refrigerator.



Damaged electric cable

When the electrical cable is damaged or worn, turn off the refrigerator and consult to an authorized service agent for replacement



If inflammable gas leaks in the vicinity of the refrigerator

*Turn off any leaking valve;

*Open the doors and windows;

*Do not, under any circumstances, unplug electrical appliances in the vicinity of the leak.



Unplug the refrigerator for the following:

*Cleaning or maintenance;

*Replacement of lamp

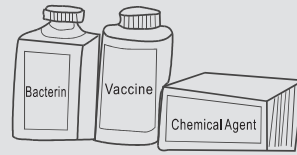


Safety precautions

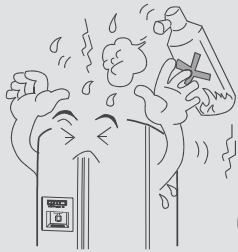
Never store inflammable, explosive or corrosive materials in the refrigerator.



This refrigerator should be used for food storage. It is not recommended to place microbiological or chemical materials, which have special requirement in temperature setting.



Do not install the refrigerator near gasoline or other inflammable articles.



Don't place electrical plugs, regulators or microwaves on top of the refrigerator. Don't use electric appliances (Except those allowed by manufacturer) inside the refrigerator.



Do not swing on or apply excessive pressure to the refrigerator door.

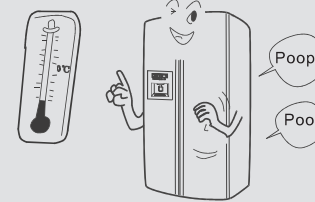


Do not touch inside surface of freezer compartment in operation, especially with wet hands as hands may freeze onto the surface.

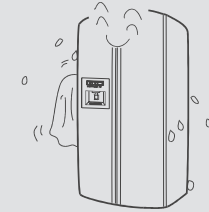


Troubleshooting

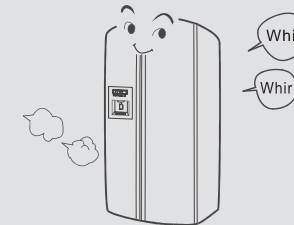
The evaporator and piping system of the refrigerator may produce a slight sound when the refrigerator operates due to ambient temperature changes.



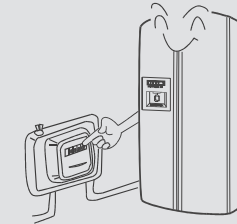
Water droplets may occur on outer surfaces and middle connection of the refrigerator due to heavy moisture in room air. Wipe clean with soft cloth.



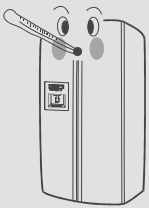
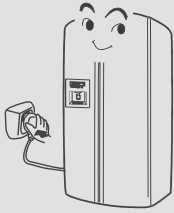
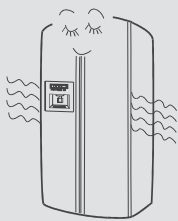
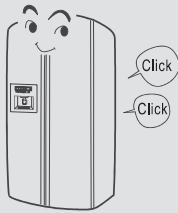
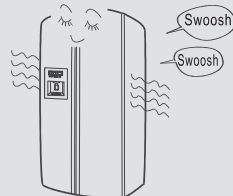
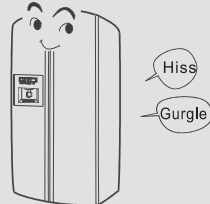
The fan of an operating refrigerator may produce a slight sound.



Energy efficiency specified in the technical parameters complies with government standards and is measured under the following conditions: ambient temperature 25°C, refrigerator compartment temperature 5°C, freezer compartment temperature -18°C and 24h continuous operation with doors closed. Actual power consumption may exceed this value if more food in storage, ambient temperature higher and the door more frequently opened.



Troubleshooting

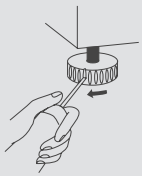
<p>Temperature of the refrigerator and the compressor will rise and the compressor will run for comparatively longer periods when the refrigerator is first started.</p> 	<p>A slight sound may be heard when the appliance is first started. The sound will be lower and lower gradually a short period later.</p> 
<p>When the refrigerator is first operated, the case may become warm. This is designed to prevent condensates.</p> 	<p>The compressor may produce a slight sound when the compressor starts or ceases operation.</p> 
<p>Liquid refrigerant flowing in the evaporator may produce a slight sound similar to that of flowing water. When the refrigerator is stopped, the backflow refrigerant may also generate that sound.</p> 	<p>During defrosting process, a slight sound may be generated. This sound is resulted by defrosted water dropping to the heater and by the evaporator.</p> 

Safety precautions

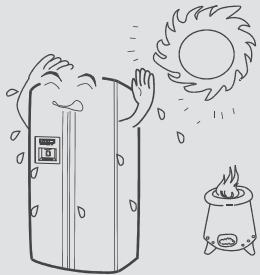
<p>Care should be paid to avoid injury to fingers by closing appliance doors. Open or close appliance doors only when no children stand within the range of door movement.</p> 	<p>Do not spray or splash the refrigerator when cleaning the refrigerator, nor place the refrigerator in a damp area.</p> 
<p>Disassembly, renovation or cooling system maintenance of refrigerator must be authorized.</p> 	<p>Never store bottled beer or beverages in the freezer compartment.</p> 
<p>Unplug the refrigerator in the event of a power interruption or during cleaning. Allow at least 5 minutes lapse before restarting the refrigerator.</p> 	<p>Remove the refrigerator door and door seal if the refrigerator is discarded to prevent accidental entrapment in the refrigerator.</p> 

Location

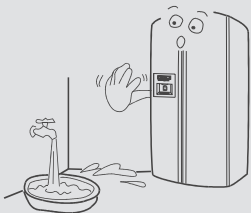
The appliance should be placed on a flat and solid surface. If the appliance is placed on a plinth, flat, strong and fire-resistant materials must be used. The front foot of the appliance can be adjusted clockwise or anti-clockwise to lift or lower the appliance if it is placed on an uneven surface.



The refrigerator shall be placed away from heat sources or direct sunlight.

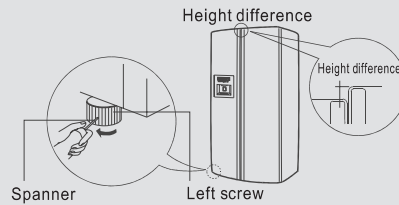


Never place the refrigerator near to a water source. Clean and dry any water splashes and stains with soft cloth.

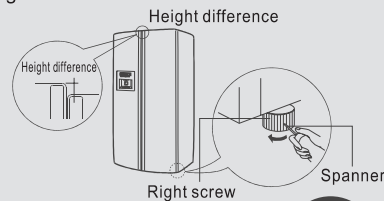


Door adjustment

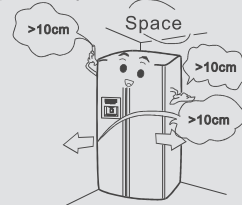
If freezer door below refrigerator's
Apply a spanner on the slot of left screw, turn as directed by the arrow until the freezer door reaches the same height of refrigerator door.



If freezer door above refrigerator's
Apply a spanner on the slot of right screw, turn as directed by the arrow until the freezer door reaches the same height of refrigerator door.



The appliance should be placed in a well-ventilated area, and a space of 10cm or more should be allowed around the refrigerator. If the appliance is built in the wall, at least 25cm and 5cm gap must be kept above and around the refrigerator, respectively.



Vacation

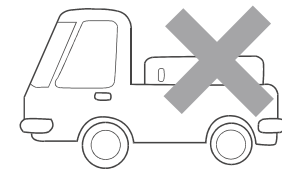
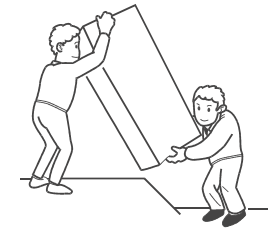
Before leaving for a vacation

- If the vacation is short, remove vulnerable food from the refrigerator, set the Holiday Mode and make sure that the door of the refrigerator is properly closed.



Moving the refrigerator

- Unplug the refrigerator.
- Remove all the food.
- Secure the shelves in the cold storage compartment, vegetable and fruit tray and drawers in the freezer with tape.
- Tightly close and tape the door of the refrigerator.
- Do not tilt the refrigerator more than 45 degrees.



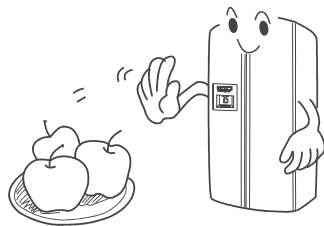
Caution: Never place the refrigerator horizontally.

Vacation

Power interruption

Even in summer, food can be stored in the refrigerator for a few hours after a power interruption.

- Don't put additional food into the refrigerator during a power interruption and try to open the door as less frequently as possible.
- If prior notice of a power interruption is given, make some ice and put it in a container in the top of the refrigeration compartment.

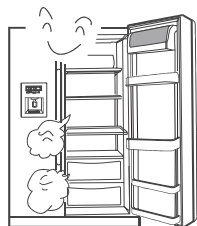


Caution: Temperature in the refrigerator will rise as for a power interruption or technical problem, and the storage period will be reduced.

Ceased operation

If the refrigerator is to be ceased for an extended period, unplug the refrigerator and clean the refrigerator as previously described.

Keep the door of refrigerator open when the power is turned off to prevent any food remaining in the compartment from producing bad odors.



Caution: It is recommended that the refrigerator be not turned off unless it is necessary.

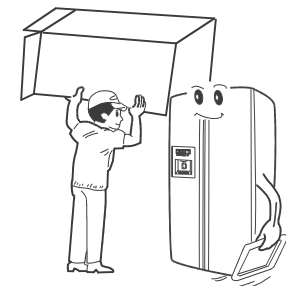


Caution: Do not restart the refrigerator until a period of at least five minutes has elapsed.

Preparation

1

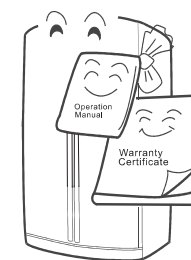
Unpacking
Remove all packing materials.



2

Check attached accessories and materials.

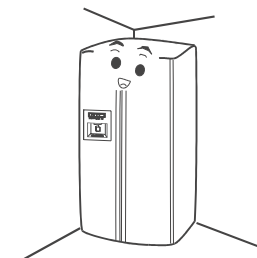
Check if all accessories specified in the Packing List are available. Contact the local distributor if shortage is found.



3

Ensure that the refrigerator is properly located.

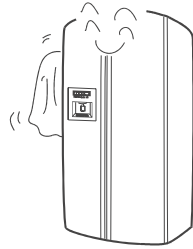
(See section "Location")



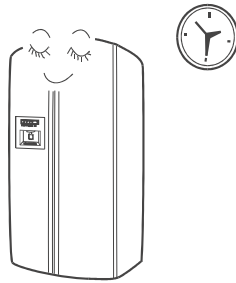
After unpacking, write down the model and manufacture number of the refrigerator on the Warranty Certificate which will be required if technical services are applied for.

Preparation

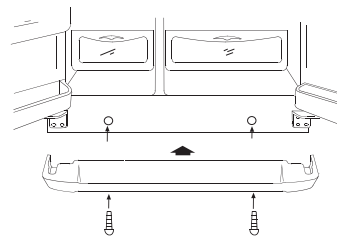
- 4 Clean the refrigerator before using.
(See section "Cleaning")



- 5 Time lapse before power supply
Connect the refrigerator to power source
at least 6 hours after the refrigerator is
sited and cleaned.



- 6 Fixing of bottom decorate
open the door ,get the decorate strip from
refrigerator room and fix on the illustrated
location.



Defrosting · Cleaning

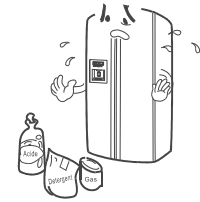
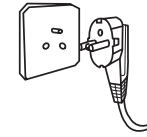
Defrosting

Defrosting is performed automatically.

Cleaning

The refrigerator should be cleaned regularly
to prevent the formation of bad odors.

- Disconnect the power before cleaning the refrigerator.
- Clean the refrigerator with a soft cloth or sponge with mild detergent.
- Dry water droplets on surfaces of the refrigerator with a piece of cloth.



Caution: Do not use a hard brush, steel brush, detergent, gasoline or other solvents, hot water, acid or alkali for cleaning.



Caution: Do not use excessive amounts of water for cleaning the refrigerator. Use a dry cloth to clean the switch and the lamp.

- Always keep the door gasket clean.



Precautions for dispenser operation

Precautions

- Do not use excessively deep or narrow glasses.
- Hold the glass properly close to the supplier to avoid dropping of cubed ices and cubed ice supply blockage.
- 5 seconds later after ice or water is supplied, the supplier will close with a slight phutt sound produced.
- Hold the glass still for another 2 or 3 seconds after releasing the switch lever as remaining cubed ices may be supplied.
Hold the glass still for another 10 or 20 seconds after releasing the switch lever as remaining water may be supplied.
- Regularly clean and dry the water tray of the dispenser.
- Some crushed ice is likely supplied if cubed ice supply mode is set after crushed ice supply.
- Remove remaining crushed ice at the ice supplier to avoid blockage.
- Do not place beverage cans or food in the cubed ice tray to avoid damages to the icemaker.
- Do not touch the ice supplier nor dismount the icemaker cover to avoid accidental injury.
- First loads of water (7 glasses) and cubed ices (20 pieces) are not potable after the appliance is operated for the first time or an extended period of vacation.
- Do not place foreign cubed ices in the cubed ice tray to avoid failure of ice crushing or ice supply.
- Inefficient water supply may result in smaller cubed ices. Excessive water supply may cause larger cubed ices, water spillage to cubed ice tray or stuck cubed ices. Adjust water supply faucet or contact professional agent for repair.

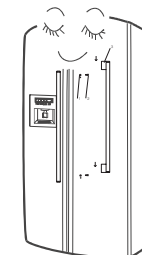


Caution: The motor valve and relay may produce some phutt sound when cubed ice is supplied.

Preparation

7 Fix the door handles

First fix Part 2 into the door hole (inside in Part 1), Two for one door. Take Part 3 out, use the big hole aiming at Part 2 and push down until part 3 touch the door firmly.



Operation

1 Connection to power supply

When appliance is connected to power supply, the intelligent operation and CRUSHED ICE modes are activated automatically with display of actual refrigerating and freezing temperatures.

The appliance is equipped with a memory system, which can ensure that latest operation mode is resumed when power is supplied after an interruption.

2 Loading the appliance with food

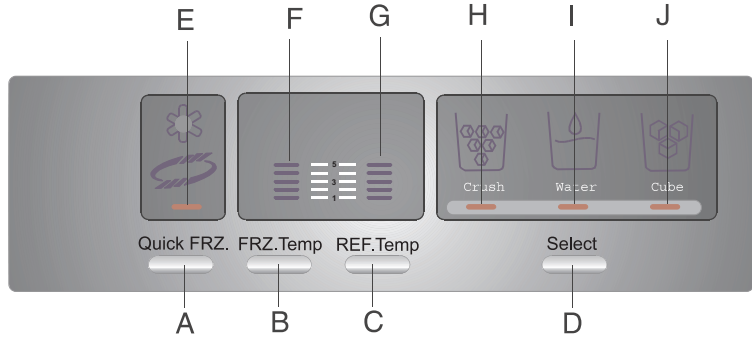
Load the appliance with food when the set temperature of the appliance compartments is reached.



Caution: Some time will be required for the appliance to reach the set level when the temperature is adjusted. The length of this period is determined by difference in the existing and set temperatures, the ambient temperature, the frequency with which the door is opened and closed and the amount of food in storage.

Functions

1 Control panel

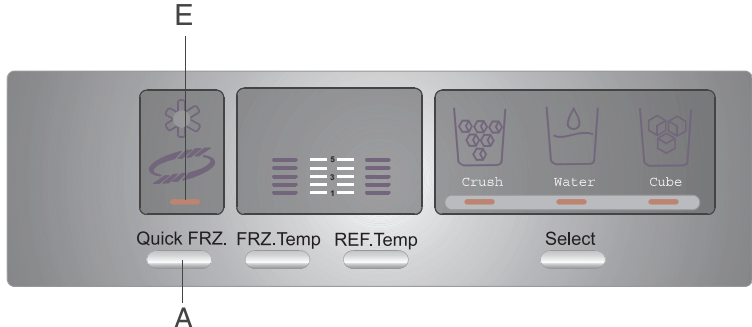


- A. Super freeze
- B. Freezer temperature
- C. Refrigerator temperature
- D. Ice/Water
- E. Freezer indicator
- F. Freezer temperature indicator
- G. Refrigerator temperature indicator
- H. Auger indicator
- I. Water indicator
- J. Ice cube indicator

2 Malfunction display

If control or function system does not work properly, information of refrigerator or freezer compartment temperature will not be displayed, but the code of malfunction. Contact authorized after-sales service for technical assistance.

3 Super freeze



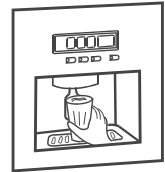
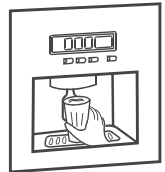
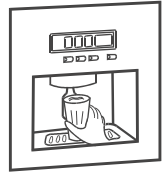
Super freeze function is designed to preserve the nutritional value of food as the food will freeze completely in the shortest period possible. Press button A, indicator E lights, and super freeze mode is activated. If button A is pressed again, indicator E goes out and super freeze mode is inactivated.

Operating dispenser

Dispenser operation

Opt for crushed ice, cool water or cubed ice supply. Press Ice/Water button with the glass as shown in the figure.

- ① Crushed ice supply
 - Press desired option button, the crushed ice indicator illuminates.
 - Slightly push the switch lever and crushed ice will be supplied.
- ② Cubed ice supply
 - Press desired option button, the cubed ice indicator illuminates.
 - Slightly push the switch lever and cubed ices will be supplied.
- ③ Cool water supply
 - Press desired option button, the cool water indicator illuminates.
 - Slightly push the switch against lever and cool water will be supplied.




When crushed ice is supplied

- Sometimes crushed ice is supplied after cubed ice supply mode is set when cubed ices are delivered to the auger.
- The door of ice bin may get frosted especially when crushed ice is supplied frequently. The frost will evaporate automatically.
- Hold the glass to the dispenser as closely as possible to avoid spillage of crushed ice.

When cool water is supplied

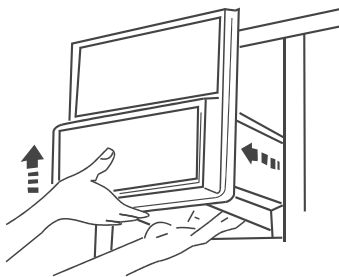
- Cool water is not available immediately after the appliance is installed due to some air in water tubes. Press cool water supply button of the dispenser and wait for at least 2 minutes before the remaining air is completely dispelled by the water.
- Supplied water will become colder and colder gradually.
- Cool water does not contain cubed ices. Crushed ice or cubed ices can be added to cool water if colder cool water is desired.

 Caution: Accidental access of any foreign article into the dispenser should be avoided.

Handling ice cube tray

Dismounting the cubed ice tray

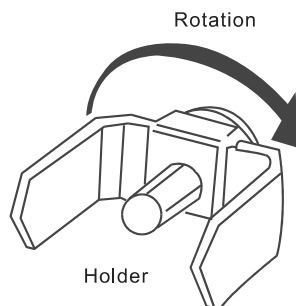
Pinch the cubed ice tray at the center and remove it from the shelf.



Replacing the cubed ice tray

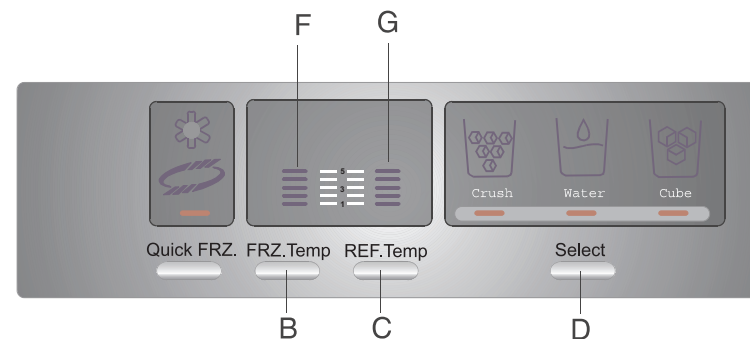
Slide the cubed ice tray to the grooves by the two sides of inner liner until the clips fit to position.

If the cubed ice tray cannot fit the position properly, remove the cubed ice tray and turn the holder structure by 90°, then replace the cubed ice tray again until the clips fit to position.



Functions

4 Temperature setting and adjusting



Adjusting refrigerator temperature: Press button C, indicator G blinks. Every press of button C will result in 1 scale increase until position 5 is reached. If button C is pressed again, the cycle will restart from position 1.

Adjusting freezer temperature: Press button B, indicator F blinks. Every press of button B will result in 1 scale increase until position 5 is reached. If button B is pressed again, the cycle will restart from position 1.

Ice/water supply: Press button D continuously for selection of crushed ice, cold water or ice tube supply. In this process, relative indicator lights.

5

Open-door warning

If the door is not properly closed, or the door is opened for an extended period, the appliance buzzer will sound at an interval.

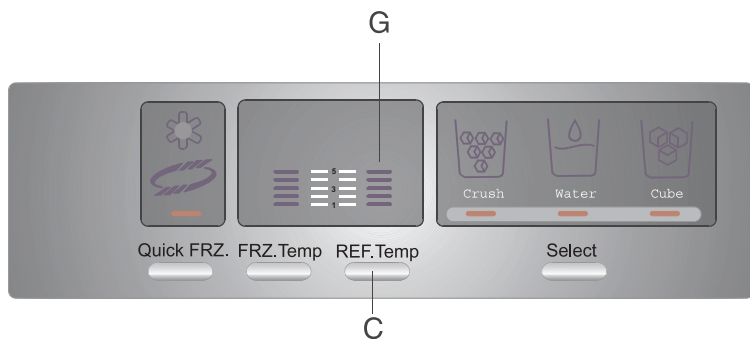
Functions

6 Control function display

30 minutes later after the final press of button, display will be blank. Previous display can be resumed if any button is pressed or any door opened.

7 Refrigerator ON/OFF function

Hold button C pressed for 3 seconds, the refrigerator performance ceases and icon G goes out, leaving refrigerator light under normal status. If refrigerator performance ceased, hold refrigerator temperature adjusting button C pressed for 3 seconds again, icon G will appear and refrigerator performance will be resumed.



Icemaker and cold water dispenser

3 Operating principle of icemaker

8 cubed ices are made in every cycle. Capacity of ice making depends on freezer temperature, ambient temperature and appliance door opening frequency.

First loads of cubed ices are not potable after the appliance is operated for the first time or an extended period of vacation.

To ensure that the cubed ice tray is fully filled, manual arrangement is necessary.

Some of the 8 cubed ices dropped from the icemaker in one cycle may stick to each other.

4 If this is your first icemaker,

Some strange sound may be heard in the process of ice making.

5 If cubed ices are stored for an extended period

Cubed ices stored for an extended period may become opaque or generate strange odor. Cubed ice tray should be cleaned regularly with warm water. The cubed ice tray should be cooled down and air-dried before replaced to avoid sticking of cubed ices to the tray.

6 Extended cessation of cubed ice tray in winters

If the cubed ice tray is not used for an extended period in winters, remove all the cubed ices from the tray and wash the tray clean with warm water. Wipe the tray with a towel before replacing it to the appliance, and then turn off the valve between water supply resource and the appliance.



Caution: Allow 24 hours after the appliance is installed before the freezer compartment temperature drops down to the degree for ice making.

Icemaker and cold water dispenser

1

Before using the icemaker and cold water dispenser

- Water supply tube installation
Pressure of the cold water supplied to the automatic ice maker is between 0.15~0.85Mpa.
- The water tube of necessary length, usually 12 meters, should be free from bend after being inserted in place. Excessively longer water tube may reduce water pressure and, as a result, the capacity of ice making.
- Since the purifier does not function for sterilization of any bacterium, it is strongly recommended that drinking water be used for ice making.
- The water tube should be away from any heat resource.
- The water tubes should be installed and tested by authorized technical personnel.
- When the appliance is put into operation for the first time, keep the Cold Water button pressed every 1 minute (do not press the button for extended period or otherwise the water valve may become too hot.) to supply cold water into the tank of refrigerator/freezer compartment until cold water is supplied.

2

Precautions

- Never install the icemaker water tube in an area with a temperature below 0°C to avoid freezing of the water tube.
- Turn on the valve to flush the water tube for leak test of water tube joints. Turn off the valve when the water becomes clear.
- The icemaker will start ice cube making when internal temperature reaches or is below -15°C. (First loads of cubed ices are not potable)
- After the appliance is located, ensure that the water tube is properly arranged to avoid indents or damages.
- Installation of the icemaker must be carried out by an authorized agent.
- This icemaker can only be supplied with drinking water.
- **Don't take out the ice continual over 1 minutes please, and don't take out the ice add up over 3 minutes within 1 hour, Or the refrigerator set up the function of protection. It's natural. If take out ice over 1 minutes continuum, Please take the second time after 10 minute, If add up 3 minutes within 1 hour, the ice send-off system will stop send off automatically for 1 hour.**

Refrigerating storage compartment

Refrigerator is for short-term food storage of daily consumption.

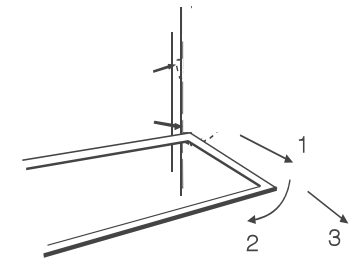
Although the temperature in most areas in the refrigeration compartment can be regulated between 0°C and 10°C, extended periods of food storage is not recommended. Refrigerator should only be used for short-term storage.



Adjusting shelf height

The food shelves can be relocated to accommodate food in according to the size or height.

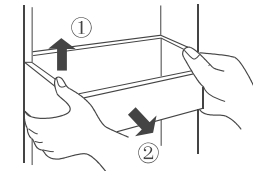
Food shelves can be pulled out for position adjustment or cleaning. When food shelves are to be removed, pull the shelf in direction 1, turn the shelf in direction 2 until the shelf is perpendicular and take out the shelf in direction 3. In such way, the shelf can be handled when the door is opened as far as at 90°.



Adjusting and cleaning bottle holder

Hold two sides of bottle holder and pull consecutively in direction ① and ②, then the bottle holder will be removed.

After cleaning, bottle holder can be reinstalled to previous position or relocated if necessary.

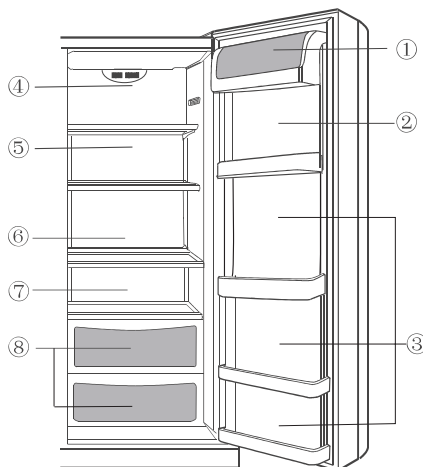


Refrigerating storage compartment

Storage areas

As cold air circulates inside the refrigerator, temperature differences exist inside the storage compartments. Different foods should be placed in different areas according to their properties.

- ① Eggs, butter and cheese
- ② Soda drinks, canned food and seasonings
- ③ Beverages and bottled food
- ④ Pickled food or canned pickled food
- ⑤ Meat and snacks
- ⑥ Wheaten food, canned food, milk and beancurd
- ⑦ Cooked meat and sausages
- ⑧ Fruit, vegetables and salad

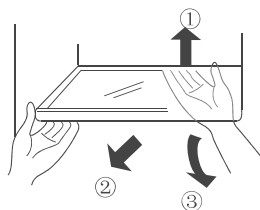


Fresh food storage

This system uses vitamin preservation technology, which can absorb strong odor and preserve nutrition and fresh status of food.

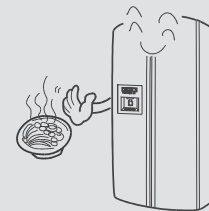
Crisper cover removal

Raise the food shelf with rear side in direction ① and pull it in direction ②. Turn the shelf in direction ③ to take it out when the door is opened as far as at 90°.



Freezing storage precautions

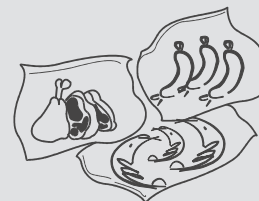
Hot food should not be stored in the refrigerator until it has cooled down to room temperature.



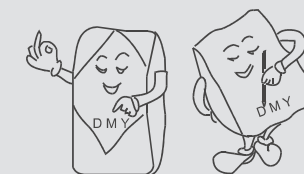
Food cut into small portions will freeze faster and be easier to defrost and cook. The recommended weight for each portion is less than 2.5kg.



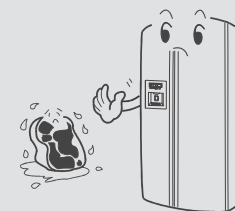
The outside of any food packing should be dried before storage in the freezer, and any packing materials should be odor-free, airtight, non-poisonous and nontoxic.



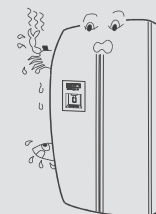
Food should be stored in accordance with any information printed on the packing.



Only remove the required amount of food from the freezer compartment. Defrosted food cannot be re-stored in the freezer unless it is first cooked.



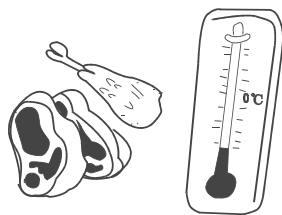
Do not load excessive quantity of fresh food in the freezer compartment. Quantity of the food in storage shall comply with the cooling capacity of the refrigerator.



Freezing storage compartment

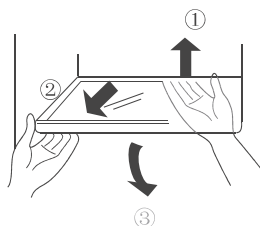
Long-term storage of food

As the freezer storage temperature is very low, fresh food can be stored in the freezer compartment for a long time. Food requiring long-term storage can be stored in the frozen food compartment. Follow the instructions on the package for storage period.



Dismounting food shelves

Raise the food shelf by rear side in direction ① and pull it in direction ②. Turn the shelf in direction ③ to take it out vertically while the refrigerator door is opened as far as at 90°.



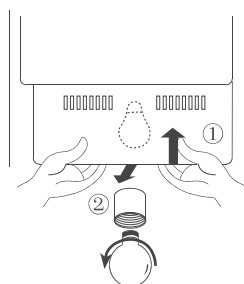
Lamp and its replacement

Lamp: 220-240V~/40W

Lamp holder: E27 (lamps exceeding 40W must not be used)

When replacing the lamp,

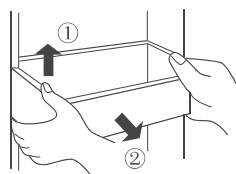
- Unplug the appliance.
- Hold up ① and pull out ② the lampshade.
- Rotate the lamp anticlockwise until the lamp is released. A lamp with the same specifications should be used for replacement.
- Install back the lampshade.



Adjusting and cleaning bottle holder

Hold two sides of bottle holder and pull consecutively in direction ① and ②, then the bottle holder will be removed.

After cleaning, bottle holder can be reinstalled to previous position or relocated if necessary.



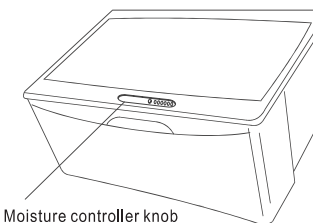
Caution: Frozen food (ice cream) should be stored close to the back wall in the freezer compartment, as the temperature in vicinity with the door is likely change, resulting defrosting of the food.

Refrigerating storage compartment

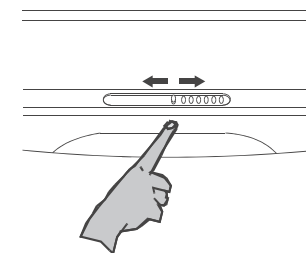
Crisper

The refrigerator has a crisper for vegetables and fruits storage with adjustable humidity value.

- Exposure of smaller or fewer holes will result in higher humidity for storage of cucumbers, grapes, kiwi, persimmons and Chinese cabbage.
- Exposure of larger or more holes will result in lower humidity for storage of strawberries, oranges, beans, garlic sprouts, water melons, plums and tomatoes.
- Make sure that the front edge of crisper cover is inside the crisper. Remove the crisper before the cover. When the crisper is to be replaced, place the cover first.



Moisture controller knob



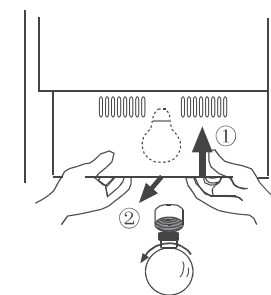
Replacing the upper lamp in refrigerator compartment

Lamp: 220-240V~/25W

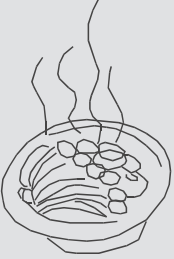



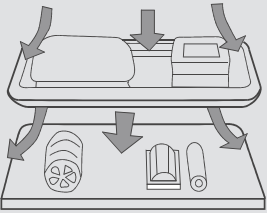
Lamp holder: E27 (lamps exceeding 25W must not be used)

When replacing the lamp,

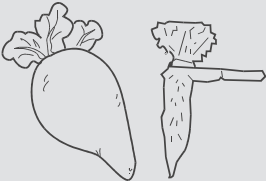
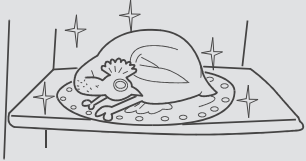
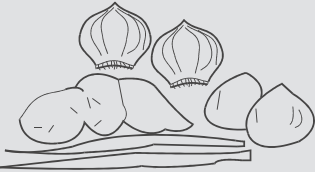
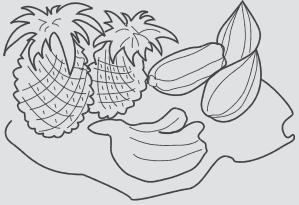
- Unplug the appliance.
- Unscrew the lampshade.
- Hold up ① and pull out ② the lampshade.
- Rotate the lamp anticlockwise until the lamp is released. A lamp with the same specifications should be used for replacement.
- Install back the lampshade.



Refrigerating storage precautions

<p>Hot food must be cooled to room temperature before storing in the refrigerator.</p> 	<p>Dry any water droplets on the food before placing it in the refrigerator.</p> 
<p>Food to be stored should be properly sealed. This will prevent moisture in the food from evaporating and prevent vegetables and fruit from tainting in flavor.</p> 	<p>Storage of sorted food Food to be stored should be sorted according to consumer requirements. Food consumed daily should be placed in the most convenient area, this will minimize opening periods for the door.</p> 
<p>Do not store excess quantities or weights of food Food should be stored with spaces in between for better storage results. Never overload shelves, as they may collapse under excessive loads.</p> 	

Suggestions

<p>Leaves of carrots or turnips should be removed before storage.</p> 	<p>Frozen food can be placed in the cold compartment before serving, as this will conserve energy.</p> 
<p>Onions, garlic, ginger, water chestnuts and other root vegetables should not be stored in the refrigerator, as these foods are suitable for long-term storage at normal temperatures.</p> 	<p>Ripe squash, melon, pawpaw, bananas and pineapples should not be stored in the refrigerator. Freezing will accelerate the ripening process.</p> 

! Avoiding the food (special for oil food) contact with the inner liner directly, due to oil can erode the inner liner. So it's better to clean the oil dirt frequently.

Technical Support Contacts

CAPLE CAFF19SI

Caple customer service

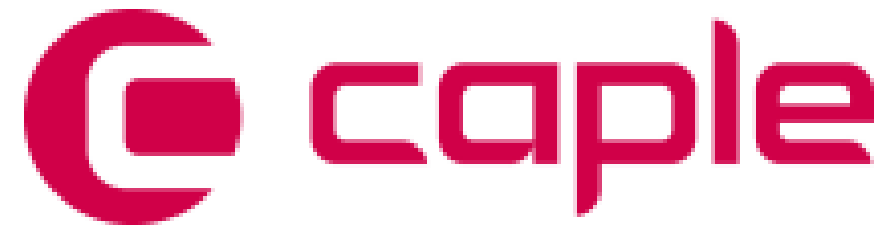
Telephone 0117 938 1900

Fax 0117 938 7441

E-mail service@caple.co.uk



THANK YOU FOR CHOOSING CAPLE



CAFF19** TRAINING

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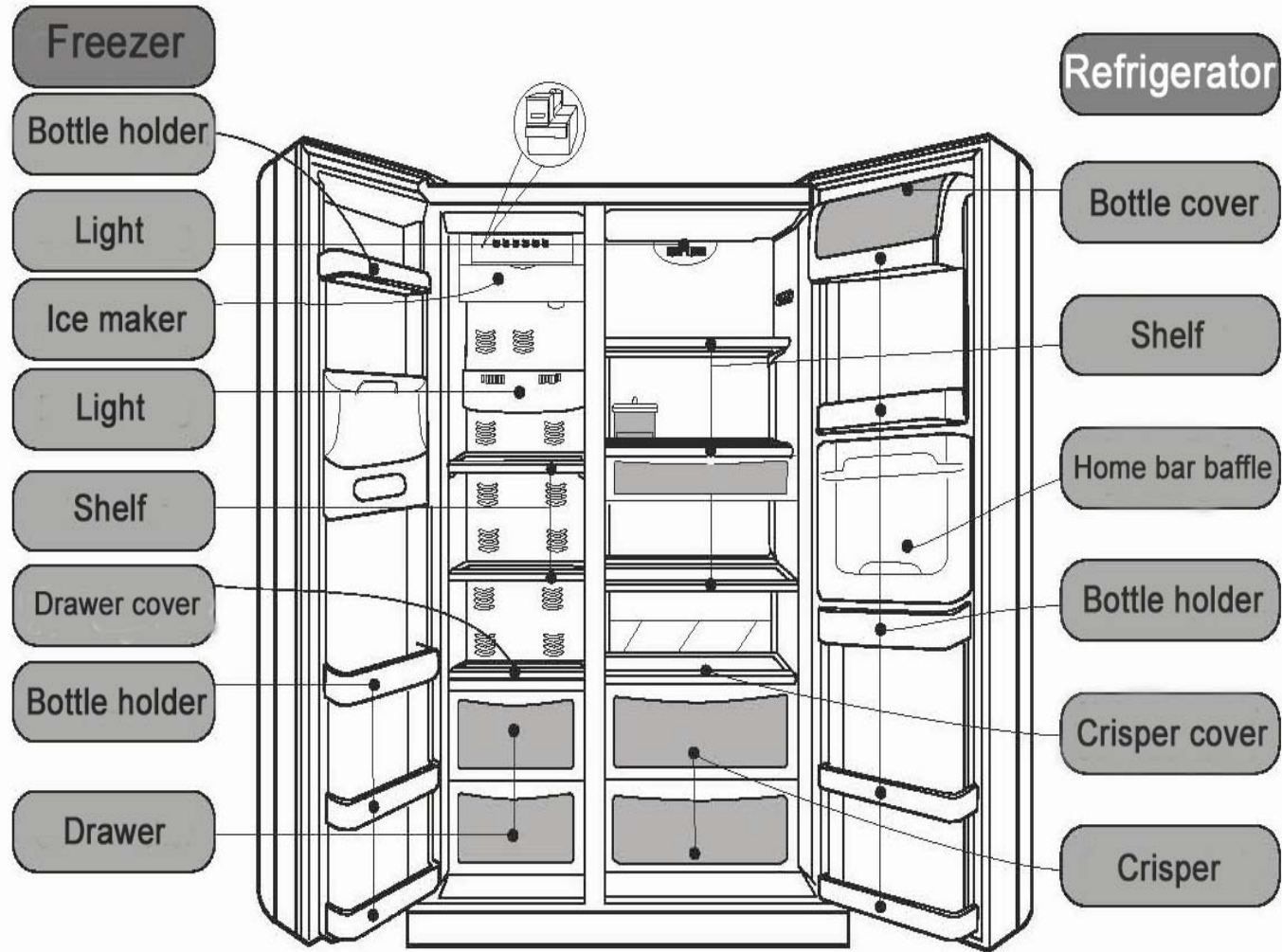
1. Characteristic
2. Configuration
3. Principle of system
4. About sensors
5. About functions
6. Circuit diagram
7. Inspection of familiar fault
8. Familiar fault inspection of control panel
9. Comparison of temperature and sensor resistance

1. Characteristic

- 1) This is a series of computer-controlled, one-system refrigerator, with one evaporator in freezing room and the temperature of refrigerating room is adjusted by the on-off of the refrigerating electro-vent.
- 2) Bar in the refrigerating door, get things without opening the door every time.
- 3) With Ice-dispenser, makes ice automatically, man can get cool water, crushed ice and ice cube.

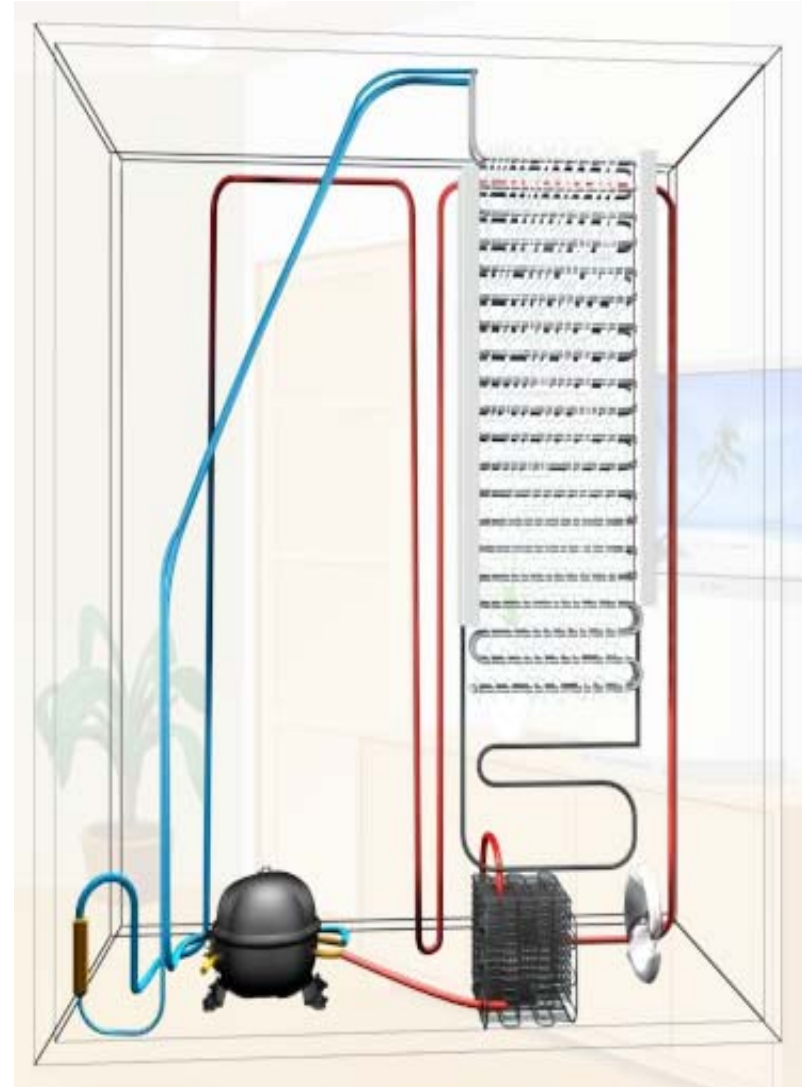


2. Configuration



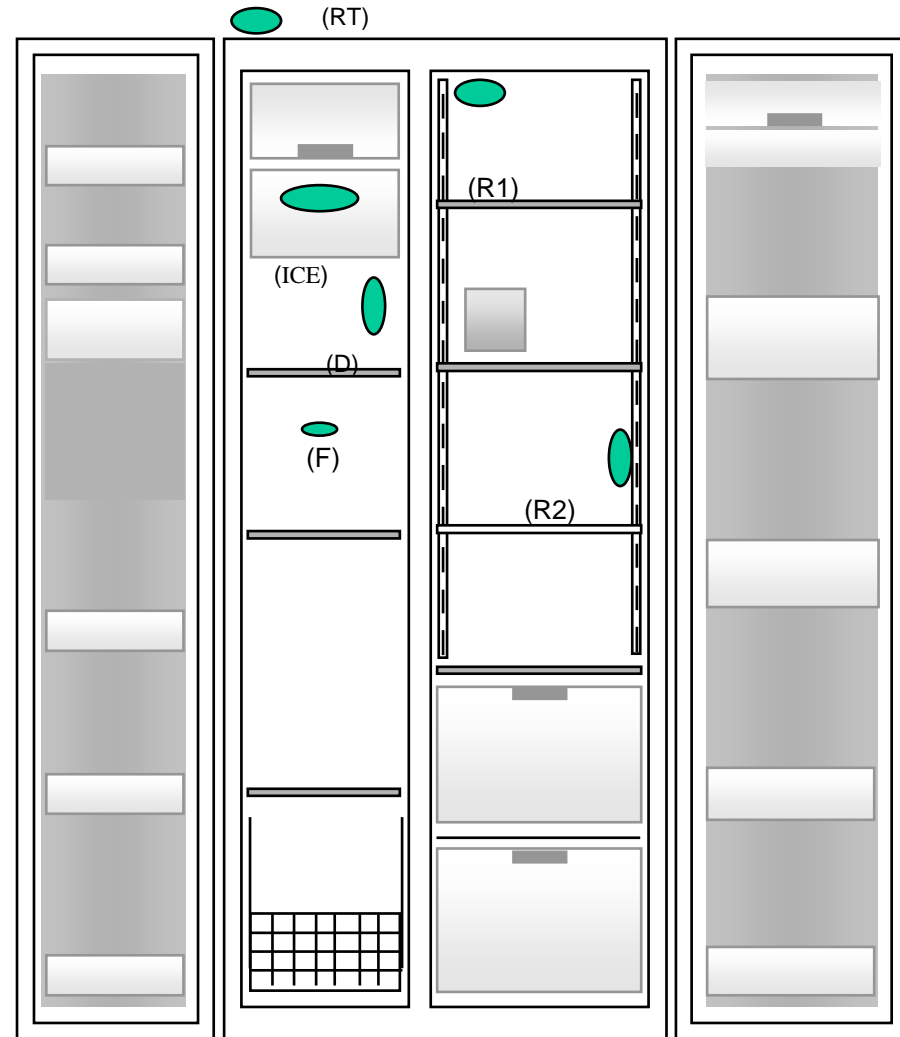
3. Principle of system

- 1、 Total wind cooling, evaporator in freezing room, cooling of refrigerating room is achieved through a fan in the freezing room.
- 2、 Main parts in the refrigerating room: Refrigerating fan, refrigerating bulb, refrigerating sensor R1/R2, Drawer and glass shelves.
- 3、 Main parts in the freezing room: Freezing fan (direct currency), ice-dispenser assembly, cover of evaporator, freezing evaporator, defrost heater, defrost fuse, defrost sensor, freezing sensor, glass shelves and drawer.
- 4、 Control panel: main board, rejecter board and display board.
- 5、 Principle of the system: refrigerant turns into gas of high temperature & high pressure, then becomes liquid of high pressure through condenser and dew proof pipe. Then runs into capillary after dry filter, the sudden change from liquid to gas of refrigerant needs taking heat, and so the cooling is possible. Then the gas returns to compressor and this is a circulation.



4. About sensors

1. Location of sensors :



About sensors

2、 Sensors fault code :

CAFF19	RT SNR is defective	Refrigerator setting 1 glitters
	R1 SNR is defective	Refrigerator setting 2 glitters
	R2 SNR is defective	Refrigerator setting 3 glitters
	F (LD)SNR is defective	Freezer setting 1glitters
	D(HS) SNR is defective	Freezer setting 2 glitters
	ICE SNR is defective	Freezer setting 3 glitters
	Defective communication	Freezer setting 4 glitters
	Defrosting fault	Refrigerator setting 4 glitters

About sensors

3. Control of sensor fault:

NO	Items	Load control			
		compressor	Vent of freezing department	Defrost heater	vent
1	Normal	Normal	Normal	Normal	Normal
2	F SNR Fault	15minON/ 15minOFF	Medium speed	Normal	Normal
3	R1 SNR Fault	Normal	1300RPM	Normal	10min on/ 15min off
4	R2 SNR Fault	Normal	Normal	Normal	Normal
5	D SNR Fault	Normal	1300RPM	2 hours shut down after defrost	Normal
6	RT SNR Fault	Normal	Normal	Normal	Normal
7	ICE SNR Fault	Normal	Normal	Normal	Normal
8	Defrost fault	Normal	1300RPM	Normal	Normal

5. About functions

1 : operation :

- ① 30 min after last operation the display will be switched off, press any button or open any door, the display will resume.
- ② By first electrify, if the temperature of refrigerator room is between on and off temperature, the appliance will remain shut down. Only when the temperature reaches the switch-on point will the appliance switch on. When the freezing room temperature is higher than switch-on point, the compressor will work.
- ③ By a second electrify, after first electrify, the display will show the state before electrify.
- ④ Freezing/Refrigerating Temperature is set by Freezing/Refrigerating button on the display panel
- ⑤ Refrigerating room switch on/off: press the Refrigerating Temperature button for 3 seconds, after one beep, the refrigerating room is shut down. The refrigerating on the display panel turns off and the refrigerating air escape turns off. Press the Refrigerating Temperature button for 3 seconds, after one beep, the refrigerating room is turned on.
- ⑥ The compressor will shut down if any of the following appears :
 - a) defrost or 7 minutes after defrost
 - b) 7 minutes after the compressor shut down
- ⑦ The light will turn off automatically if the refrigerating door or the bar in the door is opened more than 7 minutes.

Functions

2、 Control of air-escaper :

- ① Control of freezing air escaper: open the refrigerating door, the refrigerating air escaper will be turned on, and the freezing fan will be working, after 2 minutes the refrigerating air escaper will be turned off. If the freezing fan works at a speed of 1500 RPM, when the freezing door is open, the freezing fan will keep working but switch to 1300 RPM. If the fan works at a speed of 1300 RPM, it will shut off when the freezing door is open.
- ② Control of refrigerating fan: this fan is working in-phase with the compressor and at a fixed speed of 1100 RPM.

Freezing fan On/ Off conditions		OFF conditions
1500RPM	1300RPM	
1、 first electrify until the air escaper closes ; 2、 Super freezing ; 3、 TEST MODE1 ; 4、 environment temperature above35°C 5、 refrigerating door open within 2 minutes	* non-high-speed situation 1、 compressor is ON (normally) 2、 refrigerating air escaper is open	1、 automatic defrost or forceful defrost of TEST MODE 2 2、 within 15 minutes of defrosting 3、 compressor is OFF , refrigerating air escaper is shut off

Functions

3、 defrost :

- Automatic defrost: after added up to 7 hours of compressor running, defrost will be switched on. When defrost SNR reaches 7°C, defrost will be over.
- After 120 minutes of defrost, and the defrost SNR still have not reached 7°C, the defrost heater will be cut off and alarm on: 4th bar of refrigerating glitters. If defrost sensor reaches 7°C within 120 Minutes, alarm will be off.
- If, after defrost, and a 7 minutes' shut down of the compressor and fan, the freezing sensor temperature is higher than switch-off point, the compressor will be on for 5 minutes, then the freezing fan will be working. After 3 minutes running of fan, the air escaper will be on or off accordingly.
- 4、 control of air escaper :
- Refrigerating sensor R1 controls freezing air escaper
- From the beginning of defrost to 15 minutes after defrost, air escape will be off (to avoid icing in the freezing room)
- The air escape heater and ice dispenser heater work in phase.
- Environment temperature is above 12 °C, the heater of bar will be on, when lower than 10 °C, heater will be off.
- Dispenser heater and water drain pipe heater will be off for 10 minutes and 30 minutes on, thus a circulation.

Functions

5、 Ice-making system :

- ① Dispenser: can get water or ice only with the freezing door shut, choose between cool water/ cube/ crushed ice, press button and the electromagnet valve will be working and will open the ice cover. Let go of the button, ice cover will be closed in 5 seconds. Under ice cube or crushed ice mode, if pressing this button more than 3 minutes within one hour, the transmit motor will be off, and automatically resume after one hour.
- ② Turn of the ice maker: press the refrigerating and super freezing buttons at the same time for 3 seconds, after a beep, the cube and crushed ice symbol will be off, the ice maker stops working, only cool water is available. Press again the two buttons for 3 seconds, after one beep, the ice maker turns on again.
- ③ How to enter the test mode of ice-maker: press the test button on the main control board for 3 seconds, after one beep, let go of the button, and the ice-maker is under testing mode.
- ④ How ice-making works: after first electrify of the appliance, the ice-maker will start for the first time, since then it will work under control of main control board. Every 60 minutes and when the sensor of ice-maker reaches -15°C , it will pull off all the ice cubes once, mean time it will test the storage of ice cubes. If the storage is full, the ice-maker will stop pulling off the ice cubes and won't let water in. If the storage is not full, the ice-maker will pull off ice cubes and let water in. After that, the ice-maker will wait for another 60 minutes and only when the sensor reaches -15°C for a second time of pulling off. This is one circulation.

functions

- ⑤ How to turn off the ice-maker :
 - press the refrigerating and super freezing buttons at the same time for 3 seconds, after a beep, the cube and crushed ice symbol will be off, the ice maker stops working
- ⑥ Enter test mode :
 - Open the cover of main control board , press the test button on the main control board for 3 seconds, after one beep, let go of the button, and the ice-maker is under testing mode. Under this mode, the ice-maker will simulate the whole circulation of ice-making. Man can also check and adjust the water volume.

Before ice-maker closed



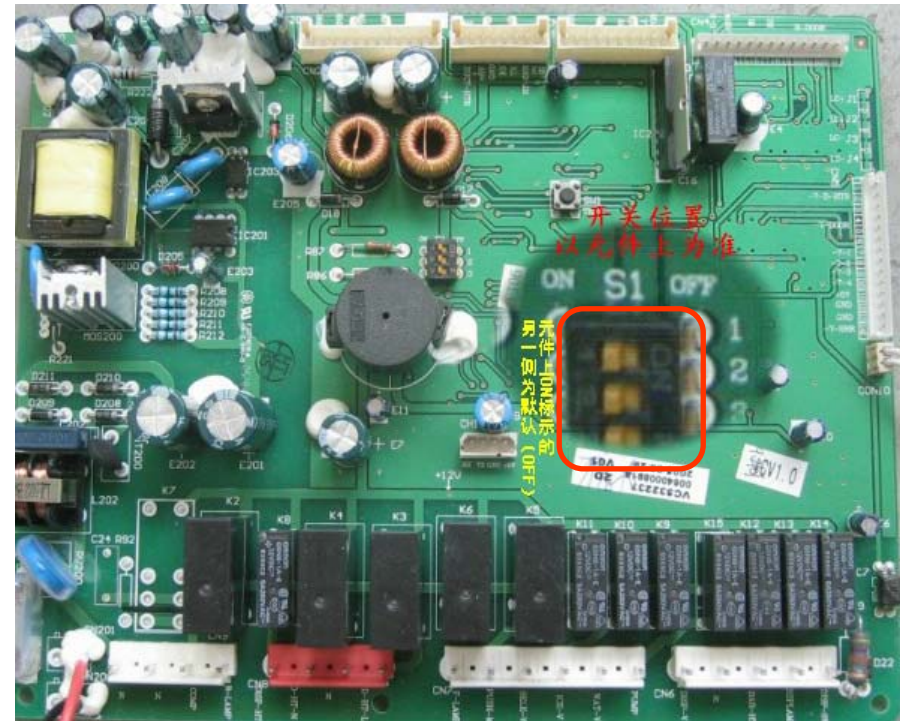
After ice-maker closed



functions

- ⑧ Adjust the water timing
- In case of leakage, stick together of ice cubes or over-size ice cubes, the water volume is more than necessary. Change the timing.
 - Adjust the button on the main control board, follows is a comparison of timing and parameter.

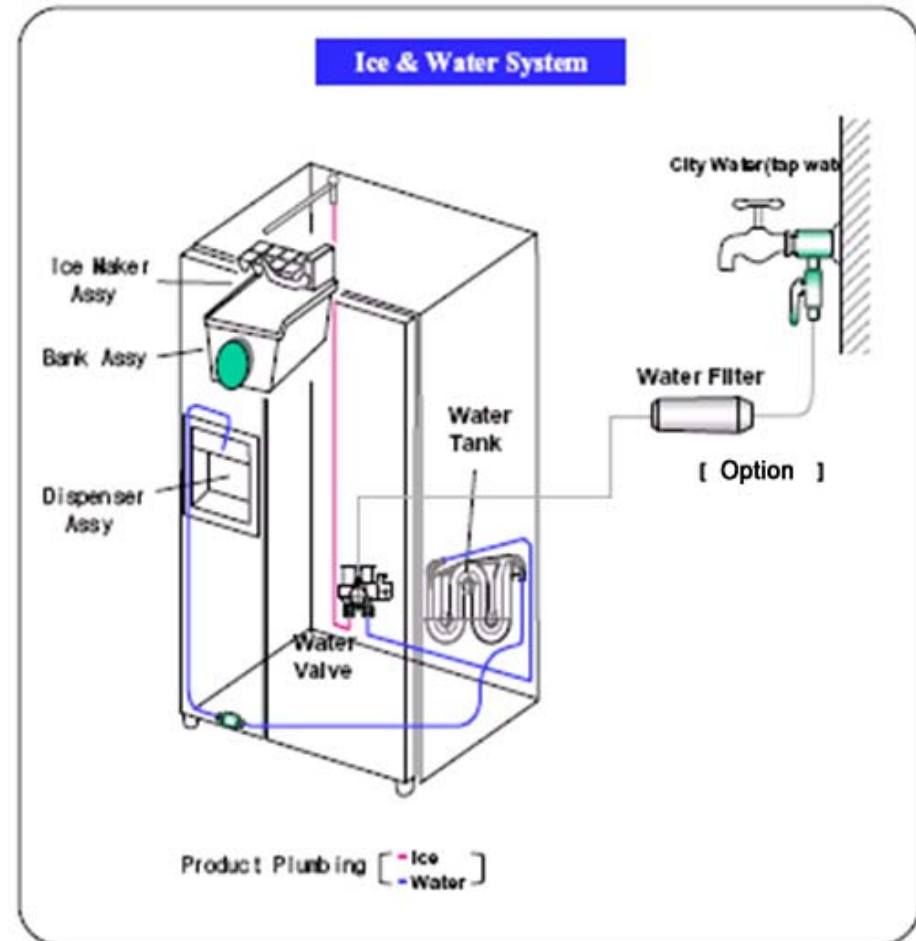
No.	parameter			timing	remark
	S1	S2	S3		
1	OFF	OFF	OFF	6sec	Volume is 80-120cc。
2	ON	OFF	OFF	3.5sec	
3	OFF	ON	OFF	4.0sec	
4	ON	ON	OFF	5.0sec	
5	OFF	OFF	ON	5.5sec	
6	ON	OFF	ON	6.0sec	
7	OFF	ON	ON	7.0sec	
8	ON	ON	ON	8sec	



Functions

6、 Scenograph of water supply system :

water runs through water drain pipe, and be divided into two ways: one way goes to water bottle of freezing room and then comes out through water dispenser. The other goes through pipe at the back of refrigerator and into ice-maker.



Functions

7、 About testing function :

- ① With self-testing function, the appliance can quickly check the working condition of fan, compressor and defrost heater.
- ② How to enter and quit: press the test button on the main control board once, and enter the forced starting mode, and a second time to enter forced defrosting mode.

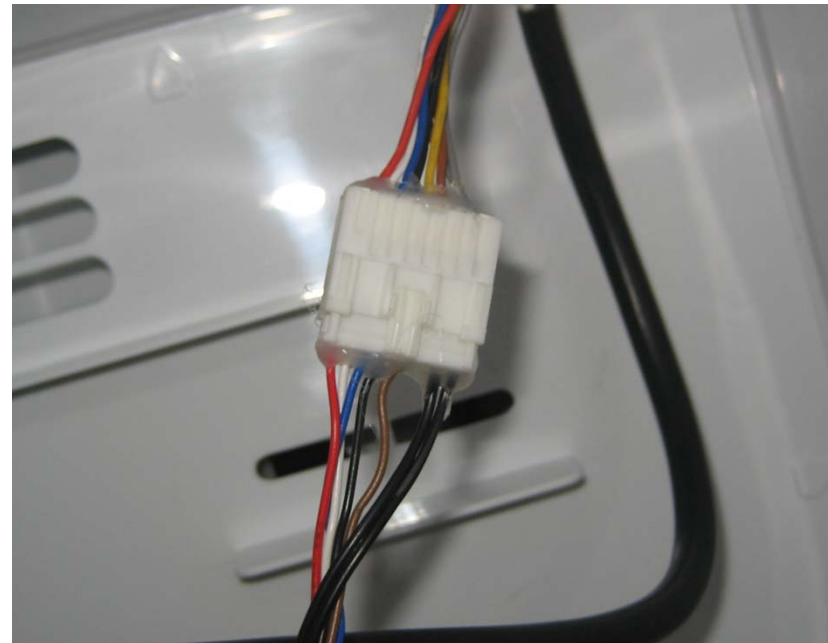
MODE	OPERATION	WORKING CONDITION	REMARKS
TEST1	Press test button once to enter forced starting mode.	1) compressor forced start. 2) freezing fan work at a high speed. 3) refrigerating fan work 4) heater shut down 5) air escaper opens	Press test button two times to quit this mode.
TEST2	Under test 1 and press test button again to enter forced defrost mode.	1) compressor shut down 2) no fan works 3) Defrost heater works 4) air escaper closes	Press test button one time to quit this mode.
Resume normal mode	Press test button for a third time.	Resume to normal mode and the compressor will start in 7 minutes.	

7. Inspection of familiar fault—ice-maker

- Fault 1 : no ice-making ;
- Steps of test :
- 1) test the temperature of freezing room reaches the set temperature.
- 2) see if the ice-maker is shut down
- 3) press the test button on the main control board for 3 seconds, enter the testing mode to see if the ice-maker can turn over.
- 4) if unable to turn over, disconnect the joint of ice-maker to see if there is any water, rust or corrupt. Clean the joint parts and assemble it, enter the testing mode again make sure the ice-maker can turn over.
- 5) If the ice-maker still can not turn over, use a multimeter to check if every wire from CN3 on the main control board to the ice-maker in freezing room is ok. If wire connection is normal, this may be caused by fault of ice-maker of main control board. Use a new spare part .
- 6) If the ice-maker can turn over, check the water valve, connect the valve to a 220 voltage AC power, if the valve can open, that means the valve is ok. If not, this means the valve is wrong.
- 7) If the valve is normal and the water can run into the ice-maker under testing mode, then check the sensor of ice-maker.

Inspection of familiar fault—ice-maker

- Fault 2 : third bar of freezing glitters
- steps :
- 1) third bar of freezing glitters means the fault of sensor of ice-maker. Check the joint of ice-maker, make sure there is no water, rust or corrupt. If there is any, clean the joint and reconnect.
- 2) check CN3 on the main control board is connect rightly, make sure no wire out of place.
- 3) check the ice-maker sensor.
- 4) check the two grey wires between CN3 and ice-maker are through.



Inspection of familiar fault—ice-maker

- Fault 3 : no crushed ice
- steps :
- 1) open the freezing door, make sure the selecting bar under the storage box is good shape or not stick into the selecting valve.
- 2) disassemble the ice storage box, make sure the ice blade is in fine shape.



Inspection of familiar fault—ice-maker

- Fault 4 : no ice cube ;
- steps :
- 1) open the freezing door, make sure the selecting bar under the storage box is good shape or not stick into the selecting valve.
- 2) disassemble the ice storage box, check if the ice cubes are stick together. If so, shorten the watering time.
- 3) set the appliance under ice cube condition, open the freezing door and press the freezing light button and dispenser button. See if the selecting valve works or not. If not, disassemble the delivery motor to see if the plug-in of selecting valve is in place, or the wire of selecting valve is in good shape.



Inspection of familiar fault—ice-maker

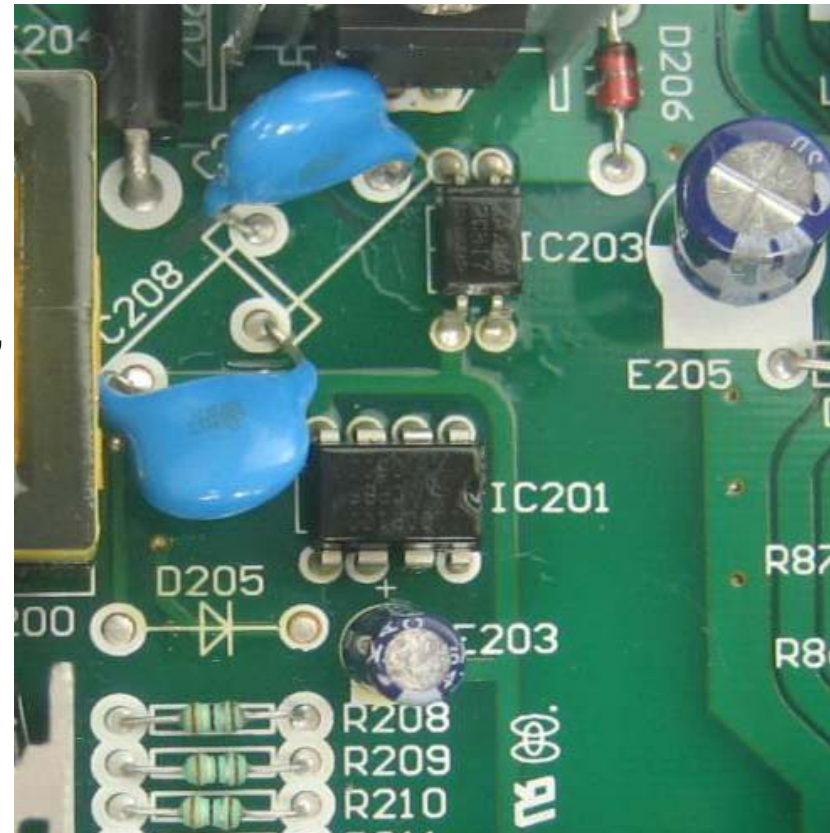
- Fault 5 : noise of ice-maker ;
- steps :
- Enter the test mode of ice-maker, see if the ice-maker touches the water pipe when turns over. If so, disassemble the ice-maker, move it forward a little and re-fix it.
- See if there is loud noise when ice-maker turns over, if so, there might be a fault of ice-maker itself.
- See if the ice box touches the hinge when turns over, or the shape of hinge is destroyed. If so, check and make sure the hinge is fixed properly.

Familiar fault testing method - electro-air escaper

- Fault 1 : refrigerating temperature is too low, food frozen.
- Steps:
- Press the refrigerating adjust button for more than 3 seconds, until the light turns off, which means refrigerating room is shut down.
- Open the refrigerating door, see if there is cool water near the air-escaper.
- If there is no cold air blows out, test the resistance of refrigerating sensor R1 is normal.
- If there is little cold air blows out, disassemble the refrigerating air-escaper, test the foamed assemble of air-escaper and the appliance is sealed properly, or the seal is damaged.
- Disassemble the foamed assemble of air-escaper, make sure the air-escaper and the foaming material is sealed properly.
- Test the sheet of air-escaper can be closed well, if not, stick sensor R1, open and close the refrigerating room, check if the sheet of air-escaper can be closed properly.
- If the sheet of air-escaper does not move, use a multimeter to test wire(of the same colour) between the plug in of air-escaper and CN4 on the main control board is through. If the wire is through, the fault may be in the air-escaper or on the main control board. Use a new spare part .

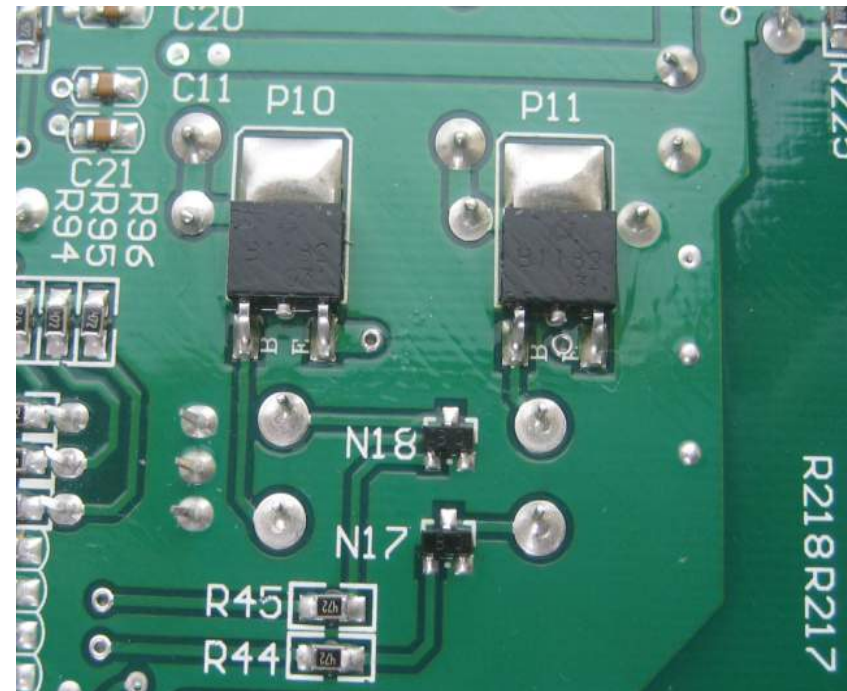
Testing method of control panel—main board

- Fault1 : no display, no start-up ;
- steps :
- Check the power cable is normal ;
- Disassemble the display board and freezing door upper hinge, check the display board is connected correctly.
- Open the control board cover and check if there is any voltage input on main board, if no, check the rejector board fuse is normal.
- Use a multimeter to check the D202 diode on the board is normal. Check IC201 is normal , the method is to measure the pressure fall between the 4th and 8th foot of IC201 using the diode mode of a multimeter. When the result is between 0.5~0.7V (forwards and backwards), that means IC201 is knocked down.
- If all the above result is normal, then the chip of control board is broken.

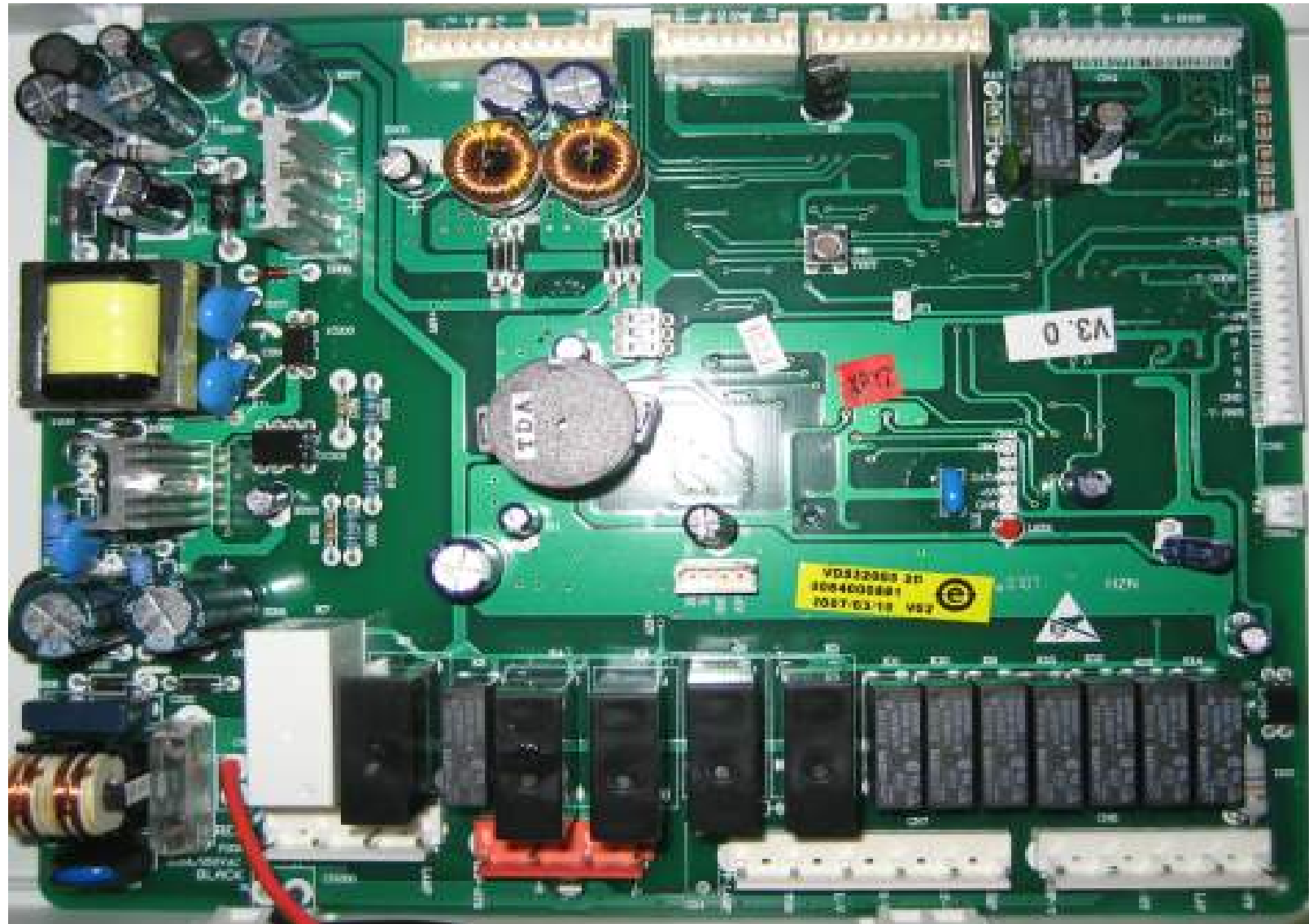


Testing method of control panel—main board

- Fault 2 : failure of freezing air escaper
- steps :
- Open the freezing door, press the freezing bulb button, to see if the fan works.
- Open the main board cover, press the test button, enter forced start-up mode to see if the fan works, if not, check the CN2 control panel and freezing fan joint is normal or not.
- Disconnect control panel, use a multimeter to see audion P 10 is normal



8. Testing method of control panel



9. Comparison of temperature and sensor resistance

Resistance diagram of refrigerating sensor Unit: KΩ Floating: 2%

Temperature	Lower limit	Benchmark	Upper limit		Lower limit	Benchmark	Upper limit	Temperature
-30	31.36	33.07	34.86		20	2.352	2.446	2.543
-29	29.58	31.16	32.81		21	2.247	2.339	2.434
-28	27.91	29.37	30.89		22	2.147	2.237	2.330
-27	26.35	27.69	29.09		23	2.052	2.140	2.231
-26	24.88	26.12	27.40		24	1.962	2.047	2.136
-25	23.50	24.64	25.82		25	1.876	1.960	2.046
-24	22.20	23.25	24.34		26	1.794	1.876	1.961
-23	20.99	21.95	22.95		27	1.717	1.796	1.879
-22	19.84	20.73	21.65		28	1.643	1.721	1.802
-21	18.76	19.58	20.43		29	1.573	1.649	1.727
-20	17.75	18.50	19.28		30	1.506	1.580	1.657
-19	16.79	17.49	18.20		31	1.442	1.514	1.590
-18	15.90	16.54	17.19		32	1.381	1.452	1.525
-17	15.05	15.64	16.24		33	1.324	1.392	1.464
-16	14.26	14.80	15.35		34	1.269	1.336	1.405
-15	13.51	14.00	14.51		35	1.216	1.281	1.350
-14	12.80	13.25	13.72		36	1.166	1.230	1.296
-13	12.13	12.55	12.98		37	1.119	1.181	1.245
-12	11.51	11.89	12.28		38	1.073	1.134	1.197
-11	10.91	11.27	11.62		39	1.030	1.089	1.150
-10	10.36	10.68	11.00		40	0.988	1.046	1.106
-9	9.828	10.12	10.42		41	0.949	1.005	1.063
-8	9.331	9.60	9.874		42	0.911	0.966	1.023
-7	8.861	9.108	9.357		43	0.875	0.928	0.984
-6	8.418	8.643	8.870		44	0.841	0.892	0.947
-5	7.999	8.204	8.411		45	0.808	0.858	0.911
-4	7.603	7.790	7.978		46	0.777	0.826	0.877
-3	7.228	7.398	7.569		47	0.747	0.794	0.845
-2	6.874	7.029	7.184		48	0.718	0.764	0.813
-1	6.540	6.680	6.820		49	0.691	0.736	0.783
0	6.223	6.350	6.477		50	0.664	0.708	0.755
1	5.911	6.038	6.165		51	0.639	0.682	0.727
2	5.617	5.743	5.870		52	0.615	0.657	0.701
3	5.339	5.464	5.590		53	0.592	0.633	0.676
4	5.076	5.201	5.326		54	0.570	0.610	0.652
5	4.828	4.951	5.075		55	0.549	0.588	0.629
6	4.593	4.714	4.837		56	0.529	0.567	0.606
7	4.370	4.491	4.612		57	0.510	0.546	0.585
8	4.160	4.279	4.399		58	0.491	0.527	0.565
9	3.961	4.078	4.196		59	0.473	0.508	0.545
10	3.772	3.887	4.004	Temperature	60	0.456	0.490	0.526
11	3.504	3.707	3.822	e	61	0.440	0.473	0.508

Comparison of temperature and sensor resistance

Resistance diagram of freezing sensor Unit: KΩ Floating: 2%

Temperature	Lower limit	Benchmark	Upper limit	Temperature	Lower limit	Benchmark	Upper limit
-30	32.78	33.84	34.920	16	2.826	2.992	3.167
-29	30.92	31.88	3286%	17	2.697	2.858	3.027
-28	29.17	30.04	30.930	18	2.574	2.730	2.894
-27	27.53	28.32	29.120	19	2.457	2.609	2.768
-26	25.99	26.7	27.420	20	2.346	2.493	2.648
-25	24.54	25.19	25.840	21	2.241	2.384	2.534
-24	23.18	23.77	24.350	22	2.141	2.280	2.426
-23	21.91	22.43	22.960	23	2.047	2.180	2.322
-22	20.71	21.18	21.650	24	1.956	2.086	2.224
-21	19.58	20	20.430	25	1.871	1.997	2.130
-20	18.52	18.9	19.280	26	1.789	1.911	2.041
-19	17.49	17.86	18.240	27	1.712	1.830	1.956
-18	16.51	16.89	17.260	28	1.638	1.753	1.875
-17	15.60	15.97	16.340	29	1.568	1.679	1.798
-16	14.74	15.11	15.480	30	1.501	1.609	1.724
-15	13.93	14.3	14.660	31	1.437	1.542	1.654
-14	13.17	13.53	13.900	32	1.377	1.478	1.587
-13	12.46	12.81	13.170	33	1.319	1.418	1.523
-12	11.79	12.14	12.490	34	1.264	1.360	1.462
-11	11.16	11.5	11.850	35	1.212	1.304	1.404
-10	10.56	10.9	11.240	36	1.162	1.252	1.348
-9	10.01	10.33	10.670	37	1.114	1.201	1.295
-8	9.479	9.800	10.130	38	1.069	1.153	1.244
-7	8.982	9.296	9.618	39	1.026	1.108	1.196
-6	8.514	8.821	9.136	40	0.984	1.064	1.149
-5	8.073	8.373	8.681	41	0.945	1.022	1.105
-4	7.657	7.950	8.251	42	0.907	0.982	1.063
-3	7.265	7.551	7.844	43	0.871	0.944	1.022
-2	6.895	7.173	7.460	44	0.837	0.908	0.984
-1	6.546	6.817	7.097	45	0.804	0.873	0.947
0	6.216	6.480	6.733	46	0.773	0.839	0.911
1	5.905	6.162	6.427	47	0.743	0.808	0.877
2	5.610	5.861	6.119	48	0.714	0.777	0.845
3	5.332	5.576	5.828	49	0.687	0.748	0.814
4	5.070	5.306	5.552	50	0.661	0.720	0.784
5	4.821	5.051	5.290	51	0.636	0.693	0.755
6	4.586	4.810	5.042	52	0.612	0.668	0.728
7	4.364	4.581	4.807	53	0.589	0.643	0.702
8	4.154	4.365	4.584	54	0.567	0.620	0.677
9	3.955	4.160	4.373	55	0.546	0.597	0.653
10	3.766	3.965	4.173	56	0.526	0.576	0.630
11	3.588	3.781	3.983	57	0.507	0.555	0.607
12	3.419	3.606	3.802	58	0.488	0.535	0.586

The End.

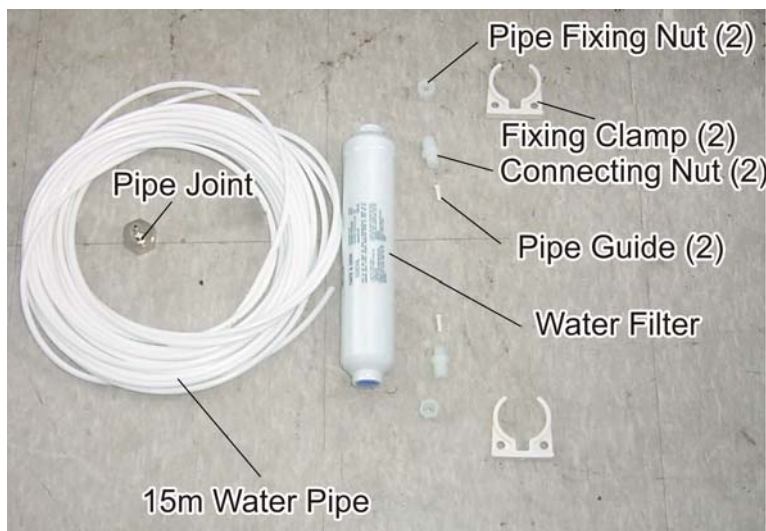
Please point out the mistakes in this book, we hope you can learn more about this model of refrigerator, and therefore your repairing skills will be better.

Operating Instruction of Water Pipeline Connection

The inlet pipeline components, which are accessories, include: water filter, connecting nuts, pipe fixing nuts, guide post, 15m PE water pipe, 4/3~1/4 adapter, etc. The packaged assembly is shown as follows and is kept in the vegetable box of a refrigerating chamber.



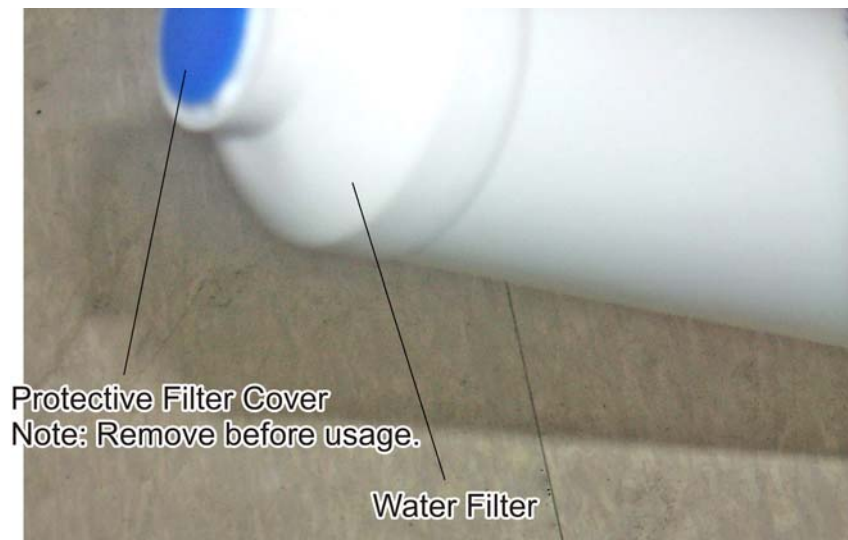
Designation, amount and picture of every part or component are given below and serve during on-site installation.



Water Pipeline Connection Instruction

Installation Procedure:

1. Take out the water filter.

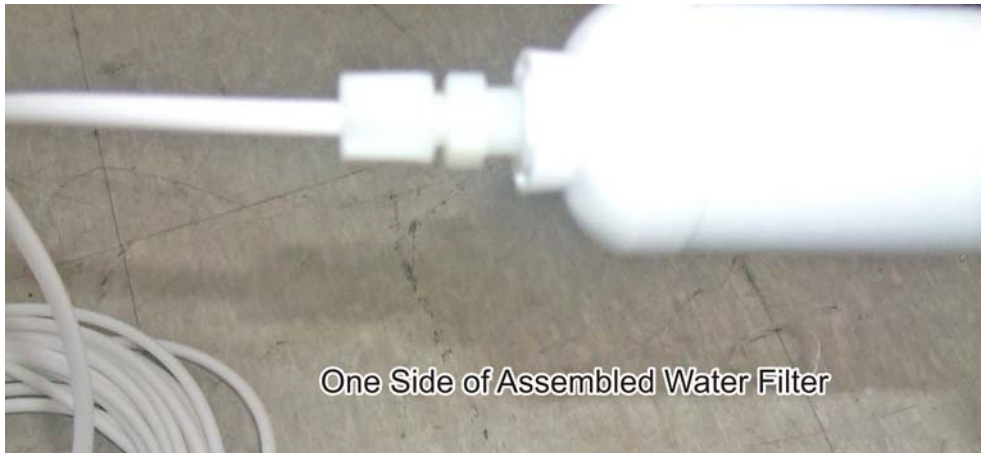


2. Dismount and discard the covers on both ends of the water filter.

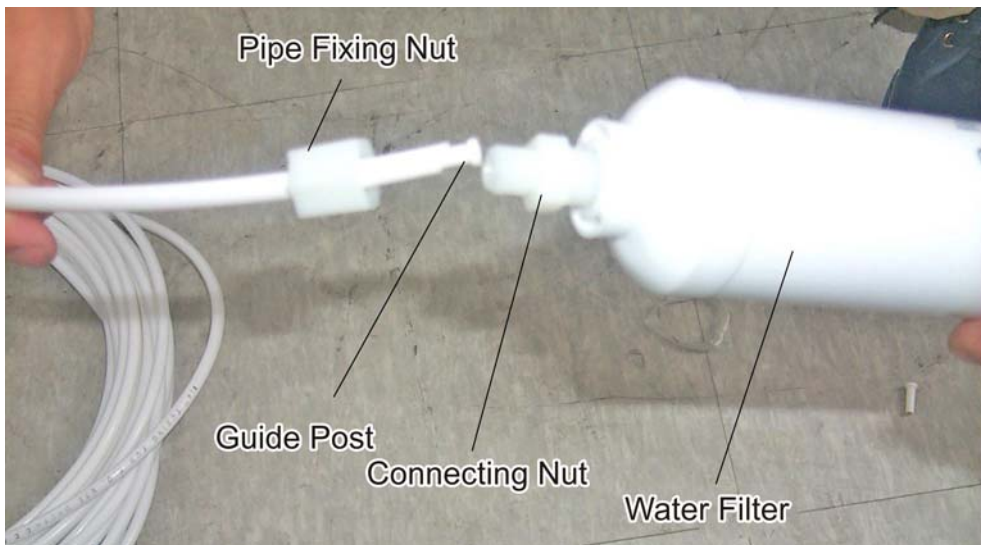


Water Pipeline Connection Instruction

3. Fix the wider side of connecting nut to the water filter; this procedure applies to both sides.

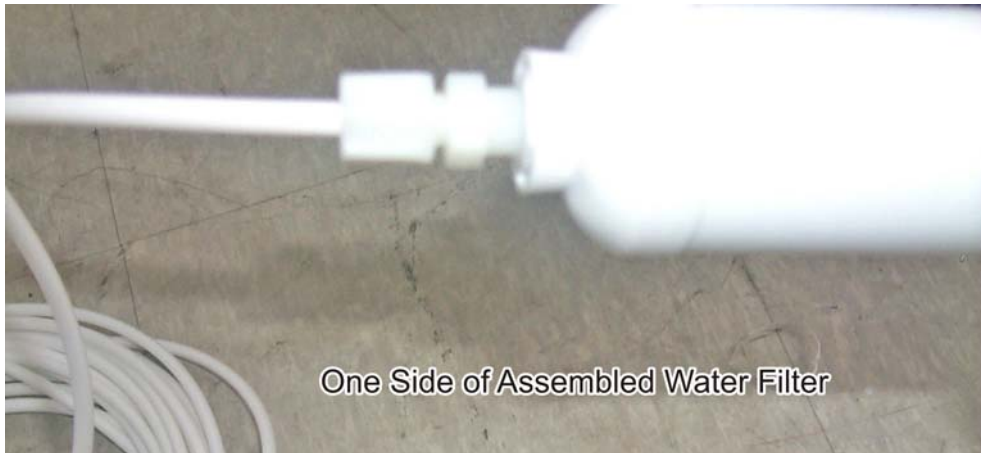


4. Insert the narrower side of guide post to $\Phi 6\text{mm}$ water pipe and let the cap project outside; then insert the pipe fixing nut into water pipe, as shown in following picture.



Water Pipeline Connection Instruction

5. Fix the pipe fixing nut to connecting nut, according to following picture, and fasten them.



6. Fix both sides of the water filter.

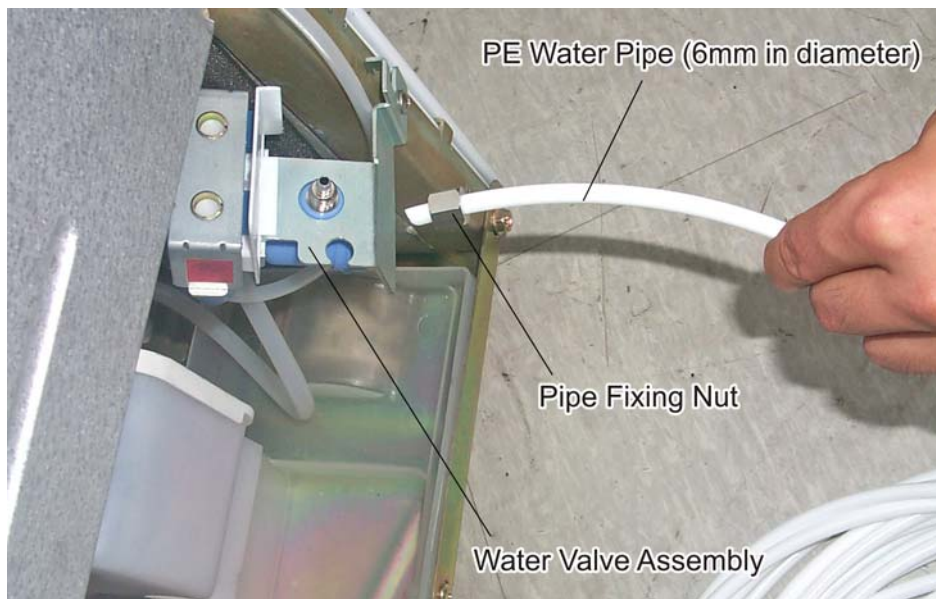


Water Pipeline Connection Instruction

7. Unscrew fixing nuts of the water valve at the back of refrigerator.



8. Insert $\phi 6\text{mm}$ PE pipe into the fixing nut.

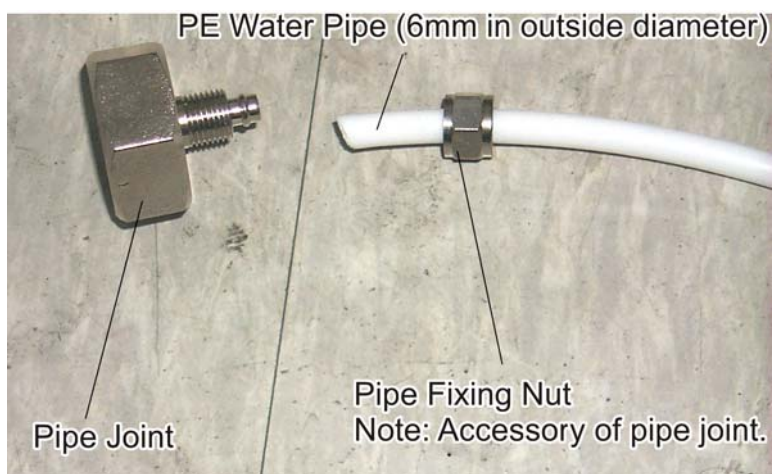


Water Pipeline Connection Instruction

9. Fix the $\Phi 6\text{mm}$ water pipe onto the water valve.



10. Insert $\Phi 6\text{mm}$ water pipe into pipe fixing nut and then revolve the pipe to fix it with the pipe joint.



Water Pipeline Connection Instruction

11. The effect of fixed pipe components is shown as follows.



Water Pipeline Connection Instruction

12. Position the fixing clamp according to following picture to the wall or a desired place, and then fix it with screw.

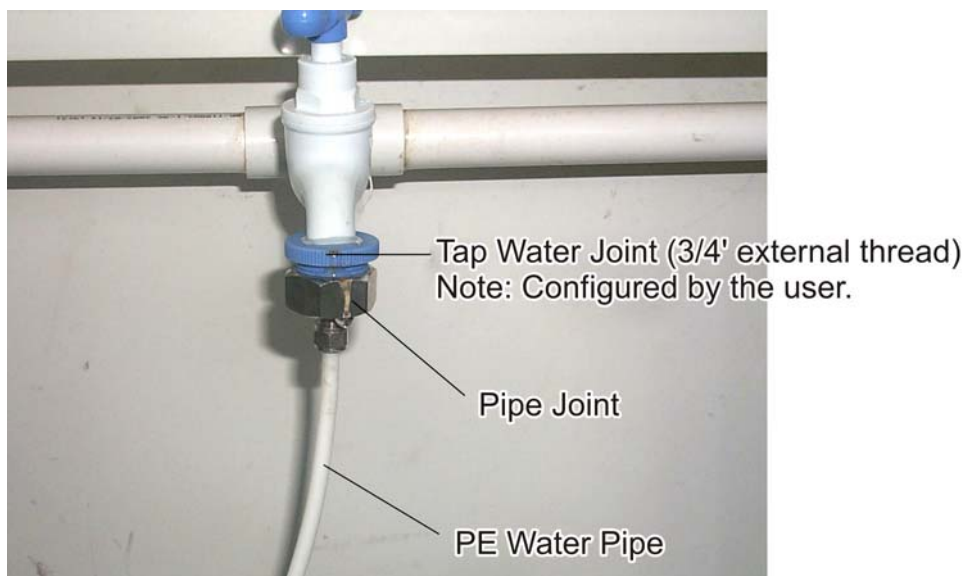


13. Fix the water filter onto the fixing clamp and fasten the filter.



Water Pipeline Connection Instruction

14. Fix the 3/4' internal thread end of pipe joint to the outlet end of water supply; the outlet of supply is required to have 3/4' external thread. For the connection with accessory pipe joint, the user may choose household 3/4' external thread tap, 3/4' external thread joint/adaptor, etc., as long as the tap water outlet can be correctly connected to the accessory 3/4' internal thread pipe joint and perfectly sealed.



15. During long suspension of ice maker or cool drink function, please turn off the water tap.

16. The water filter is not able to sterilize microbes and bacteria in tap water, but can eliminate impurity ions and absorb the residual chlorine. Therefore only tap water allowing direct drinking can be introduced to the refrigerator.

Specification of tap water health: In international standards the total bacteria number and the number of coliform group both stand at zero, and this applies to all Western countries in Europe and America and in this way the tap water allows direct drinking.

We recommend that the water filter is changed every 5 years.

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