

TROUBLE SOLVE METHODS

■ Indoor unit display and solve methods of protector stop ingredients in indoor unit and outdoor unit.

1. Press the emergency operation switch for 3 seconds, the buzzer sounds twice and display the trouble code.
2. The display panel show the relevant protector ingredients, it doesn't display if it hasn't the display panel.
3. It's show the protector code of indoor unit if the run indication flashed, it doesn't flash if it hasn't run indication. It's show the protector code of outdoor unit if the time indication flashed, it doesn't flash if it hasn't time indication. The flash times show the relevant protector code, for example, the time indication flashed "4#" times, show the over-current protector (count method: 1 time per second, 4 times aggregately → stop for 3 second → 1 time per second, 4 times aggregately → stop for 3 secondflashed circulatory; other code analogous.) it will exit for 3 minutes and resume normal display status.

protect ingredients code display	Indication lamp code display	Protect names	Solve methods
F1	1#(run indication display)	Heat overloading protector	This kind of trouble can renew automatically.
F2	2#(run indication display)	Cool freeze protector	
F3	3#(run indication display)	Instantaneous power cut	
F4	4#(run indication display)	direct current fan motor no feedback	
1F	1#(time indication display)	cool overloading protector	
2F	2#(time indication display)	exhaust overheating protector	
3F	3#(time indication display)	over or not enough pressure protector	
4F	4#(time indication display)	over-current protector	
5F	5#(time indication display)	IPM protector	
6F	6#(time indication display)	defrost state	
7F	7#(time indication display)	direct current compressor drive exceptional(no feedback)	
8F	8#(time indication display)	direct current compressor can't start	

■ Indoor unit display and solve methods of troubles in indoor unit and outdoor unit.

1. The indoor unit and outdoor unit will stop if it has trouble, and display the trouble immediately. (it's allowed to run at the set speed when the air conditioner at the cooling state.
2. Display mode: the display show the relevant trouble code, it doesn't display if it hasn't the display panel.
3. It will be the trouble of indoor unit If the run indication of indoor unit flash. it doesn't display if it hasn't the run indication. It will be the trouble of outdoor unit If the time indication of indoor unit flash. it doesn't display if it hasn't the time indication. The flash times show the trouble code, for example, the run indication flashed "5#" times, show the bad communication of indoor unit and outdoor unit. (count method: 1 time per second, 5 times aggregately → stop for 3 second → 1 time per second, 5 times aggregately → stop for 3 secondflashed circulatory; other trouble code analogous.) the display renewed if the trouble solved.

TROUBLE SOLVE METHODS

Trouble code display	Indication lamp code display	Trouble names	Solve methods
E1	6#(run indication display)	The trouble of indoor unit room temperature sensor.	Inspect the Room temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 5K, if open circuit, please replace the temperature sensor.
E2	7#(run indication display)	The trouble of indoor unit pipe temperature sensor.	Inspect the pipe temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 5K, if open circuit, please replace the temperature sensor.
E3	8#(run indication display)	The trouble of PG motor.	Inspect the fan motor of indoor unit whether mangled, if not, use the remote controller to turn to fan mode from indoor mode, observe the fan motor whether running, if it running, inspect the feedback wiring harness of fan motor whether open circuit; if not, replace the control board of indoor unit, if it can't running also, please replace the fan motor.
E5	5#(run indication display)	The trouble of bad communication of indoor unit and outdoor unit.	Inspect the AC input terminal of indoor unit and outdoor unit whether corresponding, if it is, use the direct current of multimeter to test whether the communication wire and AC N phase is 18V, if it is, inspect the connecting communication wiring harness and module board is alright, if it is, replace the module board of outdoor unit, if the trouble can't solved also, please replace the electrical control board.
E6		The EEPROM of indoor unit error.	Replace the electrical control board.
1E	11#(time indication display)	The trouble of outdoor unit room temperature sensor.	Inspect the Room temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 5K, if open circuit, please replace the temperature sensor.
2E	12#(time indication display)	The trouble of outdoor unit pipe temperature sensor.	Inspect the pipe temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 5K, if open circuit, please replace the temperature sensor.
3E	13#(time indication display)	The trouble of exhaust sensor.	Inspect the exhaust sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 50K, if open circuit, please replace the temperature sensor.
4E	14#(time indication display)	The EEPROM of indoor unit error.(outdoor unit)	Replace the module board of outdoor unit.
8E	18#(time indication display)	The trouble of PFC.	Replace the module board of outdoor unit.

TROUBLE SOLVE METHODS

Outdoor unit frequency restrict condition code: (The red led lamp in module board of outdoor unit display it.)

when the compressor is running normally, the LED lamp flashing show the frequency restrict condition code. For example, when the lamp flashed "4" times, show the total current restricted. (Count method: 1 time per second, 4 times aggregately → stop for 3 second → 4 times aggregately → stop for 3 secondflashed circulatory; other code analogous.)

1# when the compressor is running normally, no restriction complication.

2# voltage restriction of power supply.

3# outdoor unit heat exchanger temperature restricted when cooling; indoor unit heat exchanger temperature restricted when heating(overload).

4# the total current restrict.

5# exhaust temperature restrict.

6# indoor unit heat exchanger temperature restricted when cooling (prevent freeze).

7# speed restrict of indoor unit's fan motor.

8# frequency modulation voltage restrict of outdoor unit.

Notice: frequency modulation voltage restrict of outdoor unit means inset an needle, then connect a potentiometer which can be adjusted, it can adjust the running frequency of compressor.

Protector stop ingredients of outdoor unit and trouble code display (The red LED lamp in module board of outdoor unit display it.)

If the air conditioner have the protector stop ingredients and some trouble when the compressor stopped, the LED lamp of outdoor unit flashed and display the protector stop ingredients and trouble code. The times the lamp flashed shows the relevant code. For example, the lamp flashed "6" times ,show the over current protect. (count method: 1 time per second, 6 times aggregately → stop for 3 second → 1 time per second,6 times aggregately → stop for 3 secondflashed circulatory; other code analogous.)

1# short circuit or open circuit in room temperature sensor.

Solve method: Inspect the Room temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 5K in the normal temperature, if open circuit, please replace the temperature sensor.

2# heat exchanger temperature sensor open circuit.

Solve method: Inspect the Room temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 5K in the normal temperature, if open circuit, please replace the temperature sensor.

3# short circuit or open circuit in exhaust temperature sensor.

Solve method: Inspect the exhaust temperature sensor whether short circuit or open circuit. Use the multimeter to measure the resistance of the room temperature sensor about 50K in the normal temperature, if open circuit, please replace the temperature sensor.

4# Direct current compressor feedback.

Solve method: cut the power off, connect the power supply again, if there have any trouble also, replace the module board of outdoor unit.

5# The trouble of bad communication of indoor unit and outdoor unit.

Solve method: 1. inspect the connecting wire between indoor unit and outdoor unit, be sure the L and N haven't connect in reverse.

2. whether the communication wire connect reliably.

3. replace the module board.

4. replace the electrical control board of indoor unit.