

LINEA INVERTER 19 2018

Indoor Unit Error Display

Operation lamp	Timer lamp	Display	LED STATUS
☆ 1 time	X	E0	Indoor unit EEPROM parameter error
☆ 2 times	X	E1	Indoor / outdoor units communication error
☆ 3 times	X	E2	Zero-crossing signal detection error
☆ 4 times	X	E3	Indoor fan speed has been out of control
☆ 5 times	X	E4	Indoor room temperature sensor T1 open circuit or short circuit
☆ 6 times	X	E5	Evaporator coil temperature sensor T2 open circuit or short circuit
☆ 7 times	X	EC	Refrigerant leakage detection
☆ 1 times	O	F0	Overload current protection
☆ 2 times	O	F1	Outdoor ambient temperature sensor T4 open circuit or short circuit
☆ 3 times	O	F2	Condenser coil temperature sensor T3 open circuit or short circuit
☆ 4 times	O	F3	Compressor discharge temperature sensor TP open circuit or short circuit
☆ 5 times	O	F4	Outdoor unit EEPROM parameter error
☆ 6 times	O	F5	Outdoor fan speed has been out of control
☆ 1 times	☆	P0	IPM malfunction or IGBT over-strong current protection
☆ 2 times	☆	P1	Over voltage or over low voltage protection
☆ 3 times	☆	P2	High temperature protection of IPM module
☆ 4 times	☆	P3*	Outdoor ambient temperature too low.
☆ 5 times	☆	P4	Inverter compressor drive error

O (light) X (off) ☆ (flash)

*P3

- 1) In heating mode, when the outdoor temperature is lower than -25°C for 1 hour, the indoor unit display error code P3.
- 2) If the outdoor temperature is higher than -22°C for 10 minutes and compressor stop for 1 hour or outdoor temperature is higher than -5°C for 10 minutes, then the unit will return to work.

* **Fault Symptom:** The display board shows a garbled code or a code that is not an error code found in the service manual nor a temperature reading.

Trouble shooting:

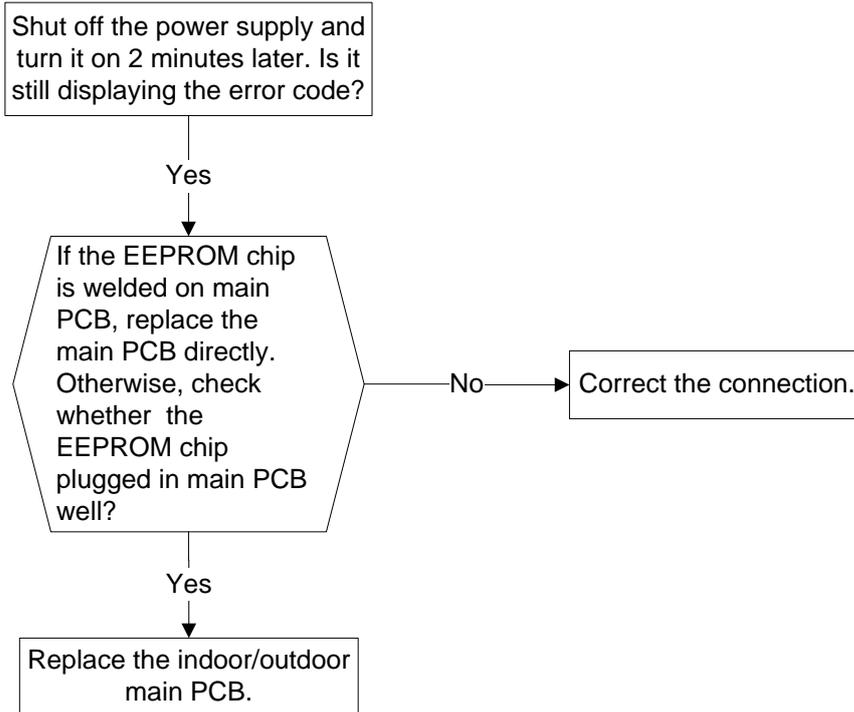
Use the remote controller. If the unit does not respond to the remote, the indoor PCB needs to be replaced; if the unit does respond, then the display board needs to be replaced.

10.2 Trouble shooting

10.2.1 EEPROM parameter error diagnosis and solution(E0/F4)

Error Code	E0/F4
Malfunction decision conditions	Indoor or outdoor PCB main chip does not receive feedback from EEPROM chip.
Supposed causes	<ul style="list-style-type: none">● Installation mistake● PCB faulty

Trouble shooting:

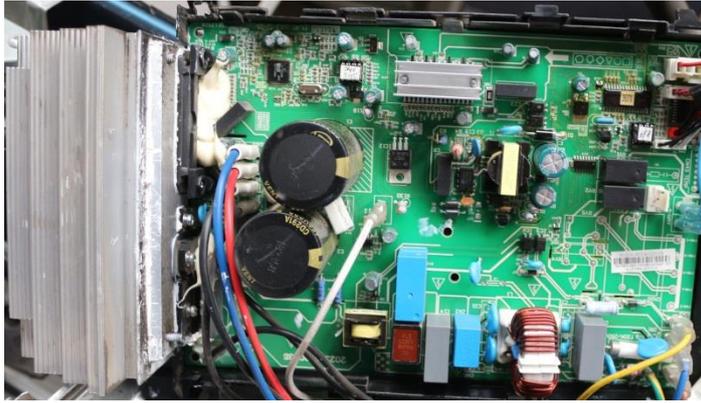


EEPROM: a read-only memory whose contents can be erased and reprogrammed using a pulsed voltage. For the location of EEPROM chip, please refer to the below photos.



Indoor PCB





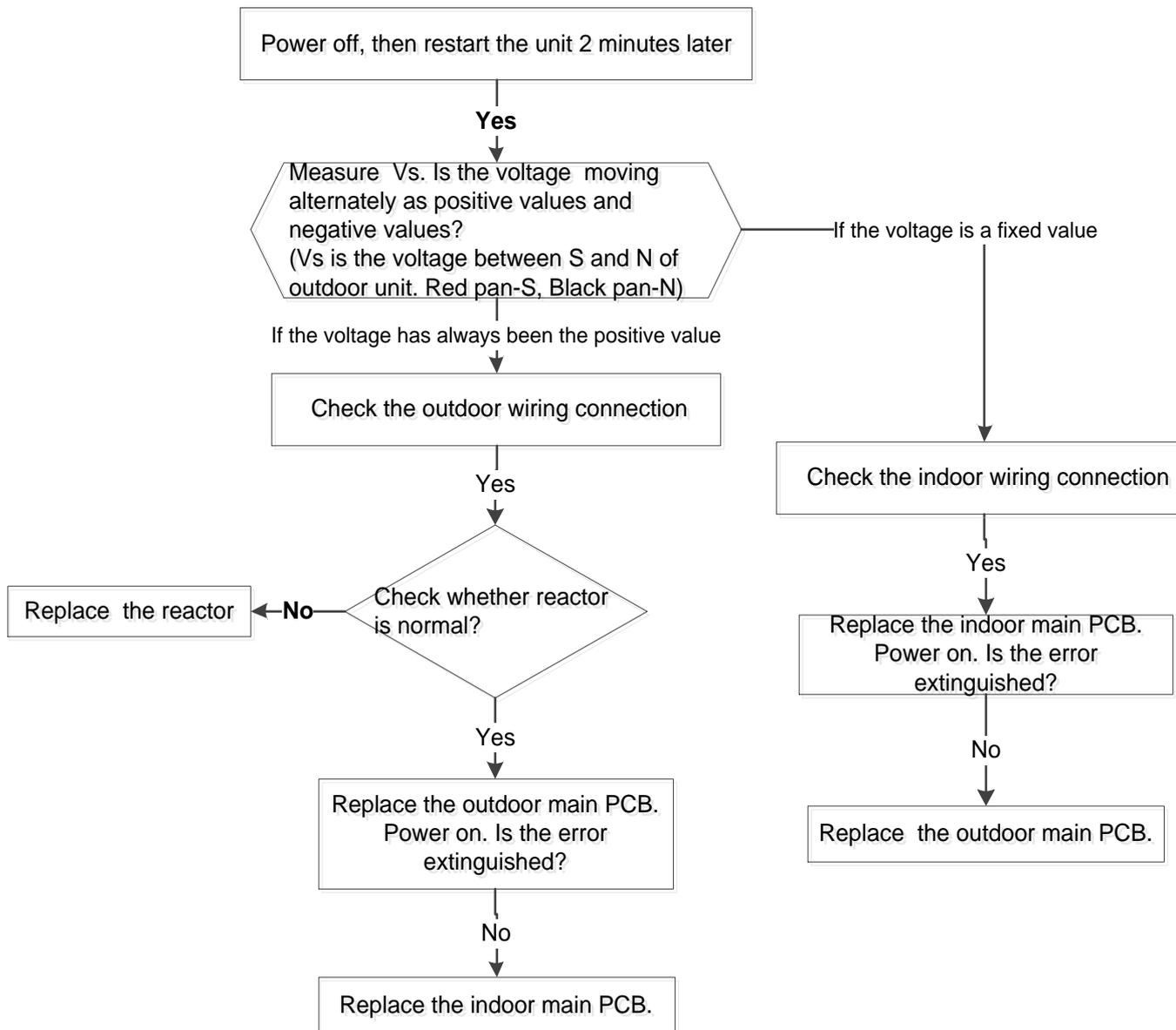
Outdoor PCB

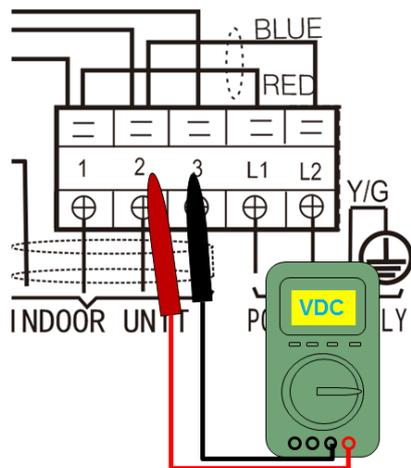
Note: The two photos above are only for reference, it's may be not same totally with the ones on your side.

10.2.2 Indoor / outdoor unit's communication diagnosis and solution(E1)

Error Code	E1
Malfunction decision conditions	Indoor unit does not receive the feedback from outdoor unit during 110 seconds and this condition happens four times continuously.
Supposed causes	<ul style="list-style-type: none"> ● Wiring mistake ● Indoor or outdoor PCB faulty

Trouble shooting:





*S and N
or
L2 and S
Or
2 and 3*

Remark:

Use a multimeter to test the DC voltage between 2 port and 3 port of outdoor unit. The red pin of multimeter connects with 2 port while the black pin is for 3 port.

When AC is normal running, the voltage will move alternately as positive values and negative values.

If the outdoor unit has malfunction, the voltage will move alternately with positive value.

While if the indoor unit has malfunction, the voltage will be a certain value.



Remark:

Use a multi meter to test the resistance of the reactor which does not connect with capacitor.

The normal value should be around zero ohm. Otherwise, the reactor must have malfunction and need to be

10.2.3 Zero crossing detection error diagnosis and solution (E2)

Error Code	E2
Malfunction decision conditions	The zero crossing signal time interval is not correct for continuous 240s
Supposed causes	<ul style="list-style-type: none">● Indoor PCB faulty

Troubleshooting:

