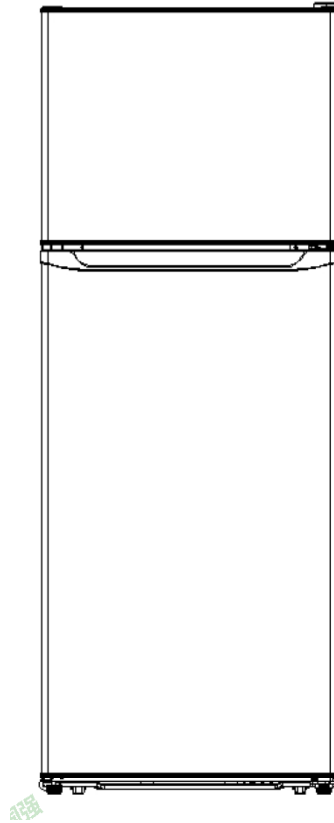


After-sales Service Manual

Two-door air-cooled refrigerator

BDA12GLA



Contents

1. Notes.....	1
2. Product parameters.....	2
2.1 Structural parameters.....	2
2.2 Product installation size parameters.....	2
2.3 Performance parameters.....	3
2.4 Electrical parameters.....	6
3. Operating instructions and installation matters.....	7
3.1 Set the temperature.....	7
3.2. Fault prompt.....	7
3.3 Test mode.....	8
3.4 Post-sale defrosting mode.....	9
3.5. Self-check mode.....	10
4. Disassembly and reassembly.....	11
4.1. Door seal strips.....	11
4.2 Freeze the door.....	11
4.3. Refrigerated door.....	12
4.4. Lower hinges.....	12
4.5. Chilled air duct.....	13
4.6. Chilled air duct.....	14
4.7. Refrigerated evaporator.....	14
4.8. Electrical box.....	15
4.9. Compressor.....	15
5. Fault diagnosis.....	16
5.1. No power.....	16
5.2. The compressor doesn't work properly.....	17
5.3. The refrigerator does not cool or does not cool properly.....	18
5.4. Noise fault.....	19
5.5. Sensor failure.....	20
5.6. The fan is not working.....	21
5.7. The refrigerated lighting is not working.....	22
5.8. Defrosting heating tubes don't work.....	23
6. Explosion diagram with parts list.....	24
6.1. BCD-280WEV explosion diagram.....	24
6.2. Chilled air duct components.....	错误!未定义书签。
6.3. Chilled air duct components.....	错误!未定义书签。
7. Electrical appliances and controls.....	26
7.1 Wiring diagram.....	26
7.2. Schematic diagram of the power board.....	27
7.3. Schematic of the display board.....	27
7.4 Photographs and layout of the power board.....	28
7.5 Photos and layout of the display board.....	29
7.6. Temperature sensor.....	30
7.7. Door switch control circuit.....	33
7.8. Fan control circuit.....	34

1. Precautions

- When repairing the refrigerator, disconnect the power supply of the refrigerator.
 - Avoid electric shock.
- Replace with appropriate components when repairing.
 - Check the model, rated voltage, rated current and operating temperature of the components.
- When repairing, make sure the wires are securely fastened to prevent them from being exposed to water.
 - The purpose of tying up the wires is to prevent them from being damaged by external force.
- After the repair, it is necessary to thoroughly remove dust and particles from the electrical components.
 - Primarily to prevent short circuits from causing fires.
- Check live parts for water marks and water seepage.
 - If water marks are found, replace the components or take necessary measures, such as sealing with insulating tape.
- After the repair, it is necessary to check if the refrigerator is fully assembled
 - Make sure the refrigerator looks and performs intact.
- Check where your refrigerator is placed.
 - Make sure your refrigerator works properly and lasts long.
- If necessary, keep the refrigerator grounded.
 - Ensure the safety of personnel using the refrigerator.
- Users are prohibited from plugging the refrigerator into sockets (power strips) for multiple electrical appliances.
 - High-power appliances like refrigerators should use separate sockets (power strips).
- After repair, check if the wires are worn out, causing the core to be exposed.

-- Repair damaged wires and eliminate safety hazards.

- Do not store sealed bottles or similar items with glass bottles in the freezer; Do not force items into the refrigerator.
- Users are not allowed to repair the refrigerator themselves.
 - If the refrigerator malfunctions, it needs to be sent to the after-sales service point for repair.
- Do not store chemicals other than food, volatile substances or similar items in the refrigerator.

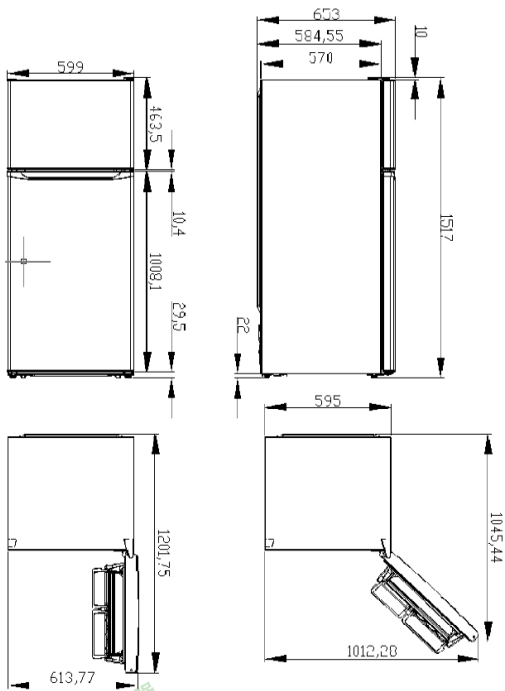
2. Product parameters

2.1 Structural parameters

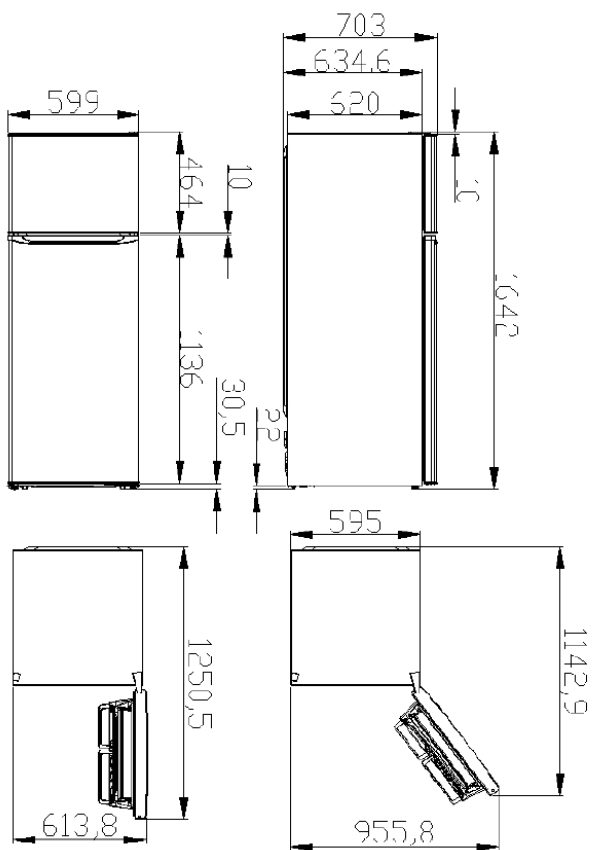
Model		BCD-280WEVPH	BDA12GLA
		Two-door all-air-cooled refrigerator	Two-door all-air-cooled refrigerator
Volume	Total volume (L)	283	340
	Refrigerated (L)	213	265
	Freeze (L)	70	75
Product size (width X depth X height)		599x653x1517	599x703x1647
Voltage and Frequency		220-240V/50HZ	220 ~ 240V/50HZ
Product weight	Net weight	56KG	63.5 KG
	Gross weight	61KG	70KG
Model		BDA12GLAJ	BCD-280WEVPH-D
		Two-door all-air-cooled refrigerator	Two-door all-air-cooled refrigerator
Volume	Total volume (L)	340	340
	Refrigerated (L)	265	265
	Freeze (L)	75	75
Product size (width X depth X height)		599x703x1647	599x651x1517
Voltage and Frequency		220-240V/50HZ	220 ~ 240V/50HZ
Product weight	Net weight	63.5 KG	62.5 KG
	Gross weight	70KG	69KG

2.2 Product installation size parameters

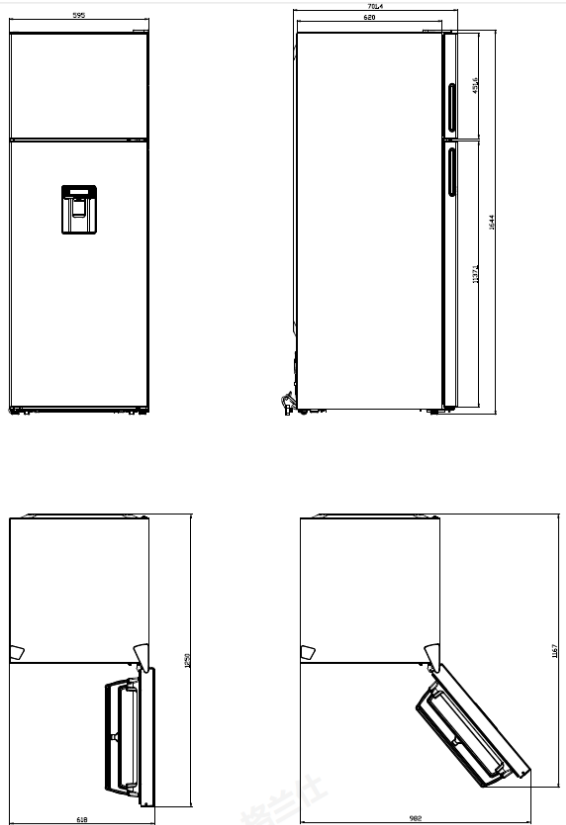
2.2.1 BDA12GLA



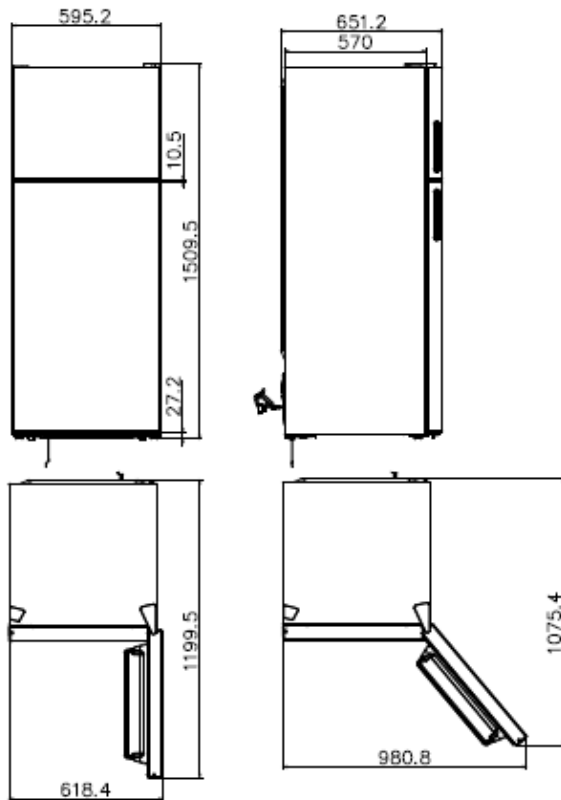
2. 2. 2 BDA12GLA



2. 2. 3 BDA12GLAJ



2. 2. 4 BCD-280 WEvPH-D



2. 3 Performance parameters

Contents		Parameters
Model		BDA12GLA BDA12GLAJ
Compressor	Model	VFC70YT
	Cooling capacity /COP	Frequency conversion
	Startup mode	Frequency conversion
	Refrigerating oil	/
Evaporator	Freezing evaporator	Fin type
Drying filter		XH-9
Capillary tube		Refrigerated capillary: Pressure ratio 7:4.8 specification 1.8x0.7mm
Refrigerant		35(g)/R600a
	Refrigerator compartment	0 °C - 8 °C
Defrosting sensor	Refrigerated evaporator	Reset the sensor ≥ 10 °C defrosting ends

2.4 Electrical parameters

Contents		Parameters
Model		BDA12GLA BDA12GLAJ
Voltage and Frequency		115V/60Hz
Rated power of the compressor		115W
Starter	Model	Inverter
	Maximum current	/
Protector	Model	Inverter
	Operating current	/
	Operating temperature	/
Freeze defrosting heating tubes		AC115 170W
Freezing fan		DC 12V 110mA
Refrigerated lighting		DC12V 40mA 0.5W

3 Instructions for operation and installation

3.1 Set the temperature

3.1.1. Refrigerator compartment

The temperature of the refrigerator compartment is manually adjusted through the control panel. The higher the gear number on the control panel, the lower the set temperature. The temperature adjustment range is 7 ° C to 1 ° C. Press the "SET" key briefly to increase the gear by one level. When it reaches the highest level, press it briefly again to return to the lowest level, as shown in Figure 1-1.



Figure 1-1

3.1.2 Freezer compartment

The freezer temperature is adjusted by turning the manual damper. If you want to lower the set temperature, turn the knob towards "COLDER" and vice versa, turn the knob towards "COLD" as shown in Figure 1-2.

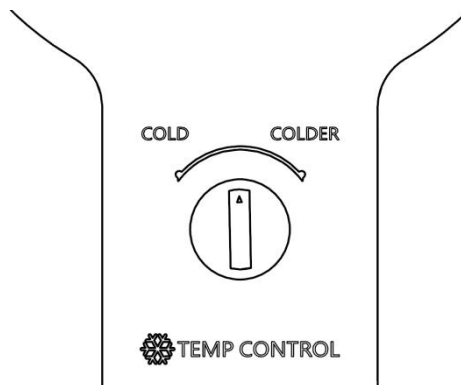


Figure 1-2

3.2. Fault Prompt

The refrigerator detects its own operation in real time. If a fault occurs, the LED at the corresponding position on the operation panel flashes to alert the user of the fault information. The positions of the leds corresponding to various faults are as follows:

1. The temperature in the refrigerator compartment is too high: the current position LED;
2. Refrigeration sensor failure: LED1 and LED2, as shown in Figure 2-2;

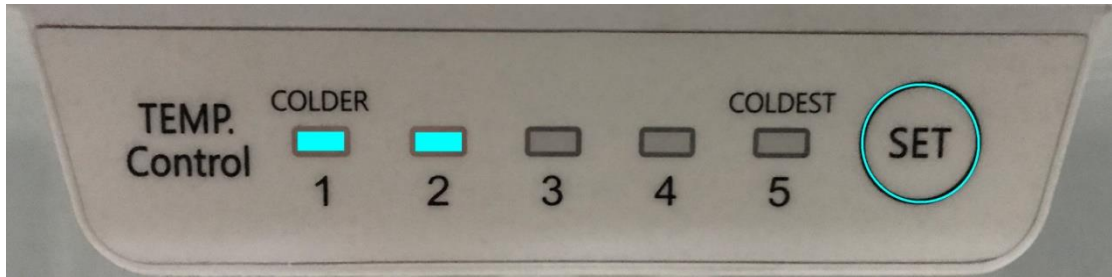


Figure 2-2

3. Defrosting sensor failure: LED2 and LED3, as shown in Figure 2-3;

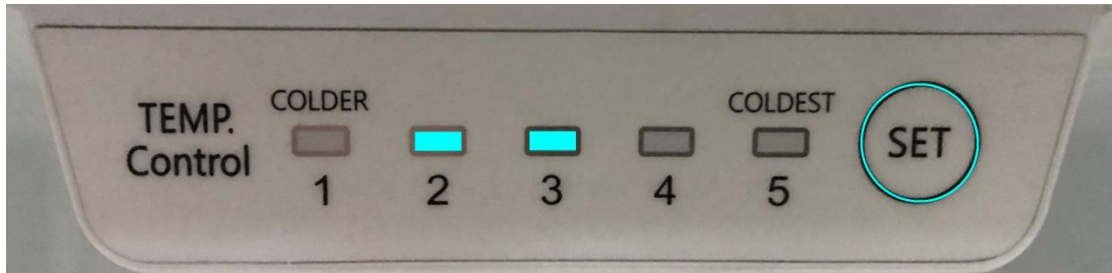


Figure 2-3

4. Fan failure: LED3 and LED4, as shown in Figure 2-4;

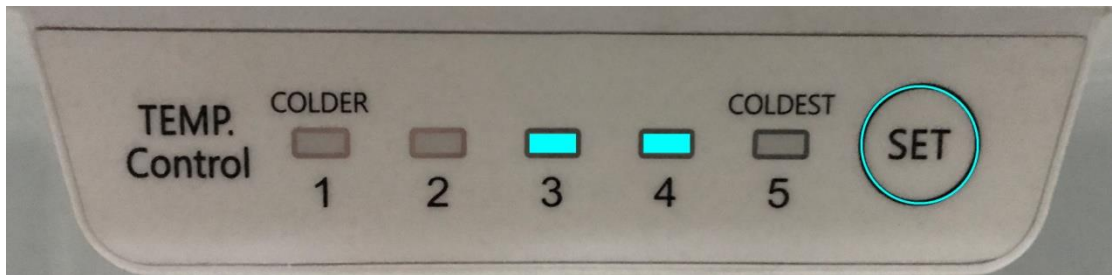


Figure 2-4

4. Ring temperature sensor failure: LED4 and LED5, as shown in Figure 2-5;

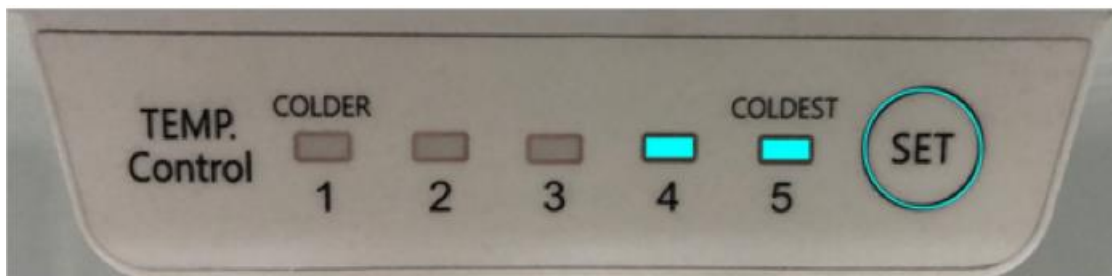


Figure 2-5

3.3 Test mode

When a fault prompt appears in the refrigerator, you can use the refrigerator test mode to further investigate the cause of the fault.

1. Access method:

SHORT press the "Short" button on the power board to enter test mode.

In test mode, any fault prompts are blocked and the compressor and fan keep running.

2. Exit method:

(1) Press the "SHORT" key briefly;

(2) Automatically exit after running for 72 hours;

Note: After exiting, enter normal operation mode.

3. Special circumstances:

The test mode status can enter the after-sales defrosting mode. For details, please refer to Section 3.4.

3.4. Post-sale Defrosting mode

When a fault prompt appears on the refrigerator, you can use the post-sale defrosting mode to further investigate the cause of the fault.

1. Access method:

Press and hold the "DFE" button on the power board for 5 seconds to enter after-sale defrosting mode.

Defrosting control steps: Defrosting --> Standby --> Forced power --> Normal operation

Categorization	Defrosting	Standby	Forced startup
Compressor	OFF	OFF	ON
Refrigeration fan	OFF	OFF	ON
Defrosting heating tubes	ON	OFF	OFF
Control time	For the first 120 seconds, the defrosting heating tube is forcibly turned on. When the freezing defrosting sensor is above 10 degrees, it ends with a delay of 2 minutes and a maximum of 30 minutes	7 minutes	20 minutes
Notes	Exit 5 minutes when defrosting sensor fails		After 20 minutes, a new defrosting cycle starts timing and stops if the refrigeration temperature reaches the shutdown point

2 Exit method:

Exit automatically after the post-sale defrosting is completed.

Note: (1) In the post-defrosting mode, you can enter the test mode as described in Section 3.3.

After the after-sales defrosting mode is completed, it enters the normal operation mode.

3.5. Self-check mode

When a fault prompt appears in the refrigerator, you can use the refrigerator's self-check mode to further investigate the cause of the fault.

1. Access method:

Hold down the "SET" key for 5 seconds until all the leds light up to enter the self-check mode.

2. Exit method:

Exit automatically after completing the self-check.

3. Self-check program:

After entering the self-check, all loads except the compressor automatically shut off, and then the leds on the operation panel light up in the following order:

All leds are on for 2 seconds,

All leds off 2 seconds

LED1 to LED5 display software stage number 2 seconds,

LED1~LED5 shows software version number 2 seconds,

Then check the software in the order shown in the table below, while LED1~LED5 prompts the self-check steps:

Show order	Display functions	LED1~LED5	Notes
1	Refrigerated sensor	●●○○○	Flashes for 0.5 seconds when open or short circuit, and 2 seconds when normal
2	Defrosting sensor	○●●○○	Flashing at 0.5s when open or short circuit, and 2s when normal
3	Fan	○○●●○	Flickering at 0.5 seconds when running poorly and 2 seconds when normal
4	Ring temperature sensor	○○○●●	Flashing at 0.5s when open or short circuit, and 2s when normal
5	Refrigerated light	●●●○○	Power on for 2 seconds, display 2 seconds
6	Defrosting heating tube	○●●●○	Power on for 2 seconds, display 2 seconds
7	Press	○○●●●	Hold if previously powered on, connect if previously powered off, show 2s

After the above steps are completed, the self-check is finished. All leds will be off for 2 seconds and then automatically exit to the normal mode.

4. Disassembly and reinstallation

4.1. Door seal strips

A refrigerator door seal is an accessory used between the refrigerator door body and the box body for sealing, installed on the door lining.

- (1) Open the door.
- (2) Grab the PVC door seal from the corner and pull it outward away from the door lining.



Note: 1 Do not apply too much force to prevent tearing the door seal. 2. When removing the scale, hold the door steady to prevent injury or damage to the door.

4.2 Freeze the door

- (1) Pry open the upper hinged cover.
- (2) Loosen the upper hinge screws (3) with a cross-head screwdriver or an external hexagon socket and remove the upper hinge.
- (3) Hold the sides of the door body with both hands and lift it up gently to remove the door body.

Note: When removing, the door must be closed. To prevent the door from losing its fulcrum and tilting outward after removing the hinges, causing injury to people and damage to the door.



4.3 Refrigerated door

(1) Loosen the middle hinge screws (2) with a cross-head screwdriver or an external hexagon socket and remove the middle hinge.

(2) Hold the sides of the door body with both hands and lift it up gently to remove the door body.

Note: When removing, the door must be closed. Prevent the door from losing its fulcrum and tilting outward after the hinge during disassembly, causing injury to personnel and damage to the door.



4.4. Lower hinge

(1) Twist out the footrest.

(2) Loosen the screws (3) with a cross-head screwdriver or an external hexagon socket and remove the lower hinge.



4.5. Chilled air duct

- (1) Use a screwdriver to lift out the screw plugs on both sides in the direction shown.
- (2) Use a cross-head screwdriver to unscrew the mounting screws.
- (3) Insert the tool into the air duct opening and then pull out the air duct component.
- (4) Remove the fan terminal block.



4.6. Refrigerated air duct

- (1) Use a cross-head screwdriver to unscrew the mounting screws.
- (2) Remove the terminal block.

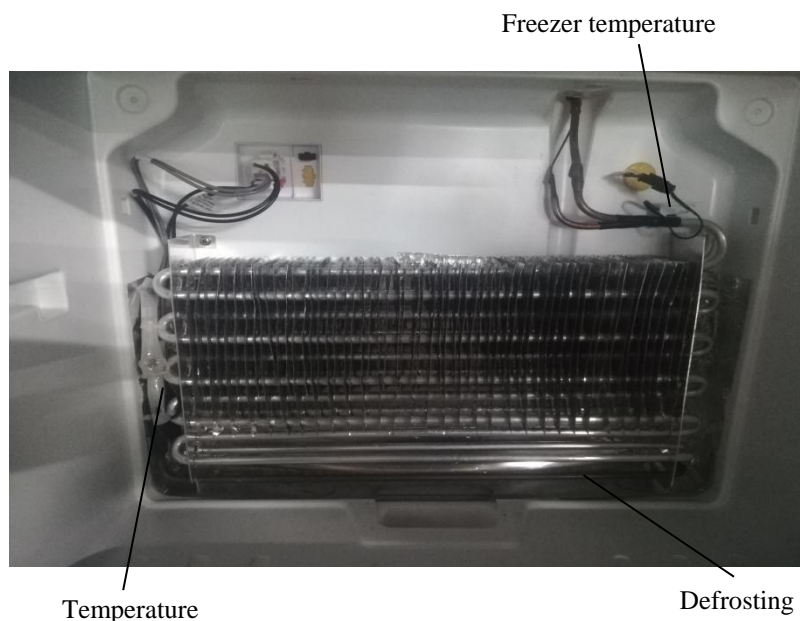


4.7. Refrigerated evaporator

- (1) Remove the chilled air duct cover plate component
- (2) Loosen all connection terminals.
- (3) Loosen the evaporator fixing screws (two).
- (4) Heat the two copper connection welds of the evaporator and melt the welds.
- (5) Remove the refrigeration evaporator.

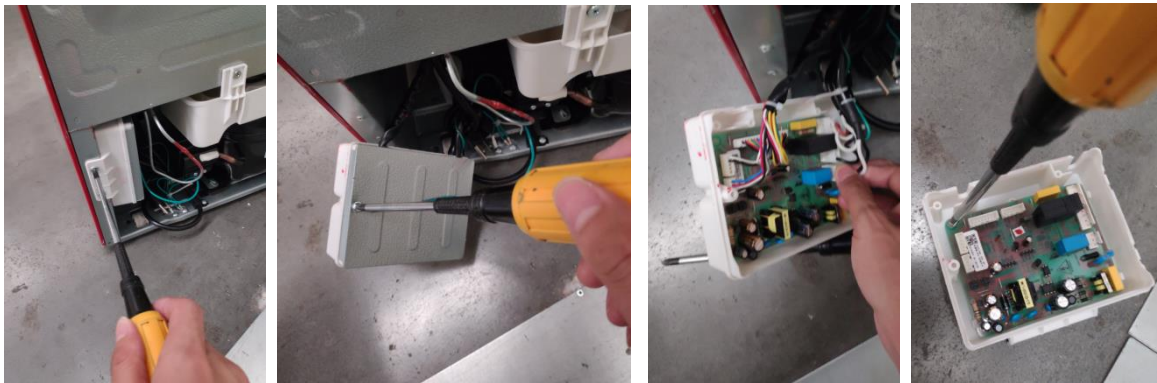
Note: The evaporator blades are sharp. It is recommended to wear gloves when operating.

Before operation, drain the system refrigerant and blow the system clean with nitrogen.



4.8. Electrical box

- (1) Use a screwdriver to remove the installation screws of the electrical box as shown.
- (2) Use a screwdriver to remove the installation screws for the electrical box cover as shown in the picture.
- (3) Remove the terminal block.
- (4) Remove the main control board.



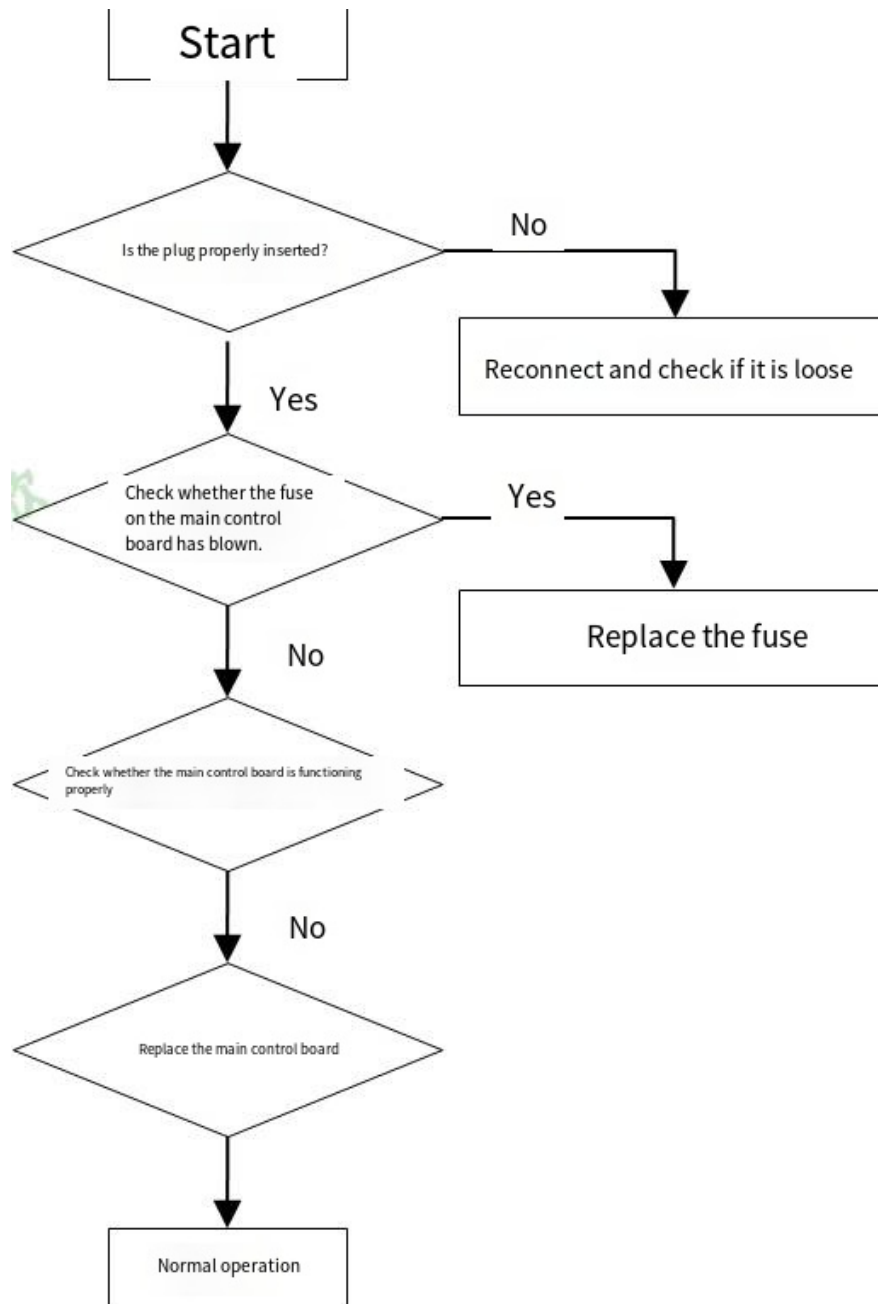
4.9. Compressor

- (1) Use a screwdriver to remove the evaporating dish component, taking care not to damage the defrosting water evaporating tube.
- (2) Use a screwdriver to remove the compressor control box and remove the starter and protector inside.
- (3) Use special pliers to cut the upper return pipe and exhaust pipe of the compressor.
- (4) Use pliers to rotate the hanging lugs on the bottom plate of the compressor so that they are parallel to the holes of the compressor pressure plate, remove the two compressor pressure plates, and the compressor can be removed.



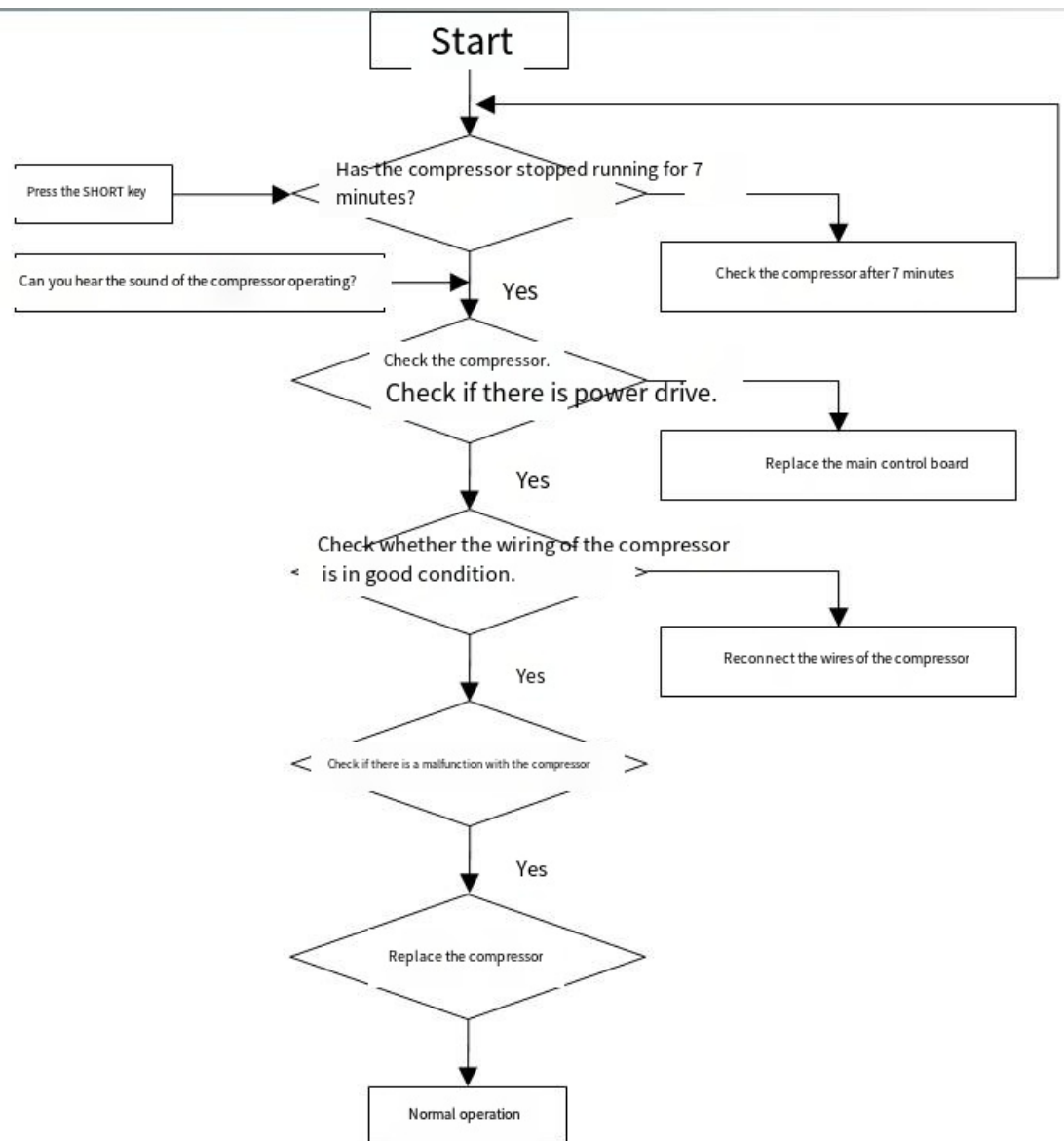
5. Fault Diagnosis

5.1. No power

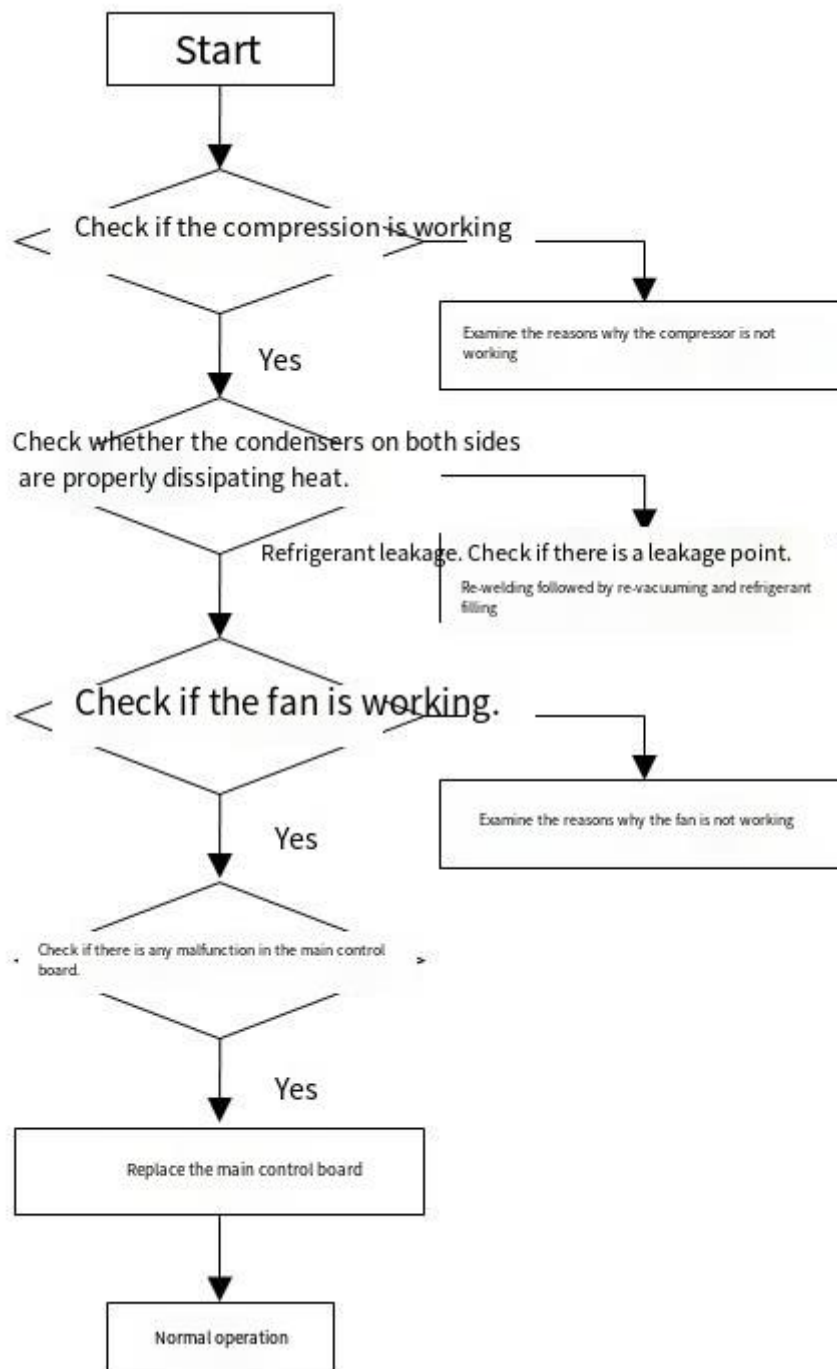


Note: When repairing the refrigerator, disconnect the power supply to avoid electric shock.

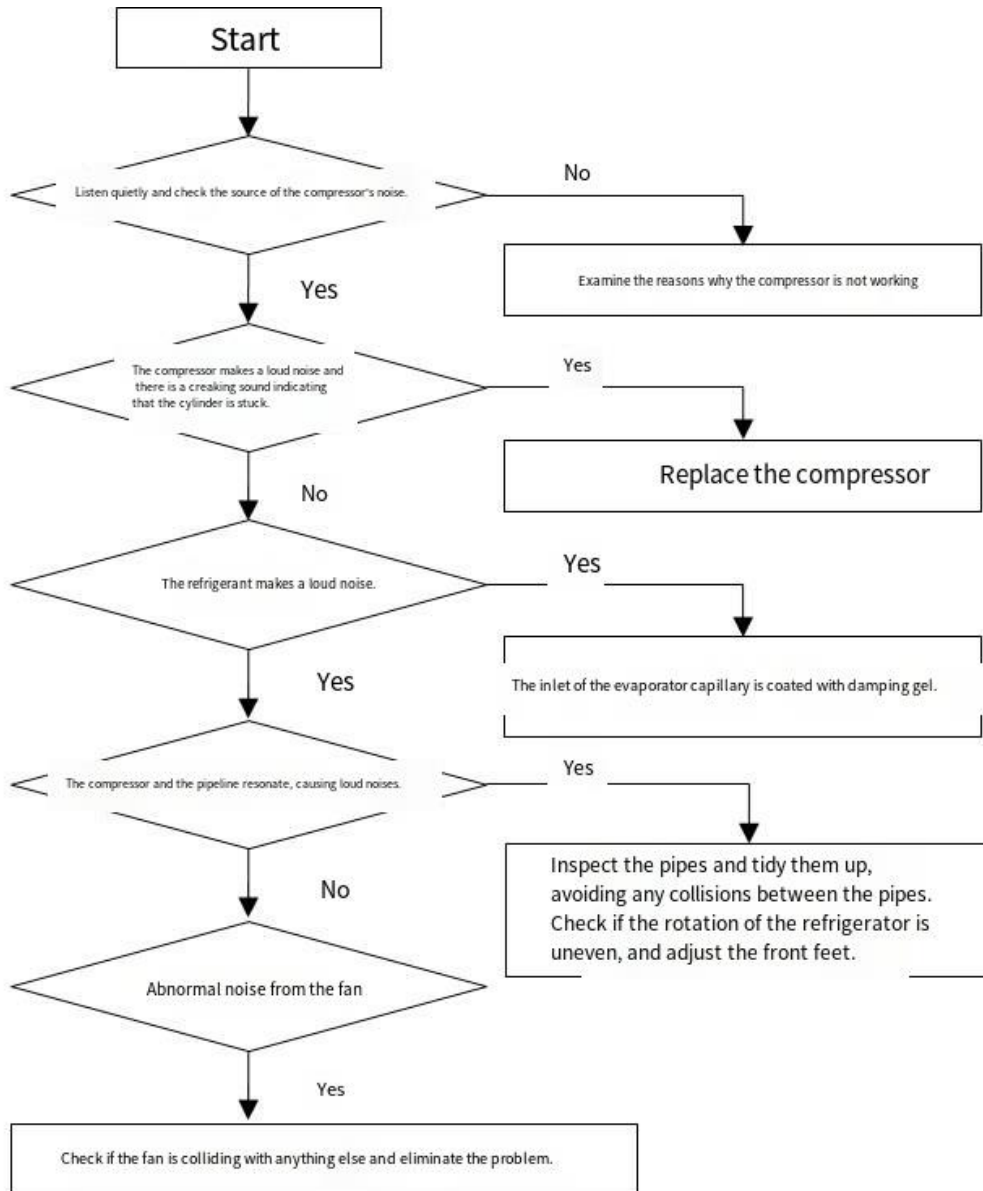
5.2. The compressor is not working properly



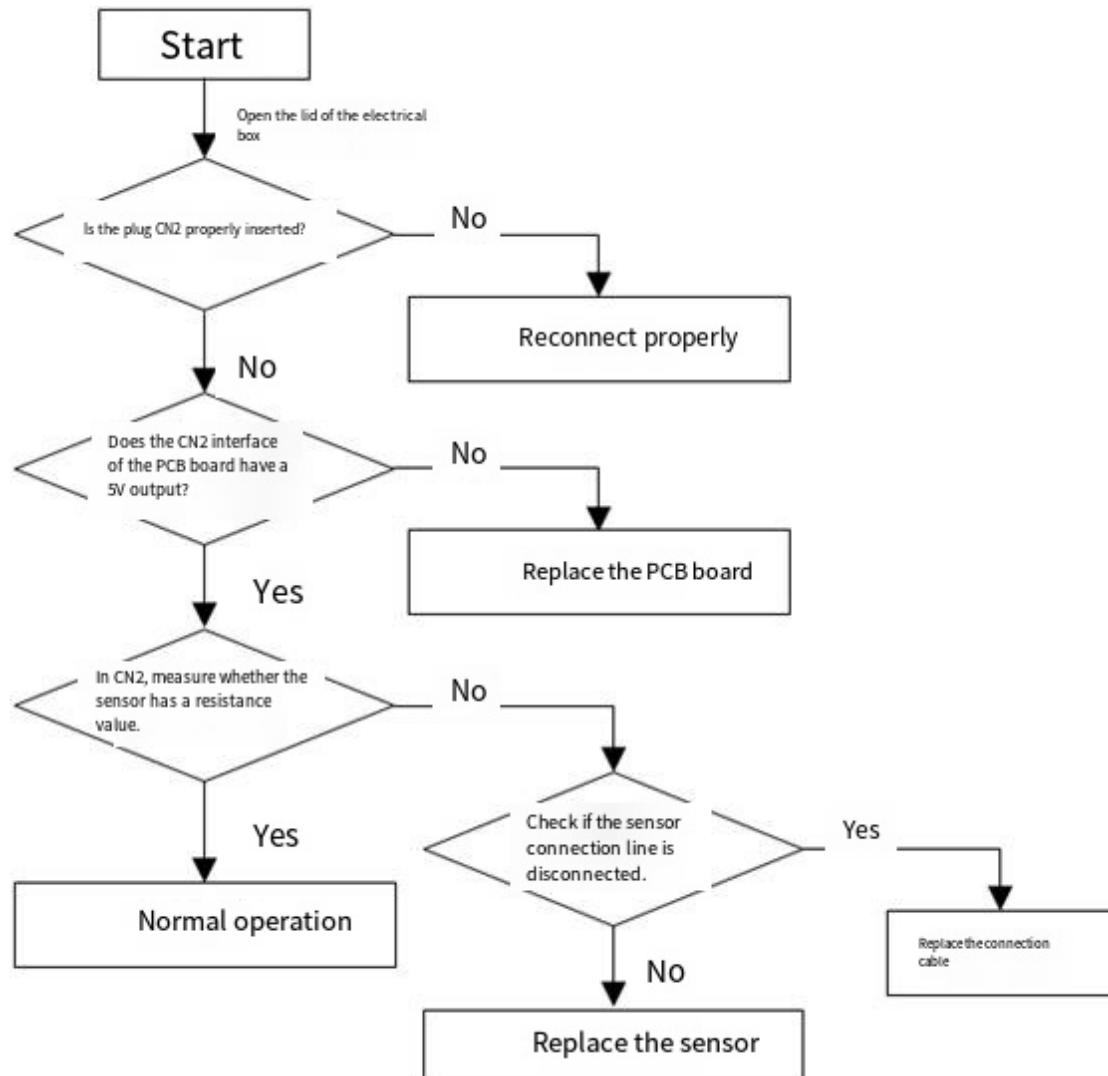
5.3. The refrigerator does not cool or does not cool properly



5.4. Noise fault

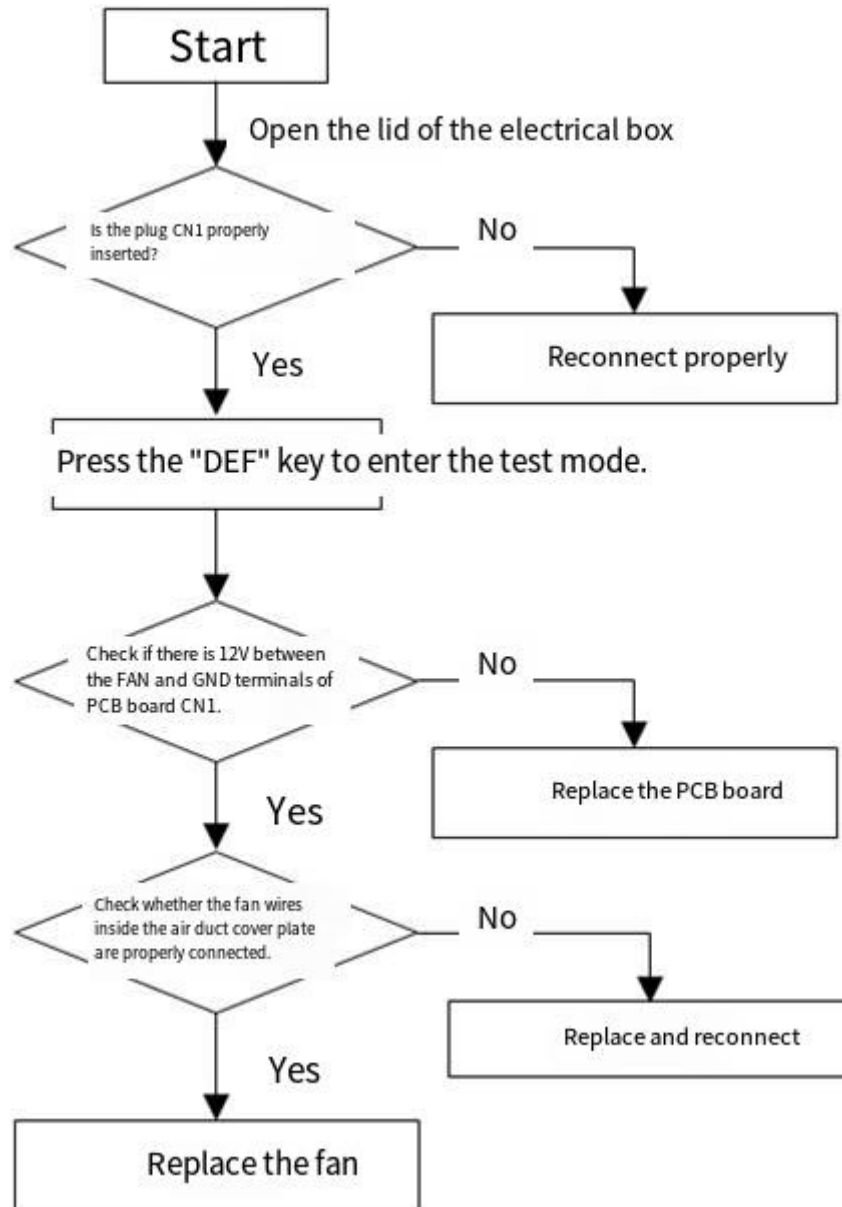


5.5. Sensor failure



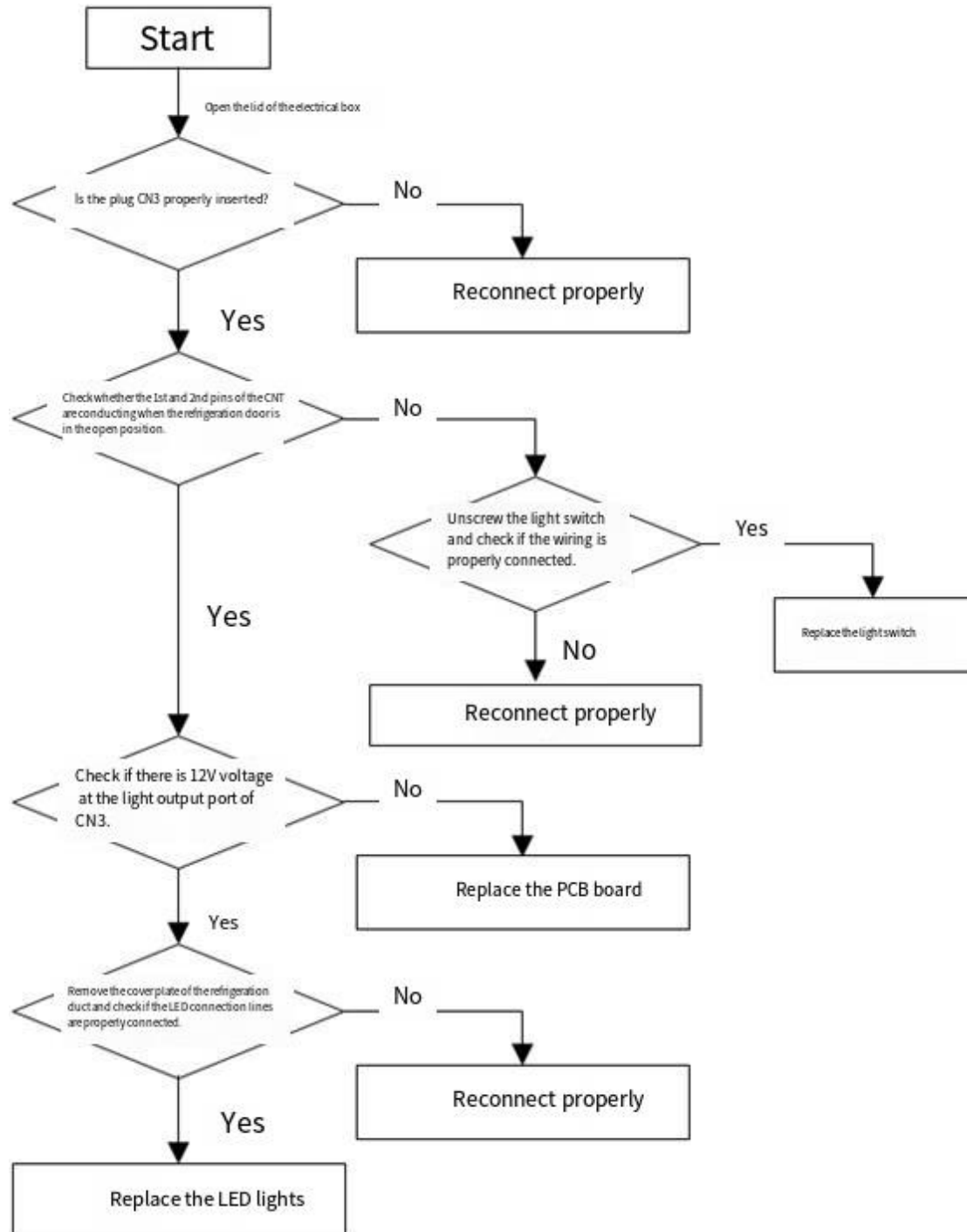
Note: Contact the manufacturer if the connection line breaks inside the box

5.6. The fan is not working



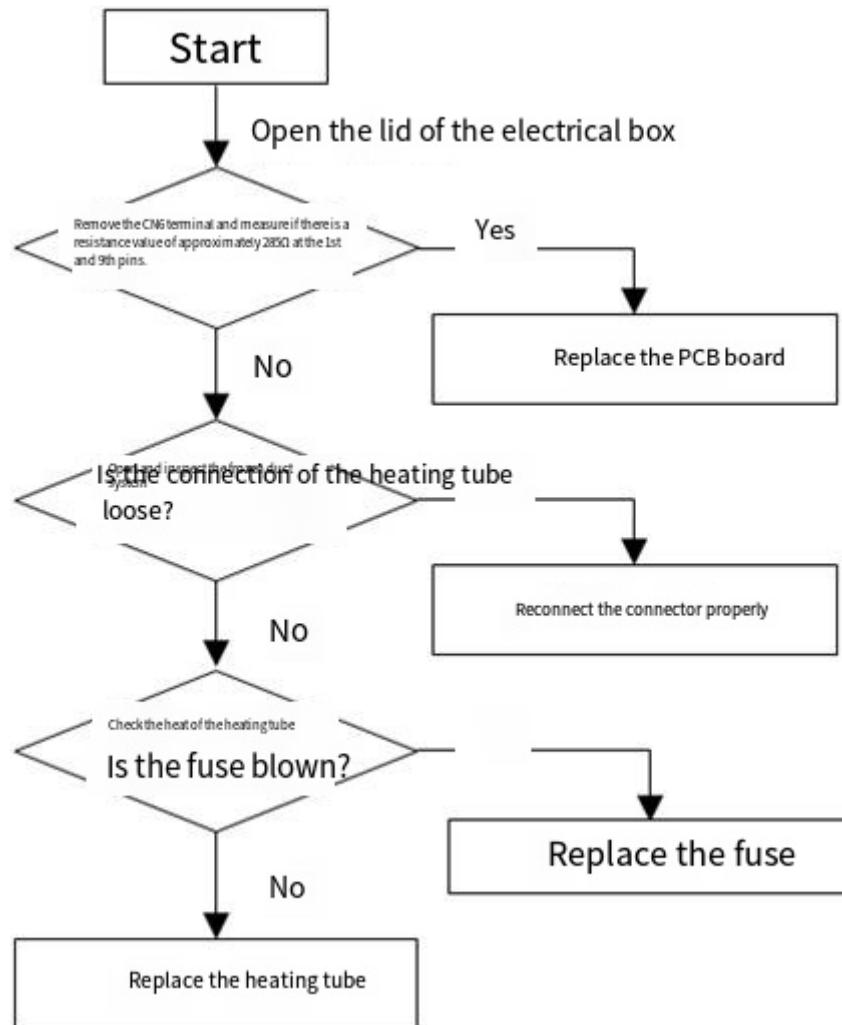
Note: The test mode is the running state of the fan and compressor for 22 minutes, and then exit the test mode after 25 minutes

5.7. Refrigerated lighting does not work



Note: Check the power board layout for terminal pins

5.8. Defrosting heating tubes are not working



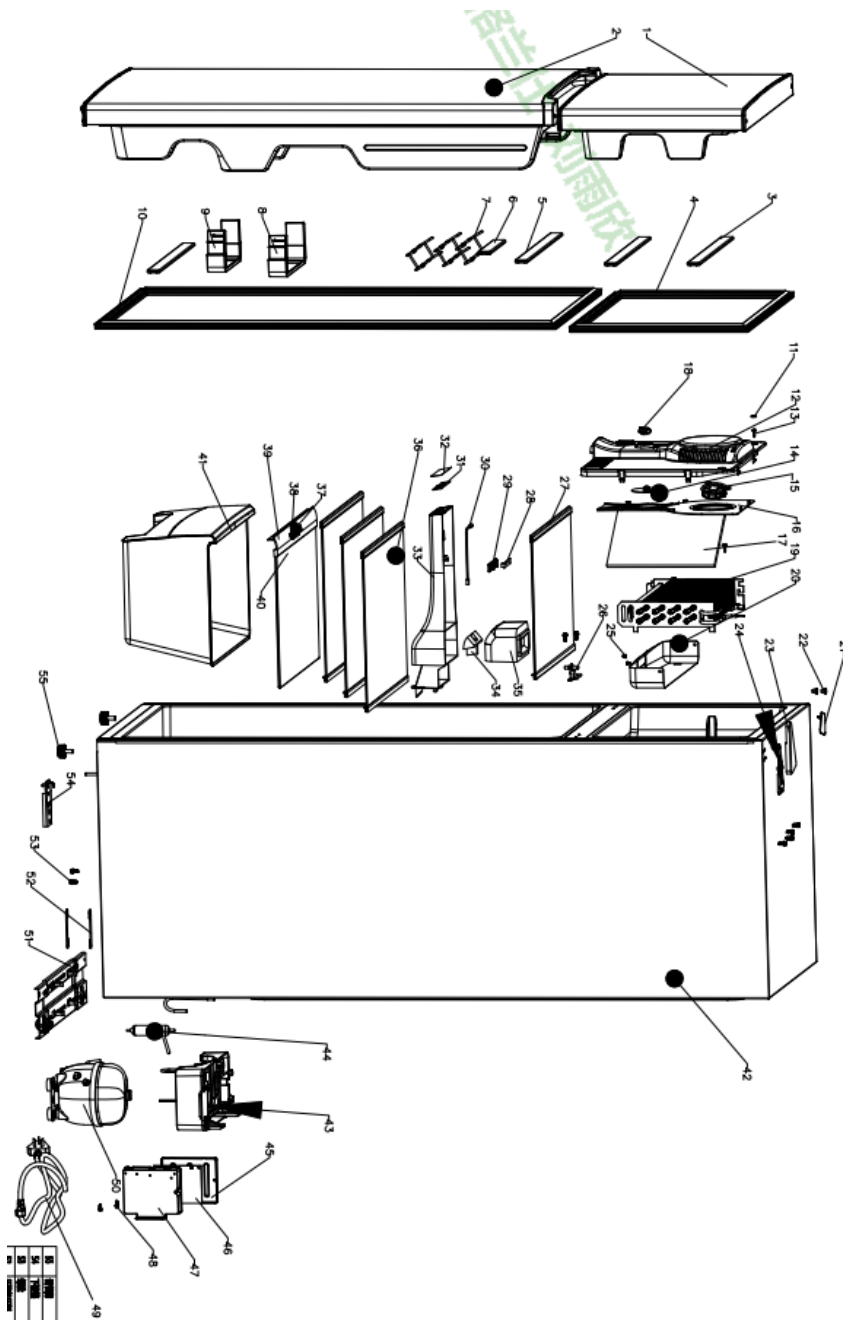
Note: (1) Terminal pins check the power board layout diagram;

(2) When troubleshooting the cause of the fault, disconnect the power supply of the refrigerator to avoid electric shock.

6. Explosion diagram and parts list

6.1. BDA12GLA(BDA12GLA) explosion diagram

6.3. BDA12GLA(BDA12GLA) explosion chart



BCD-340WEVPH exploded view drawing

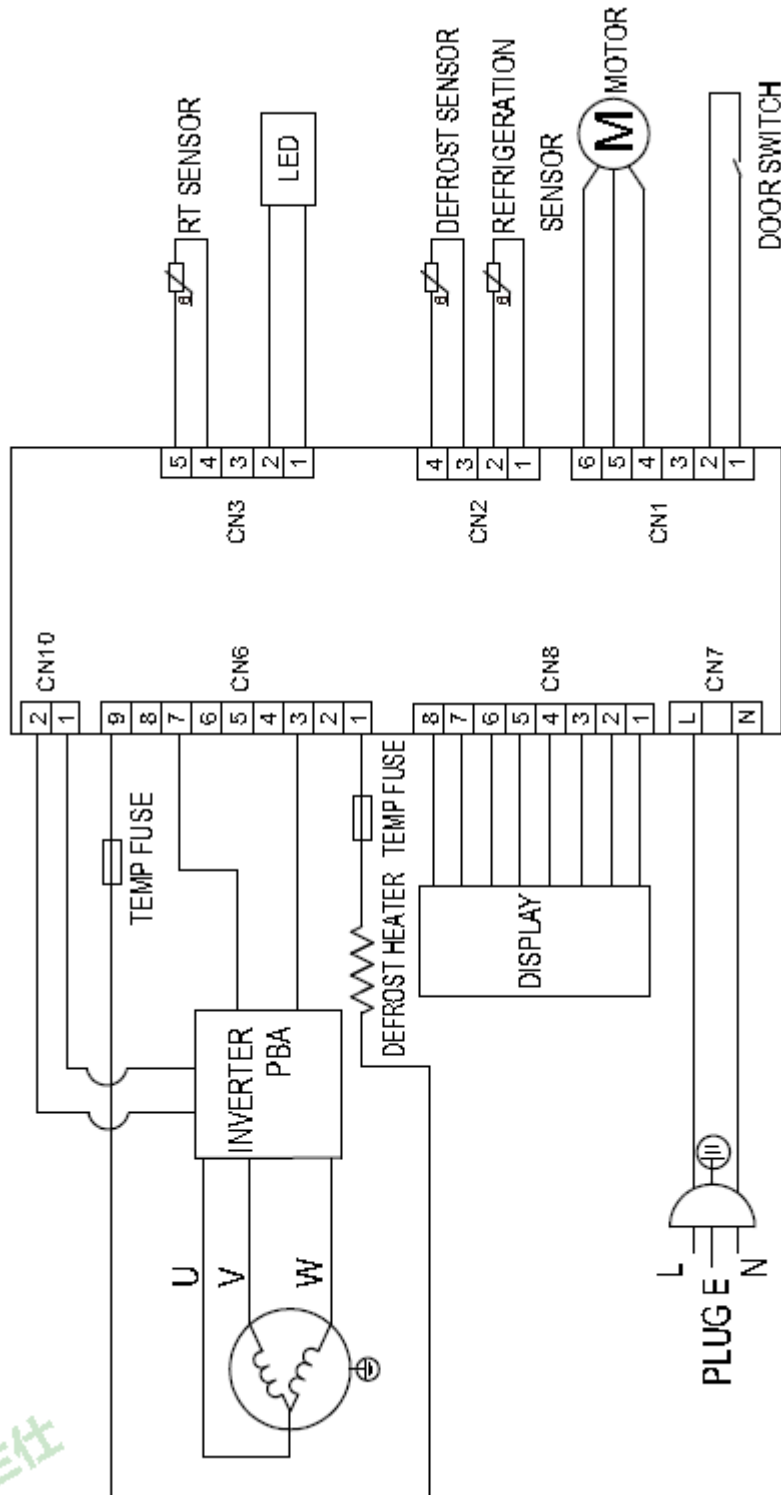
6.3.1 Parts List

No.	Material No.	English Name	Quantity
1	208010003387	Door Foam Assembly, Freezer	1
2	208010003415	Door Foam Assembly, Refrigerator	1
3	228010003949	Door shelf I	2
4	228010003944	Flip Beam, Freezer	1
5	228010003951	Door shelf II	2
6	228010003950	Door shelf III	1
7	218010003763	Cola Bar	3
8	228010001674	Door shelf IV\HIPS	1
9	228010001673	Door shelf V\HIPS	1
10	228010003982	Flip Beam, Refrigerator\BCD-340WEV\PVC\	1
11	228010002793	Screw cap\BCD-251WTEG\PP	2
12	228010003940	Air duct cover\BCD-280WEV\HIPS, Freezer	1
13	571000090666	Screw\ST4*18.5	2
14	228010003942	Damper, Freezer	1
15	258010002032	Fan, Freezer	1
16	228010003941	Freezer Duct Cover	1
17	598010000206	Freezer Duct Cover Plate Spacer	1
18	228010003810	knob	1
19	298010000287	Evap	1
20	258010002631	Refrig Defrost Heater	1
21	228010003207	Defrost Sensor Clip	1
22	258010002039	Temperature Sensor, Freezer	1
23	208010005052	Drip tray	1
24	228010004205	Upper Hinge Hole Cover	1
25	228010003166	Screw cap	2
26	228010000679	Upper Hinge Cover	1
27	208010000291	Upper Hinge Assembly	1
28	228010001255	Screw hole plug	2
29	208010003342	Middle Hinge Assembly	1
30	208010003640	Glass Shelf Assembly, Freezer	1
31	258010001995	LED lamp	1
32	228010003576	Lamp Cover	1
33	258010001927	Temperature Sensor	1
34	258010002055	Display Board	1
35	258010002062	Display film	1
36	228010003943	Freezer Duct Cover, Refrigerator	1
37	518020000134	Air Duct Foam I, Refrigerator	1
38	518020000135	Air Duct Foam II, Refrigerator	1
39	208010003641	Glass Shelf Assembly, Refrigerator	3
40	228010003318	Plastic Humidity-Adjusting Slider	1
41	228010003270	Plastic Humidity-Adjusting Plate	1
42	228010001681	Fruit and Vegetable Box Lid Trim Strip	1
43	248010000282	Vegetable Crisper Cover	1
44	228010003926	Vegetable Crisper	1
45	208010003412	Outer case components	1
46	298010000406	Hot Pipe	1
47	308010000080	Dry filter	1
48	228010005523	Plastic evaporating dish	1

49	218010003914	Electrical Box Cover	1
50	258010002366	PCB	1
51	228010003835	Control Panel Box	1
52	571000090509	Screw\ST3.5*9.5	1
53	258010002364	Power Cord	1
54	288010000310	Compressor	1
55	208010000529	Compressor Support Plate	1
56	218010000330	Base Assembly, Compressor	2
57	574000090021	Screw\M8*25	12
58	208010000788	Bottom Hinge	1
59	228010005616	Adjustable foot	2

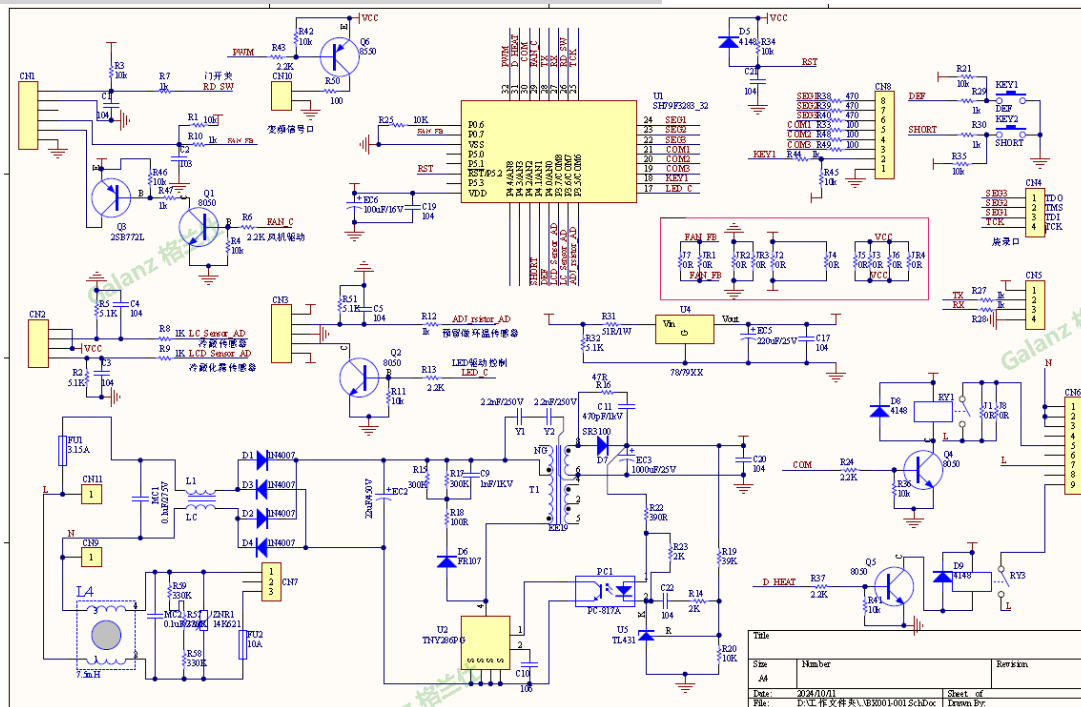
7. Electrical appliances and controls

7.1 Wiring diagram

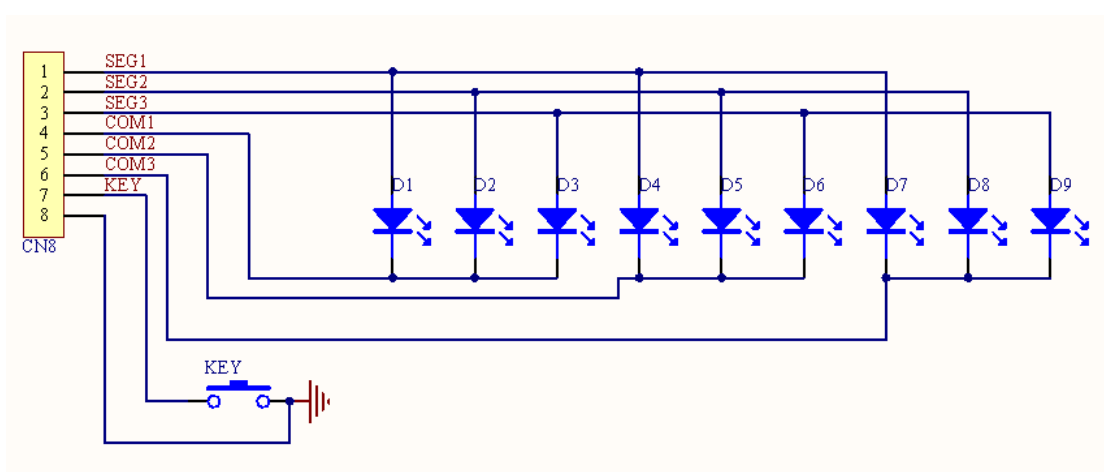


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7.2. Schematic diagram of the power board



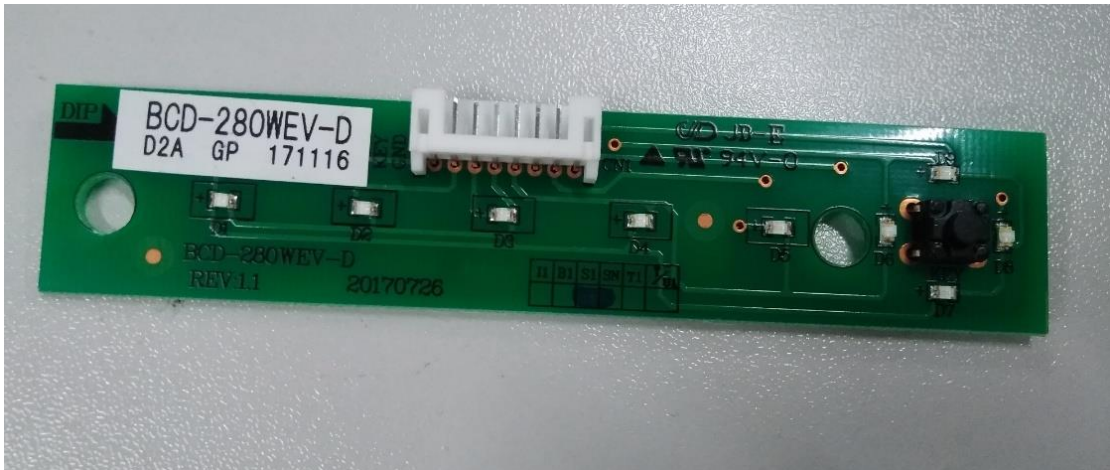
7.3. Schematic of the display board



7.4 Photographs and layout of the power board



7.5 Photos and layout of the display board

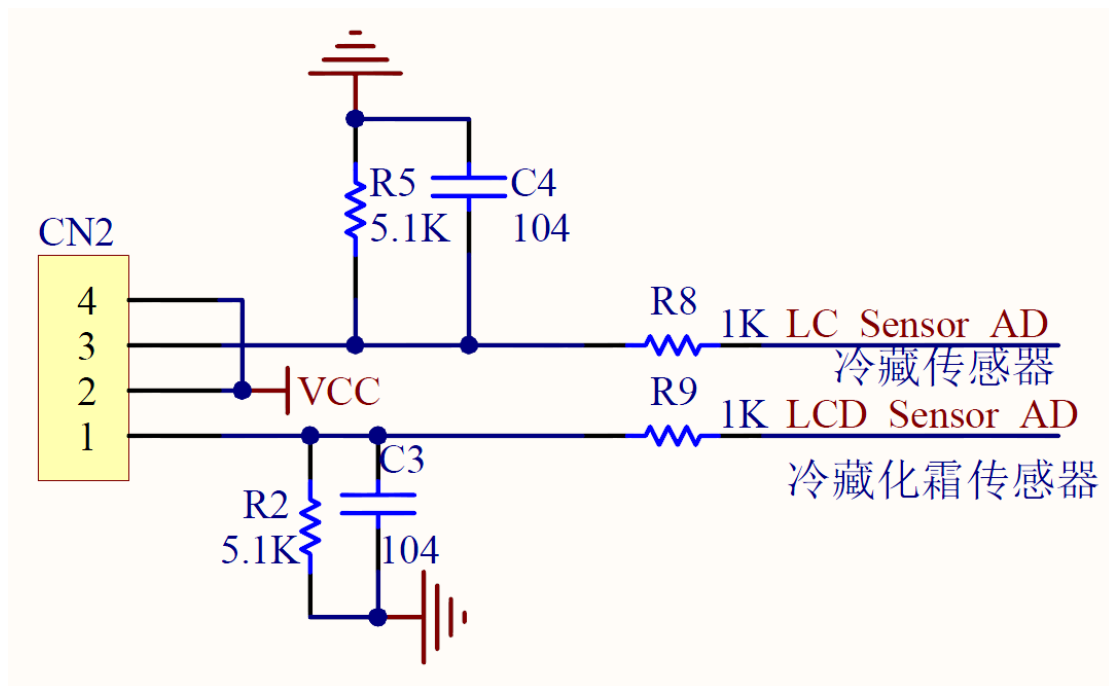


7.6. Temperature sensor

Principle:

The R-T sensor corresponds to the corresponding resistance at different temperatures, and the temperature is displayed through PCB board calculations.

The R-T resistance table is shown below



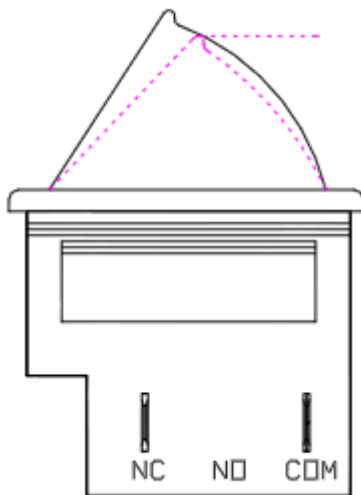
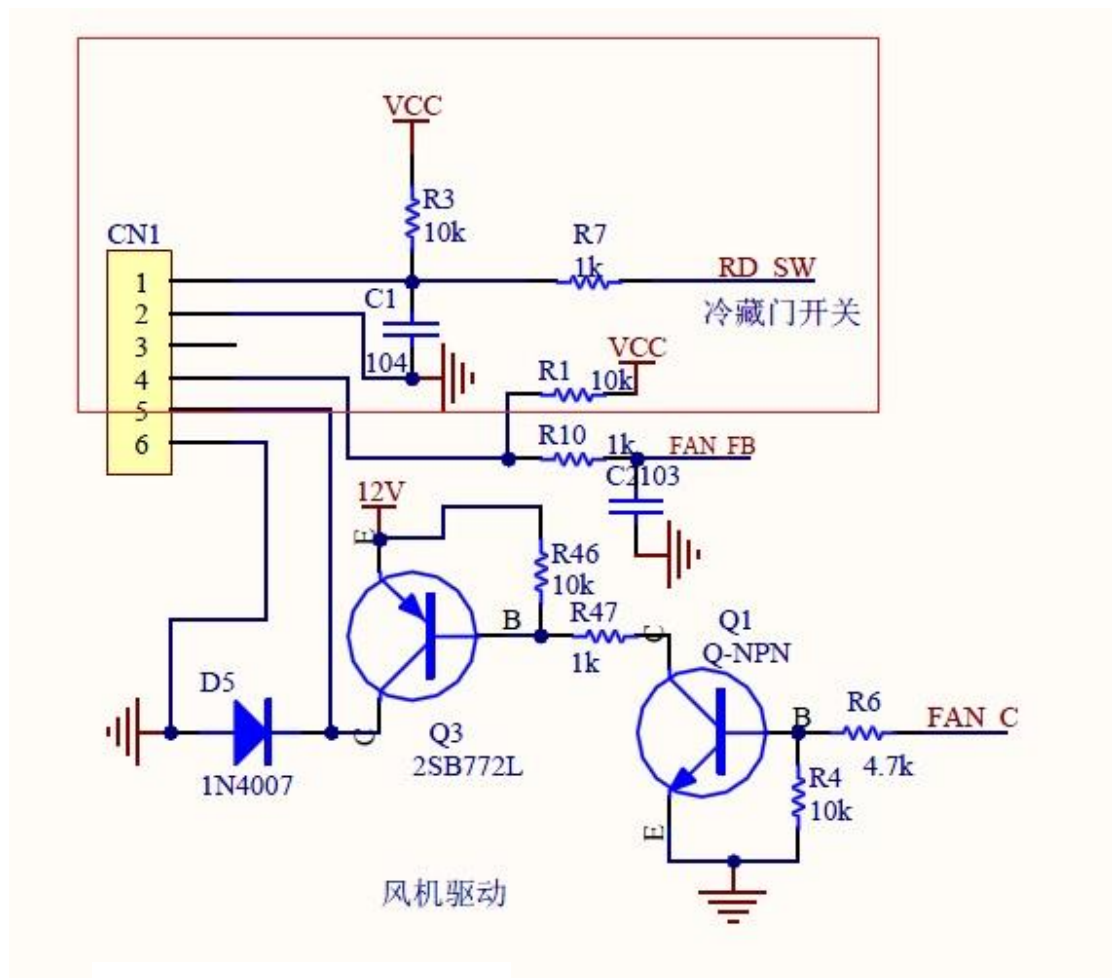
Resistance - Temperature Characteristic Table

R5 °C=5. 06k Ω ±2%						B5/25=3839K ±2%					
T(°C)	Rmin	Rcent	Rmax	DR(%)	DT(°C)	T(°C)	Rmin	Rcent	Rmax	DR(%)	DT(°C)
-40	57.71	61.91	66.40	7.24	1.09	3	5.463	5.586	5.709	2.20	0.44
-39	54.33	58.21	62.35	7.11	1.08	4	5.204	5.316	5.427	2.10	0.42
-38	51.15	54.74	58.56	6.98	1.06	5	4.959	5.060	5.161	2.00	0.41
-37	48.18	51.49	55.02	6.84	1.05	6	4.717	4.818	4.919	2.10	0.43
-36	45.38	48.45	51.70	6.71	1.04	7	4.489	4.589	4.690	2.20	0.45
-35	42.76	45.60	48.60	6.58	1.03	8	4.272	4.372	4.473	2.30	0.48
-34	40.30	42.92	45.69	6.46	1.01	9	4.068	4.167	4.267	2.40	0.50
-33	38.00	40.42	42.97	6.33	1.00	10	3.874	3.972	4.071	2.49	0.52
-32	35.83	38.07	40.43	6.20	0.99	11	3.691	3.788	3.886	2.59	0.55
-31	33.79	35.86	38.04	6.07	0.97	12	3.517	3.613	3.710	2.69	0.57
-30	31.88	33.79	35.80	5.95	0.96	13	3.352	3.447	3.543	2.79	0.60
-29	30.09	31.85	33.71	5.82	0.94	14	3.196	3.290	3.385	2.88	0.62
-28	28.40	30.03	31.74	5.70	0.93	15	3.049	3.141	3.234	2.98	0.65
-27	26.82	28.32	29.90	5.57	0.92	16	2.908	2.999	3.091	3.07	0.67
-26	25.33	26.72	28.18	5.45	0.90	17	2.776	2.865	2.955	3.17	0.70
-25	23.93	25.21	26.56	5.33	0.89	18	2.649	2.737	2.826	3.26	0.72
-24	22.61	23.80	25.04	5.21	0.87	19	2.530	2.616	2.704	3.35	0.75
-23	21.37	22.47	23.61	5.09	0.86	20	2.416	2.501	2.587	3.45	0.77
-22	20.21	21.22	22.28	4.97	0.84	21	2.308	2.391	2.476	3.54	0.80
-21	19.11	20.05	21.02	4.85	0.83	22	2.206	2.287	2.370	3.63	0.83
-20	18.08	18.94	19.84	4.73	0.82	23	2.109	2.188	2.270	3.72	0.85
-19	17.11	17.91	18.73	4.61	0.80	24	2.016	2.094	2.174	3.82	0.88
-18	16.20	16.93	17.69	4.49	0.79	25	1.929	2.005	2.083	3.91	0.90
-17	15.34	16.01	16.71	4.38	0.77	26	1.845	1.919	1.996	4.00	0.93
-16	14.52	15.15	15.80	4.26	0.75	27	1.766	1.838	1.914	4.09	0.96
-15	13.76	14.34	14.93	4.15	0.74	28	1.690	1.761	1.835	4.18	0.99
-14	13.04	13.57	14.12	4.03	0.72	29	1.618	1.688	1.760	4.26	1.01
-13	12.36	12.85	13.35	3.92	0.71	30	1.550	1.618	1.688	5.35	1.04
-12	11.72	12.17	12.63	3.81	0.69	31	1.485	1.551	1.620	4.44	1.07
-11	11.12	11.53	11.96	0.69	0.98	32	1.422	1.487	1.555	4.53	1.10
-10	10.55	10.93	11.32	3.58	0.66	33	1.363	1.427	1.493	4.62	1.12
-9	10.01	10.36	10.72	3.47	0.64	34	1.307	1.369	1.433	4.70	1.15
-8	9.501	9.825	10.150	3.36	0.63	35	1.253	1.314	1.377	7.79	1.18
-7	9.022	9.319	9.622	3.25	0.61	36	1.202	1.261	1.323	4.87	1.21
-6	8.569	8.842	9.121	3.15	0.60	37	1.154	1.211	1.271	4.96	1.24
-5	8.142	8.393	8.647	3.04	0.58	38	1.107	1.163	1.222	5.04	1.27
-4	7.738	7.968	8.201	2.93	0.56	39	1.063	1.118	1.175	5.13	1.30
-3	7.356	7.567	7.781	2.82	0.55	40	1.020	1.074	1.130	5.21	1.32

Resistance - Temperature Characteristic Table

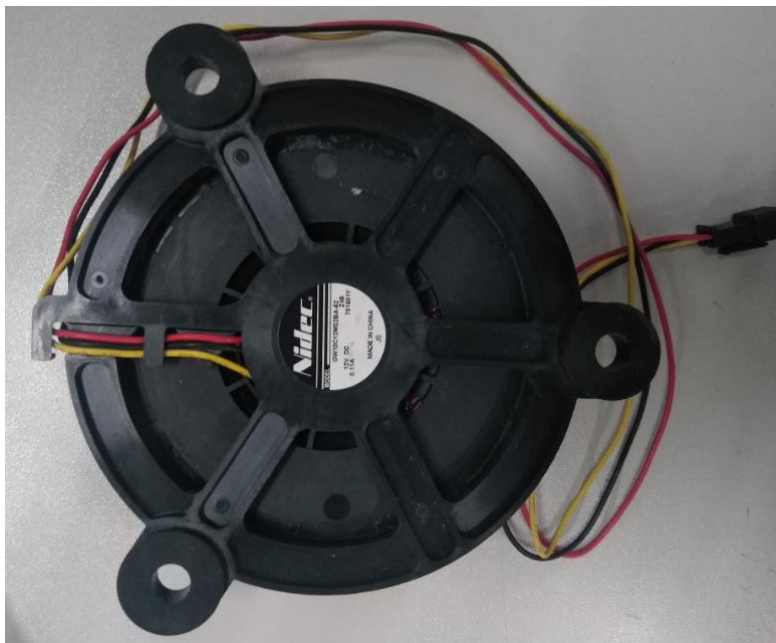
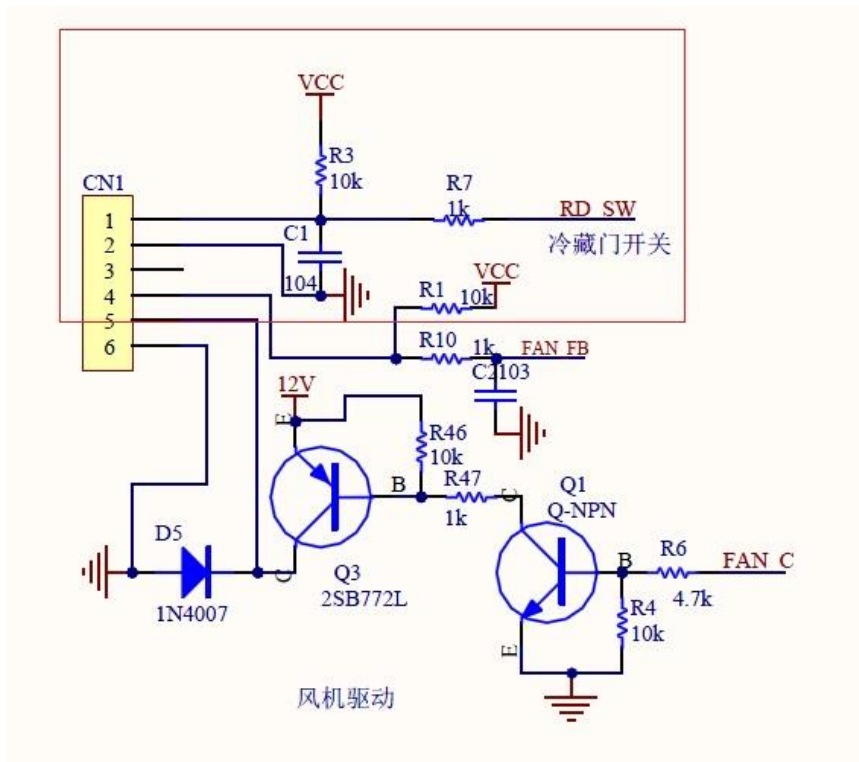
R5°C=5.06kΩ ±2%						B5/25=3839K ±2%					
T(°C)	Rmin	Rcent	Rmax	DR(%)	DT(°C)	T(°C)	Rmin	Rcent	Rmax	DR(%)	DT(°C)
-2	6.995	7.188	7.384	2.72	0.53	41	0.9799	1.0320	1.0870	5.30	1.35
-1	6.654	6.831	7.009	2.61	0.51	42	0.9413	0.9923	1.0460	5.38	1.38
0	6.331	6.493	6.656	2.51	0.49	43	0.9044	0.9542	1.0060	5.46	1.41
1	6.026	6.173	6.322	2.41	0.48	44	0.8692	0.9178	0.9687	5.54	1.44
2	5.737	5.871	6.007	2.30	0.46	45	0.8356	0.8830	0.9326	5.62	1.47
46	0.8035	0.8497	0.8981	5.71	1.50	87	0.1940	0.2110	0.2293	8.69	2.90
47	0.7727	0.8178	0.8651	5.79	1.53	88	0.1882	0.2048	0.2227	8.76	2.94
48	0.7434	0.7873	0.8335	5.87	1.57	89	0.1826	0.1982	0.2164	8.82	2.98
49	0.7153	0.7581	0.8032	5.95	1.60	90	0.1773	0.1931	0.2103	8.88	3.02
50	0.6884	0.7302	0.7742	6.03	1.63	91	0.1721	0.1876	0.2043	8.95	3.06
51	0.6627	0.7034	0.7464	6.11	1.66	92	0.1671	0.1822	0.1986	9.01	3.10
52	0.6381	0.6778	0.7198	6.18	1.69	93	0.1623	0.1770	0.1931	9.07	3.14
53	0.6145	0.6533	0.6942	6.26	1.72	94	0.1576	0.1721	0.1878	9.14	3.17
54	0.5920	0.6298	0.6697	6.34	1.75	95	0.1531	0.1673	0.1827	9.20	3.21
55	0.5704	0.6072	0.6462	6.42	1.79	96	0.1488	0.1626	0.1777	9.26	3.25
56	0.5497	0.5856	0.6237	6.50	1.82	97	0.1446	0.1582	0.1729	9.32	3.29
57	0.5299	0.5649	0.6021	6.57	1.85	98	0.1406	0.1538	0.1683	9.38	3.33
58	0.5109	0.5451	0.5813	6.65	1.88	99	0.1367	0.1479	0.1638	9.44	3.37
59	0.4927	0.5260	0.5614	6.72	1.92	100	0.1330	0.1457	0.1595	9.50	3.41
60	0.4752	0.5077	0.5423	6.80	1.95	101	0.1294	0.1418	0.1553	9.56	3.45
61	0.4585	0.4902	0.5239	6.87	1.98	102	0.1259	0.1380	0.1513	9.62	3.49
62	0.4424	0.4734	0.5063	6.95	2.01	103	0.1225	0.1344	0.1474	9.68	3.53
63	0.4270	0.4572	0.4893	7.02	2.05	104	0.1193	0.1309	0.1437	9.73	3.58
64	0.4122	0.4417	0.4730	7.10	2.08	105	0.1161	0.1275	0.1400	9.79	3.62
65	0.3981	0.4268	0.4574	7.17	2.12	106	0.1131	0.1243	0.1365	9.85	3.66
66	0.3844	0.4125	0.4423	7.24	2.15	107	0.1102	0.1211	0.1331	9.91	3.70
67	0.3714	0.3987	0.4279	7.32	2.18	108	0.1074	0.1181	0.1299	9.96	3.74
68	0.3588	0.3855	0.4140	7.39	2.22	109	0.1046	0.1152	0.1267	10.02	3.78
69	0.3468	0.3728	0.4006	7.46	2.25	110	0.1020	0.1123	0.1236	10.07	3.83
70	0.3352	0.3606	0.3877	7.53	2.29	111	0.0995	0.1096	0.1207	10.13	3.87
71	0.3240	0.3488	0.3753	7.60	2.32	112	0.0970	0.1069	0.1178	10.18	3.91
72	0.3133	0.3375	0.3634	7.68	2.36	113	0.0947	0.1044	0.1151	10.23	3.95
73	0.3031	0.3267	0.3520	7.75	2.39	114	0.0924	0.1019	0.1124	10.29	4.00
74	0.2932	0.3162	0.3409	7.82	2.43	115	0.2902	0.0995	0.1098	10.34	4.04
75	0.2837	0.3062	0.3303	7.89	2.46	116	0.0880	0.0972	0.1073	10.39	4.08
76	0.2745	0.2965	0.3201	7.96	2.50	117	0.0860	0.0950	0.1049	10.44	4.13
77	0.2657	0.2872	0.3102	8.02	2.53	118	0.0840	0.0929	0.1026	10.49	4.17
78	0.2573	0.2782	0.3007	8.09	2.57	119	0.0821	0.0908	0.1004	10.54	4.21

7.7. Gate switch control circuit



The door switch is normally closed, the open state switch is closed; The closing position switch is open

7.8. Fan control circuit



Red line Fan power 12V

Black wire fan ground GND

Yellow wire fan feedback wire is used to feedback fan speed and fan faults