2. General Troubleshooting

2.1 Error Display (Indoor Unit)

When the indoor unit encounters a recognized error, the operation lamp will flash in a corresponding series, the timer lamp may turn on or begin flashing, and an error code will be displayed. These error codes are described in the following tables:

Operation Lamp	Timer Lamp	Display	Error Information	
1 time	OFF	EO	Indoor unit EEPROM parameter error	
2 times	OFF	Ei	Indoor / outdoor unit communication error	
3 times	OFF	E2	Zero-crossing signal detection error(for some models)	TS22
4 times	OFF	B	The indoor fan speed is operating outside of the normal range	TS23
5 times	OFF	E4	Indoor room temperature sensor T1 is in open circuit or has short circuited	TS26
6 times	OFF	ES	Evaporator coil temperature sensor T2 is in open circuit or has short circuited	TS26
9 times	OFF	EJ/EHOP	Indoor PCB / Display board communication error(for some models)	
7 times	OFF	EC	Refrigerant leak detected	TS28
1 times	ON	F0	Current overload protection	TS29
2 times	ON	FI	Outdoor room temperature sensor T4 is in open circuit or has short circuited	
3 times	ON	F2	Condenser coil temperature sensor T3 is in open circuit or has short circuited	
4 times	ON	F3	Compressor discharge temperature sensor TP is in open circuit or has short circuited	
7 times	ON	F6	Evaporator coil outlet temperature sensor T2B is in open circuit or has short circuited(for free-match indoor units)	
5 times	ON	F4	Outdoor unit EEPROM parameter error	TS19
6 times	ON	FS	The outdoor fan speed is operating outside of the normal range(for some models)	
1 times	FLASH	PO	IPM malfunction or IGBT over-strong current protection	
2 times	FLASH	Pi	Over voltage or over low voltage protection	
3 times	FLASH	P∂	High temperature protection of IPM module or High pressure protection	
5 times	FLASH	РЧ	Inverter compressor drive error	
7 times	FLASH	P6	High pressure protection or low pressure protection(for some models)	
6 times	FLASH	PS/	Indoor units mode conflict(match with multi outdoor unit)	

For other errors:

The display board may show a garbled code or a code undefined by the service manual. Ensure that this code is not a temperature reading.

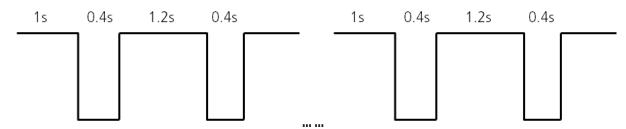
Troubleshooting:

Test the unit using the remote control. If the unit does not respond to the remote, the indoor PCB requires replacement. If the unit responds, the display board requires replacement.

For some models

Operation Lamp	Timer Lamp	LED Display	Error Information		
1 time	OFF	EH 00/EH 0R	Indoor unit EEPROM parameter error		
2 times	OFF	EL 01	Indoor / outdoor unit communication error		
3 times	OFF	EH 03	Zero-crossing signal detection error(for some models)		
4 times	OFF	EH 03	The indoor fan speed is operating outside of the normal range		
5 times	OFF	EC SI	Outdoor unit EEPROM parameter error(for some models)	TS19	
5 times	OFF	EC 52	Condenser coil temperature sensor T3 is in open circuit or has short circuited	TS26	
5 times	OFF	EC 53	Outdoor room temperature sensor T4 is in open circuit or has short circuited	TS26	
5 times	OFF	EC 54	Compressor discharge temperature sensor TP is in open circuit or has short circuited	TS26	
5 times	OFF	EC 56	Evaporator coil outlet temperature sensor T2B is in open circuit or has short circuited(for free-match indoor units)		
6 times	OFF	EH 60	Indoor room temperature sensor T1 is in open circuit or has short circuited		
6 times	OFF	EH 61	Evaporator coil temperature sensor T2 is in open circuit or has short circuited		
12 times	OFF	EC 01	The outdoor fan speed is operating outside of the normal range(for some models)		
9 times	OFF	ЕНОЬ	Indoor PCB / Display board communication error(for some models)		
8 times	OFF	EL 00	Refrigerant leak detected		
7 times	FLASH	PC 00	IPM malfunction or IGBT over-strong current protection		
2 times	FLASH	PC 01	Over voltage or over low voltage protection		
3 times	FLASH	PC 02	High temperature protection of IPM module or High pressure protection		
5 times	FLASH	PC 04	Inverter compressor drive error		
1 time	FLASH	PC 08	Current overload protection(for some models)		
7 times	FLASH	PC 03	High pressure protection or low pressure protection(for some models)		
1 times	ON		Indoor units mode conflict(match with multi outdoor unit)		

LED flash frequency:



2.2 Error Display (For Some Outdoor Units)

There are 2 LED lights (RED color and GREEN color) welded in outdoor main board. After power on, LED show different actions when encounter different problems.

No.	Problem	LED(GREEN)	LED(RED)	Solution
1	Standby normally	on	OFF	-
2	Operate normally	OFF	on	-
3	Compressor driven chip EEPROM parameter error	on	FLASH	TS19
4	IPM malfunction or IGBT over-strong current protection	FLASH	OFF	TS30
5	Over voltage or too low voltage protection	on	on	TS31
6	Inverter compressor drive error	OFF	FLASH	TS34
7	Inverter compressor drive error	FLASH	LIGHT	TS34
8	Communication error between outdoor main chip and compressor driven chip	FLASH	FLASH	TS19