13. Troubleshooting

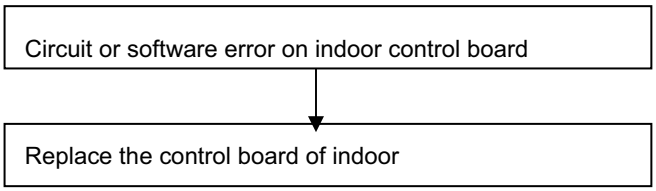
13.1 Indoor Unit Error Display

Display	LED STATUS
E0	EEPROM error
E1	Indoor / outdoor units communication protection
E2	Zero-crossing examination error
E3	Fan speed beyond control
E5	Open or short circuit of outdoor temperature sensor
E6	Room temperature or evaporator temperature sensor open or short circuit of
P0	Module protection
P1	Over voltage or too low voltage protection
P2	Compressor top protection against temperature
P3	Outdoor low temp. protection
P4	Inverter compressor drive error

Note: E4: Reserved function

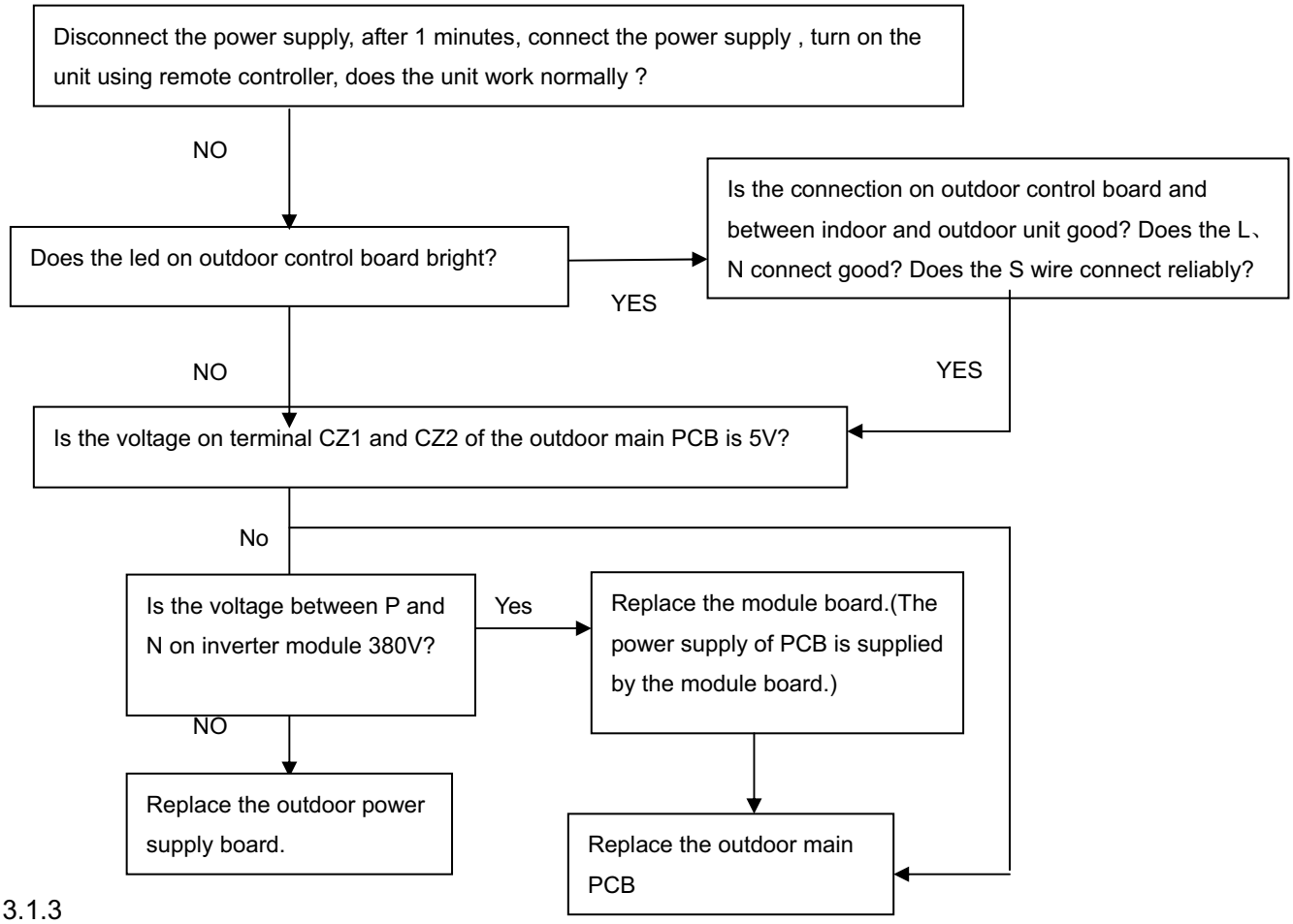
13.1.1

Display	LED STATUS
E0	EEPROM parameter error



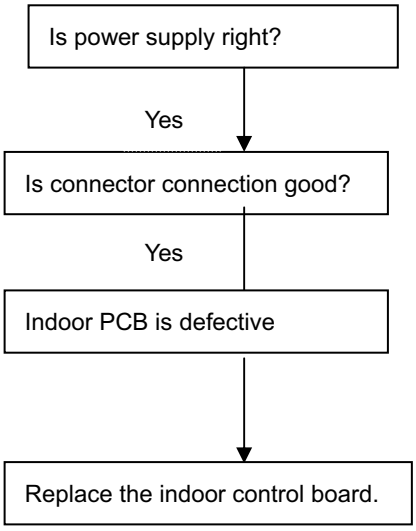
13.1.2 circuit or software error on indoor cortrol board

Display	LED STATUS
E1	Indoor / outdoor units communication protection



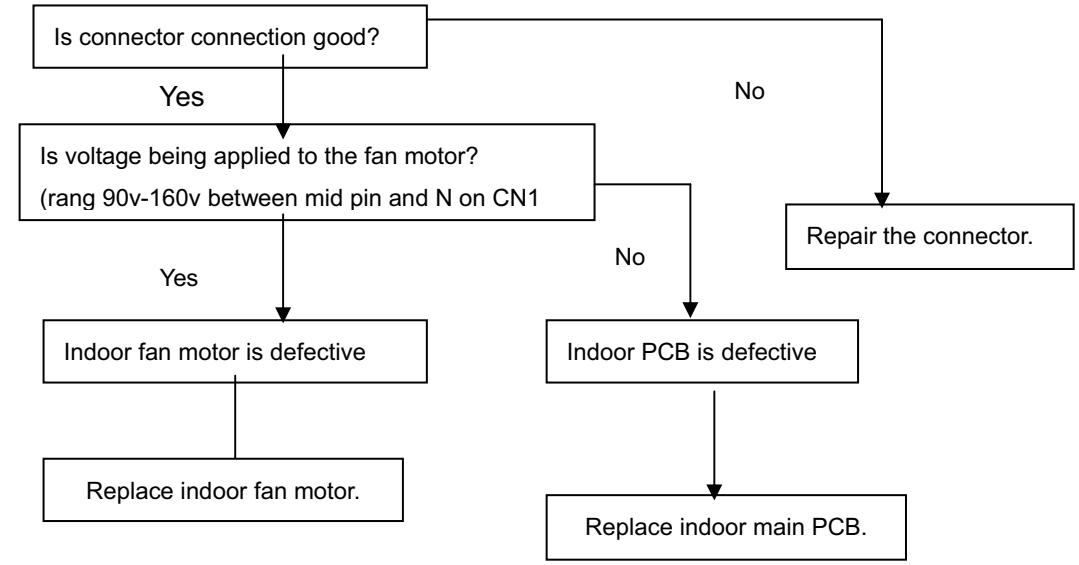
13.1.3

Display	LED STATUS
E2	Zero-crossing examination error



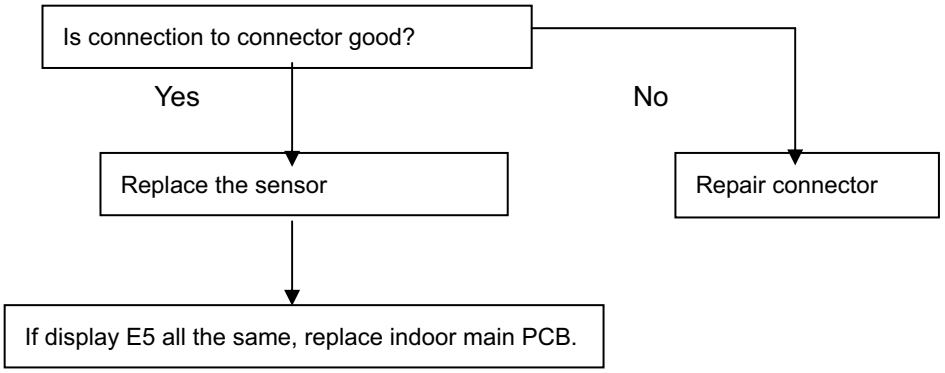
13.1.4

Display	LED STATUS
E3	Fan speed beyond control



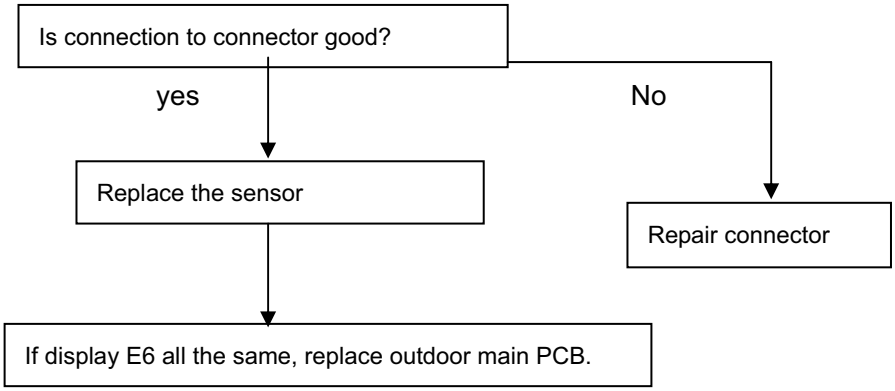
13.1.5

Display	LED STATUS
E5	Open or short circuit of outdoor temperature sensor



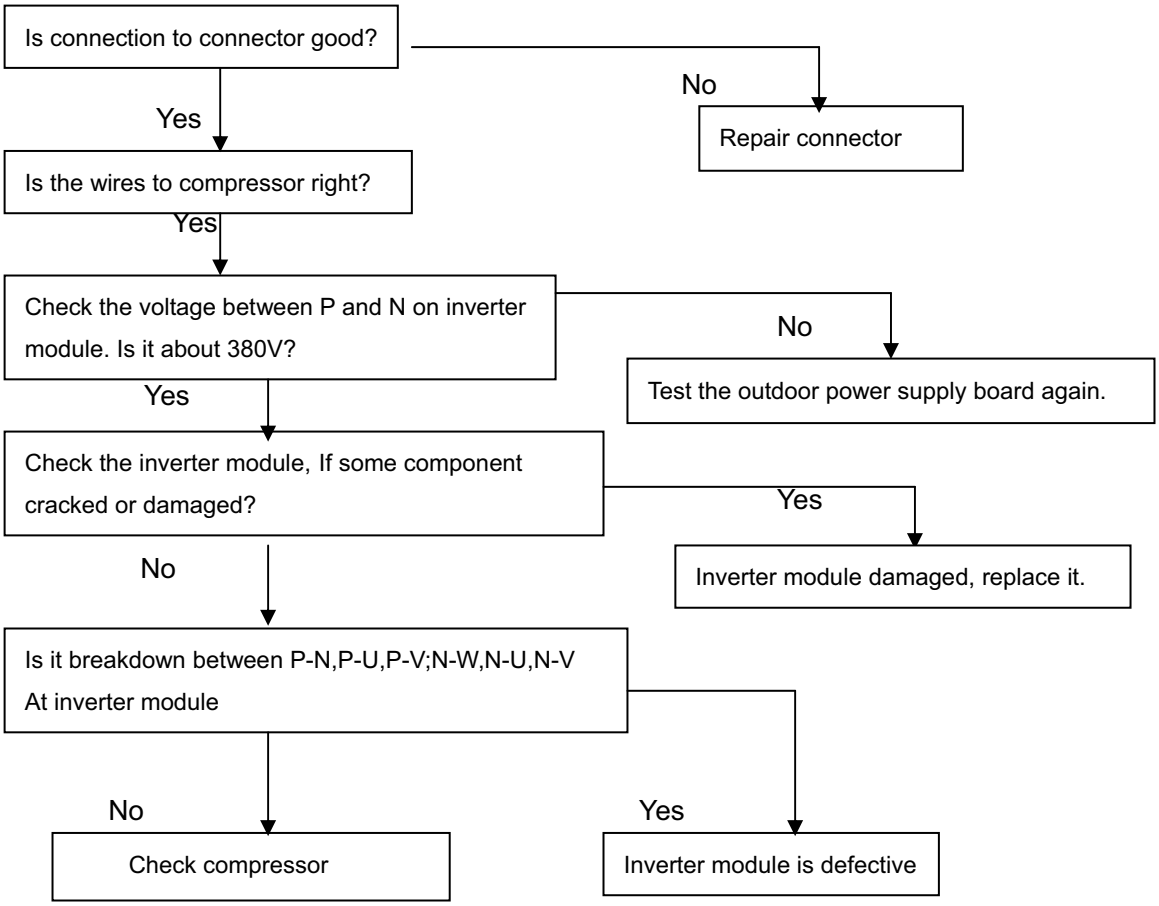
13.1.6

Display	LED STATUS
E6	Room temperature or evaporator temperature sensor open or short circuit



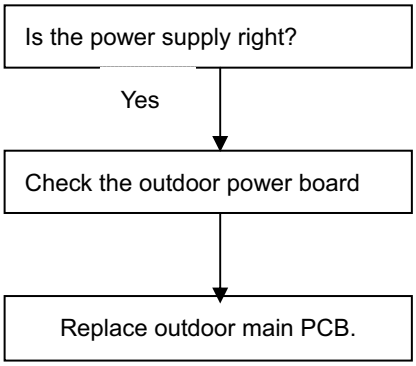
13.1.7

Display	LED STATUS
P0	Module protection



13.1.8

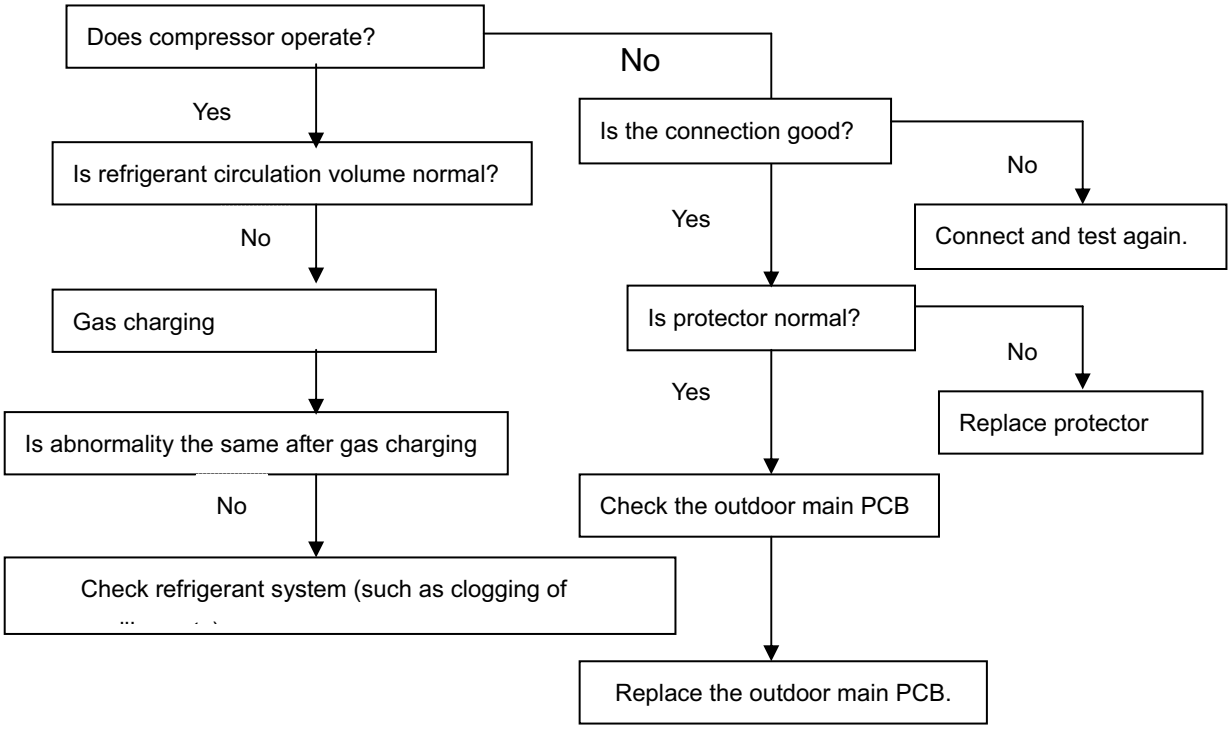
Display	LED STATUS
P1	Over voltage or too low voltage protection



13.1.9

Display	LED STATUS
P2	Compressor top protection against temperature

Off: 115 ˚C; On: 100 ˚C

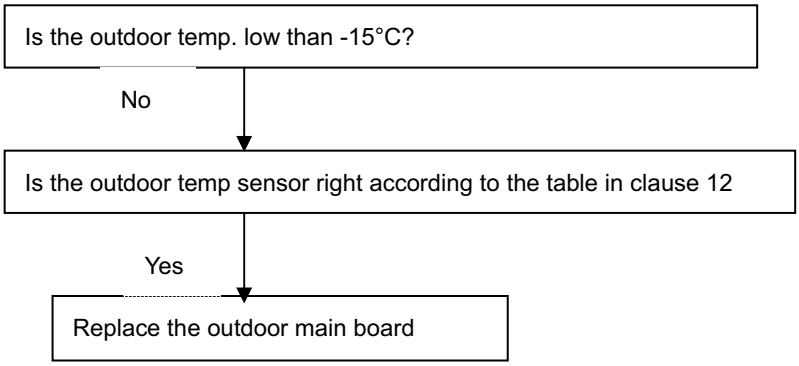


13.1.10

Display	LED STATUS
P3	Outdoor low temp. protection

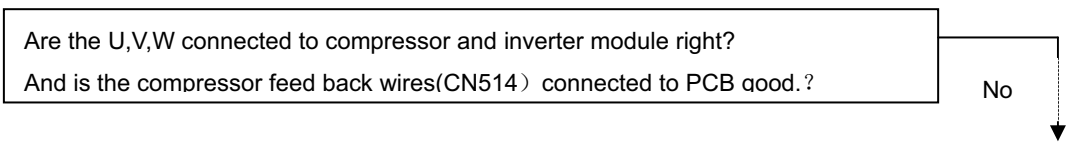
This is optional, factory standard unit has not this function.

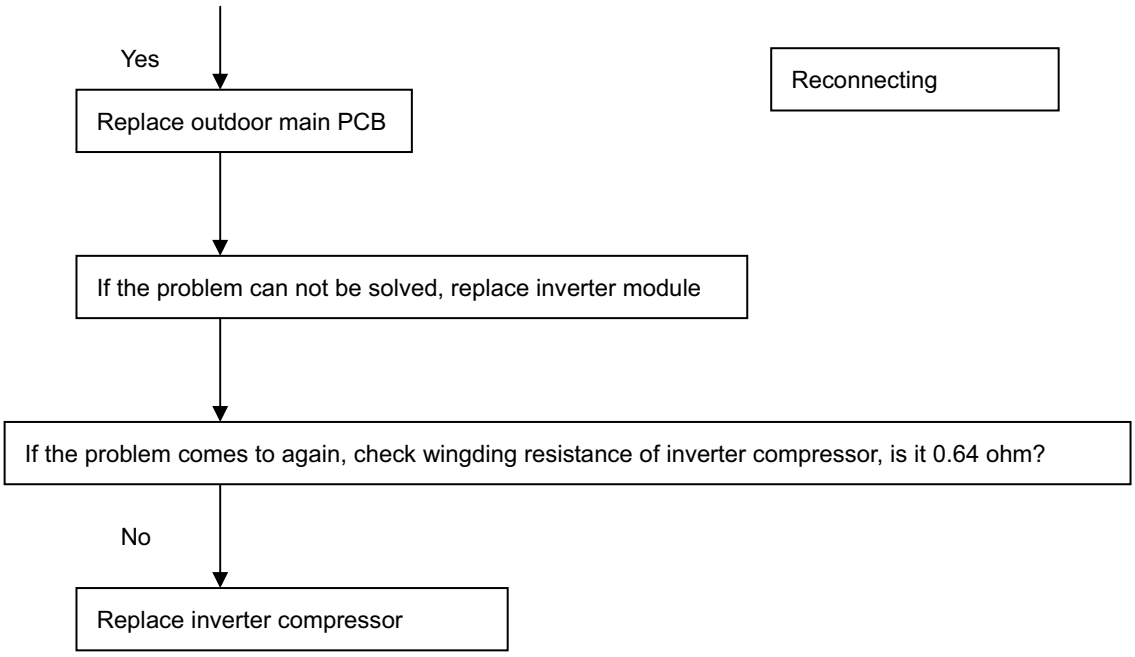
Unit stops when outdoor temp. is low than -15°C and lasting time more than 60 minutes, and unit runs again when outdoor temp. more than -12°C.



13.1.11

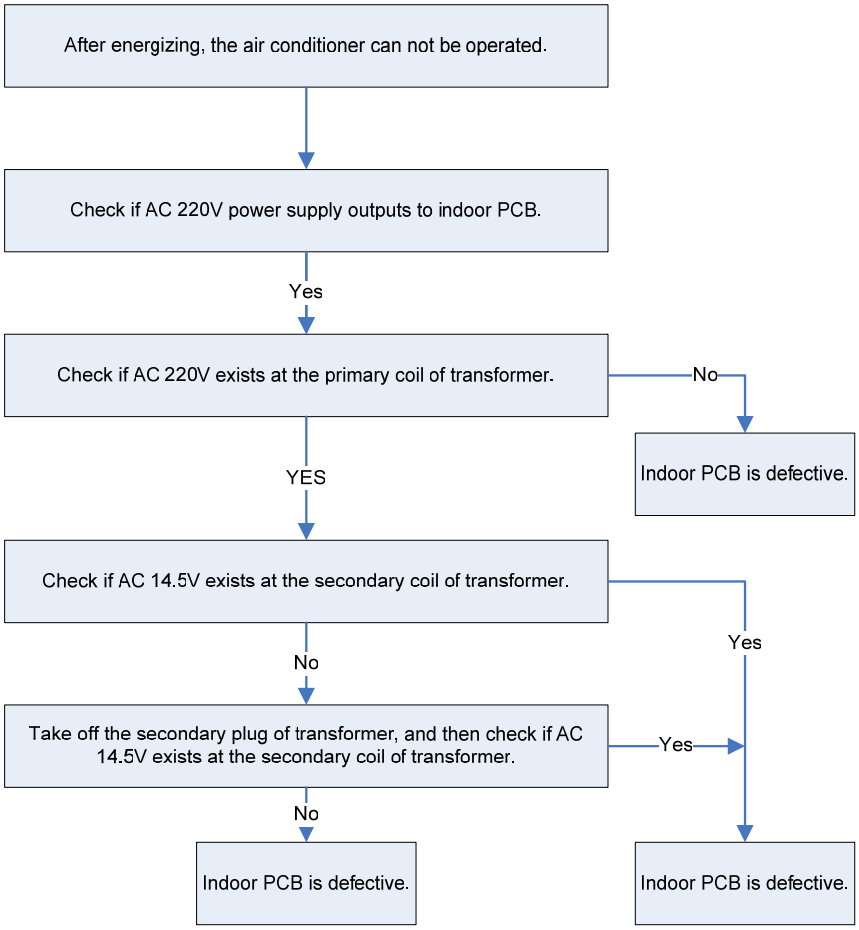
Display	LED STATUS
P4	Inverter compressor error





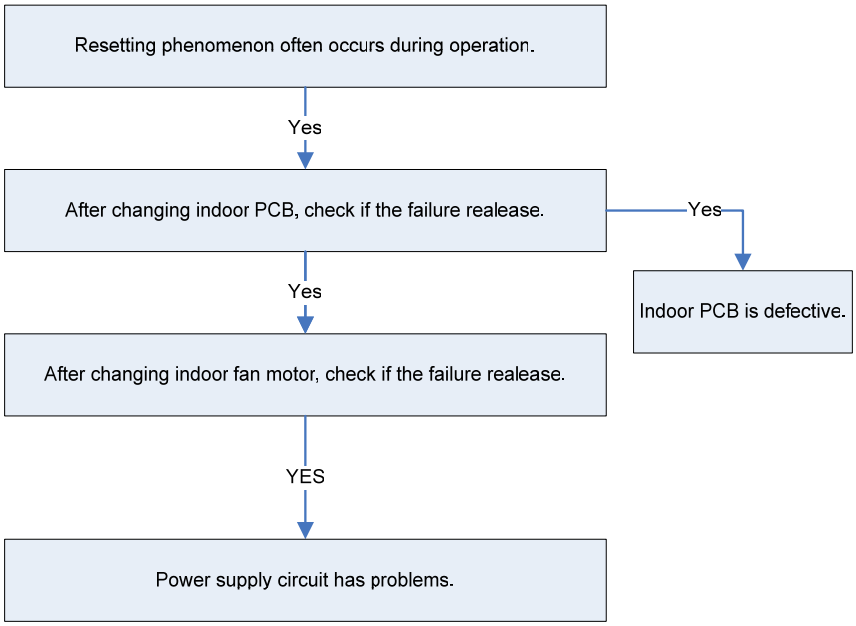
13.2 Diagnostic chart

After energizing, no indicator is lighted and the air conditioner can’t be operated.

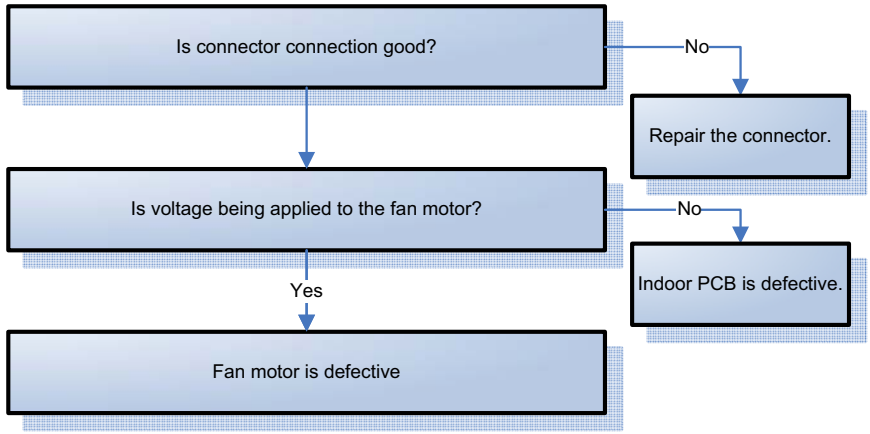

After energizing, the air conditioner can not be operated.
Check if AC 220V power supply outputs to indoor PCB.
Yes
Check if AC 220V exists at the primary coil of transformer.
No
Indoor PCB is defective.
YES
Check if AC 14.5V exists at the secondary coil of transformer.
Yes
No
Take off the secondary plug of transformer, and then check if AC 14.5V exists at the secondary coil of transformer.
Yes
No
Indoor PCB is defective.
Indoor PCB is defective.

13.3 Resetting phenomenon often occurs during operation

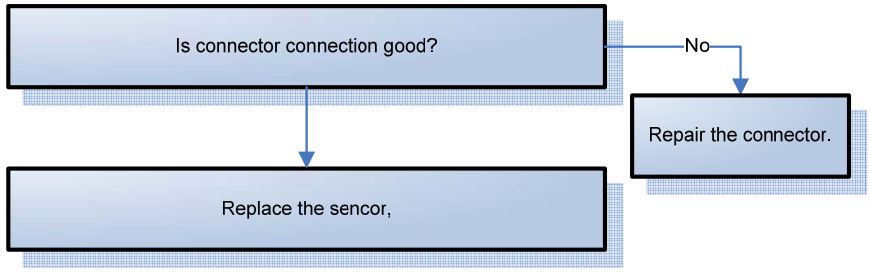
(That is automatically entering to the status when power is on.)
The reason is that the instantaneous voltage of main chip is less than 4.5V. Check according to the following procedure:



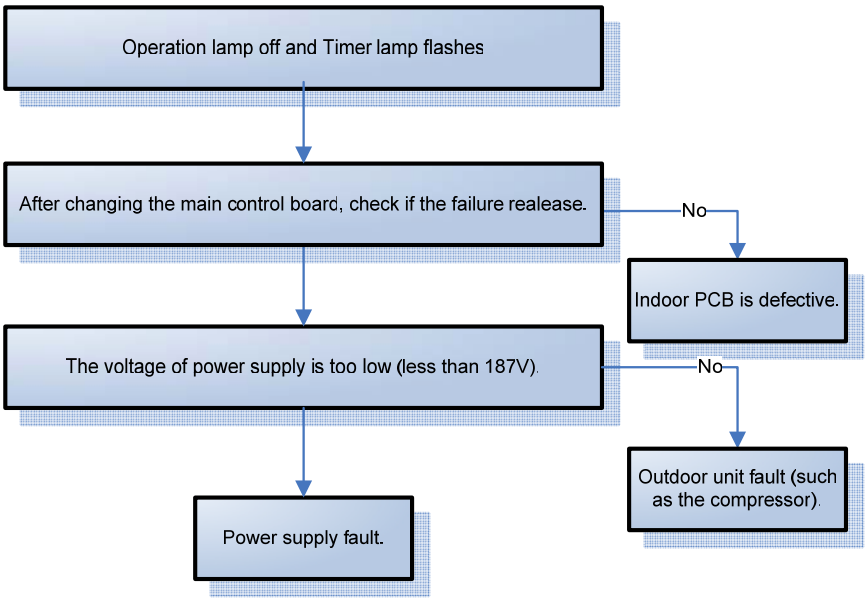
13.4 Operation lamp flashes and Timer lamp off



13.5 Operation lamp flashes and Timer lamp on



13.6 Operation lamp off and Timer lamp flashes



13.7 Operation lamp on and Timer lamp flashes

EEROM error, indoor PCB is defective.

13.8 Operation lamp flashes, Timer lamp flashes

This is alarm signal when the main chip can't detect over-zero signal. When such failure occurs, the main control board must have fault.

14 Characteristic of temperature sensor

Temp.℃	Resistance KΩ	Temp.℃	Resistance KΩ	Temp.℃	Resistance KΩ
-10	62.2756	17	14.6181	44	4.3874
-9	58.7079	18	13.918	45	4.2126
-8	56.3694	19	13.2631	46	4.0459
-7	52.2438	20	12.6431	47	3.8867
-6	49.3161	21	12.0561	48	3.7348
-5	46.5725	22	11.5	49	3.5896
-4	44	23	10.9731	50	3.451
-3	41.5878	24	10.4736	51	3.3185
-2	39.8239	25	10	52	3.1918
-1	37.1988	26	9.5507	53	3.0707
0	35.2024	27	9.1245	54	2.959
1	33.3269	28	8.7198	55	2.8442
2	31.5635	29	8.3357	56	2.7382
3	29.9058	30	7.9708	57	2.6368
4	28.3459	31	7.6241	58	2.5397
5	26.8778	32	7.2946	59	2.4468
6	25.4954	33	6.9814	60	2.3577
7	24.1932	34	6.6835	61	2.2725
8	22.5662	35	6.4002	62	2.1907
9	21.8094	36	6.1306	63	2.1124
10	20.7184	37	5.8736	64	2.0373
11	19.6891	38	5.6296	65	1.9653
12	18.7177	39	5.3969	66	1.8963
13	17.8005	40	5.1752	67	1.830
14	16.9341	41	4.9639	68	1.7665
15	16.1156	42	4.7625	69	1.7055
16	15.3418	43	4.5705	70	1.6469