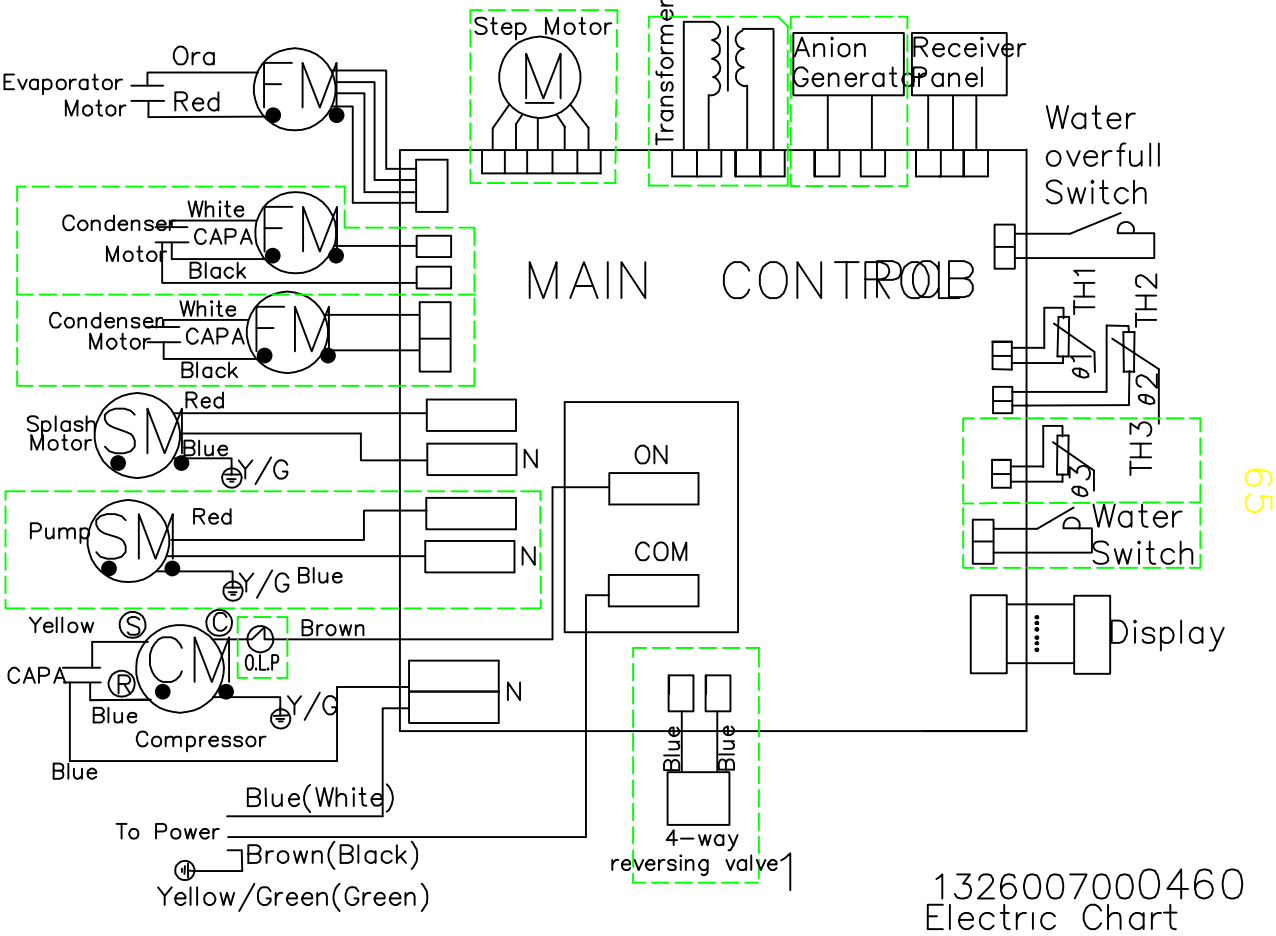


MUPO-H6 HEAT PUMP

Service manual



Wiring diagram



Error code display

When Air conditioner has problem, the display will show different error code related to different problems.

Reason	Display	Solution
TA abnormal(broken circuit or short circuit)	"E1"	See the detail solution
TE abnormal(broken circuit or short circuit)	"E3"	See the detail solution
TW abnormal(broken circuit or short circuit)	No error code	No error report, stay the same
Water full	"P1"	See the water full alarm function

Error solution• •

1. TA abnormal, indoor shows E1 keep lighting, air conditioner can run without any stop except the heating mode, other protection still valid. If under auto mode to choose the mode according to the environment temperature, please choose fan mode to run. If under cooling mode, the machine continuous running, If under dehumidifier mode, fan motor and compressor do not working, the up motor is set with low fan speed.

2. If under cooling or dehumidifier mode, TE abnormal, indoor will show "E3" keep lighting. The normal anti-frozen protection function no more working. Cooling, dehumidifier mode, carry out stopped for 5min after compressor continuous working more than 30min. If under heating mode, indoor shows"E3" keep lighting, air conditioner will stop running.

3. TE and TA happen during the same time, TE error code's special operation status will has priority

Remark• •

TA: Indoor environment temperature

TE: evaporator coil temperature

TS• Set up temperature

TW• Condensor coil temperature• •

1. Malfunction diagnosis

1-1 Items to be checked at first

1. Input voltage must be in the range of $\pm 10\%$ of rating voltage, if work voltage of air conditioner is outside of this range, air conditioner will possibly not run normally. (Enough power supply capacity must be provided)

2. Make sure the good connection between power supply plug and power supply, otherwise air conditioner will not run normally.

3. The phenomenon listed in below table occurred, which are not caused by air conditioner failure:

No	Phenomenon	Description
1	While the power supply pin plug into socket at first time and sound "tick" is heard, but air conditioner does not run.	Which indicates air conditioner is energized, as long as press "ON/OFF" on display panel or on remote controller, and the signal is received by air conditioner, which means entering setting operation..
2	While power supply pin plug into socket, the indicator lamp of "water full" flickering continuously on display panel and "tick" sounding continuously, pressing "ON/OFF" but air conditioner does not run and fan runs only.	Water of tank is not put out.
3	under dehumidifying mode, compressor does not run continuously	Under dehumidifying mode, air conditioner will control compressor work status automatically according to indoor air temperature
4	Presetting LED lamp lights on, but air conditioner does not run	Timer is in timing status and air conditioner is in standby status; if cancel timing operation, air conditioner will recover to normal status.
5	Under cooling mode, while setting temperature above room temperature, compressor does not run	Setting temperature means a temperature point of ambient temperature decreases upto by way of operation of air conditioner under cooling. While the setting temperature decreases below room temperature, compressor will run.
6	under cooling 、heating or dehumidifying mode, while air conditioner switches off and immediately switches on, only fan runs but compressor does not run	While air conditioner switches off and switches on soon, and air conditioner provides a three-minute delay protection function; three minutes later, compressor will restart to run.

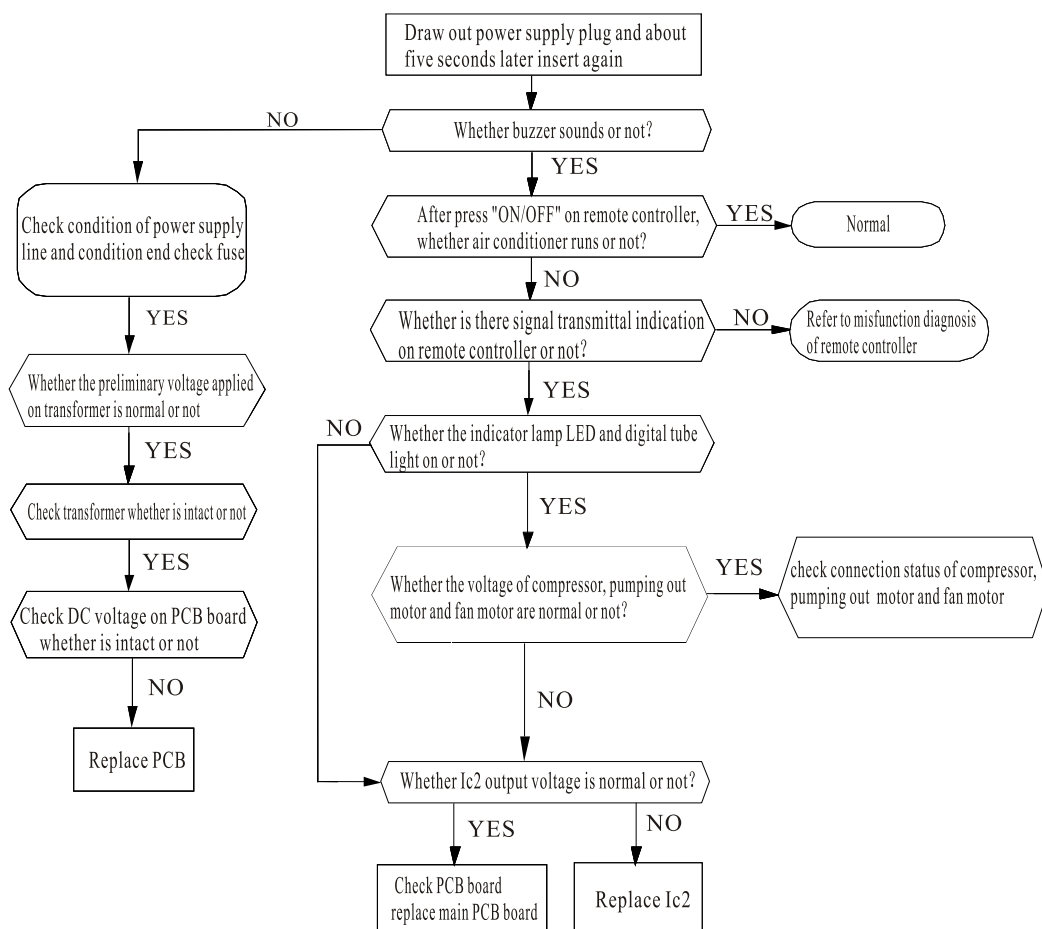
1-2 Guide to malfunction diagnosis

1-2-1 No power supply (completely no work)-preliminary diagnosis

1. Items to be checked:

- 1) Whether input voltage is right or not?
- 2) Whether the connection of AC power supply is right or not?
- 3) Whether the output voltage of manostat 7805(IC1) is right or not?

2. Flow chart of malfunction diagnosis



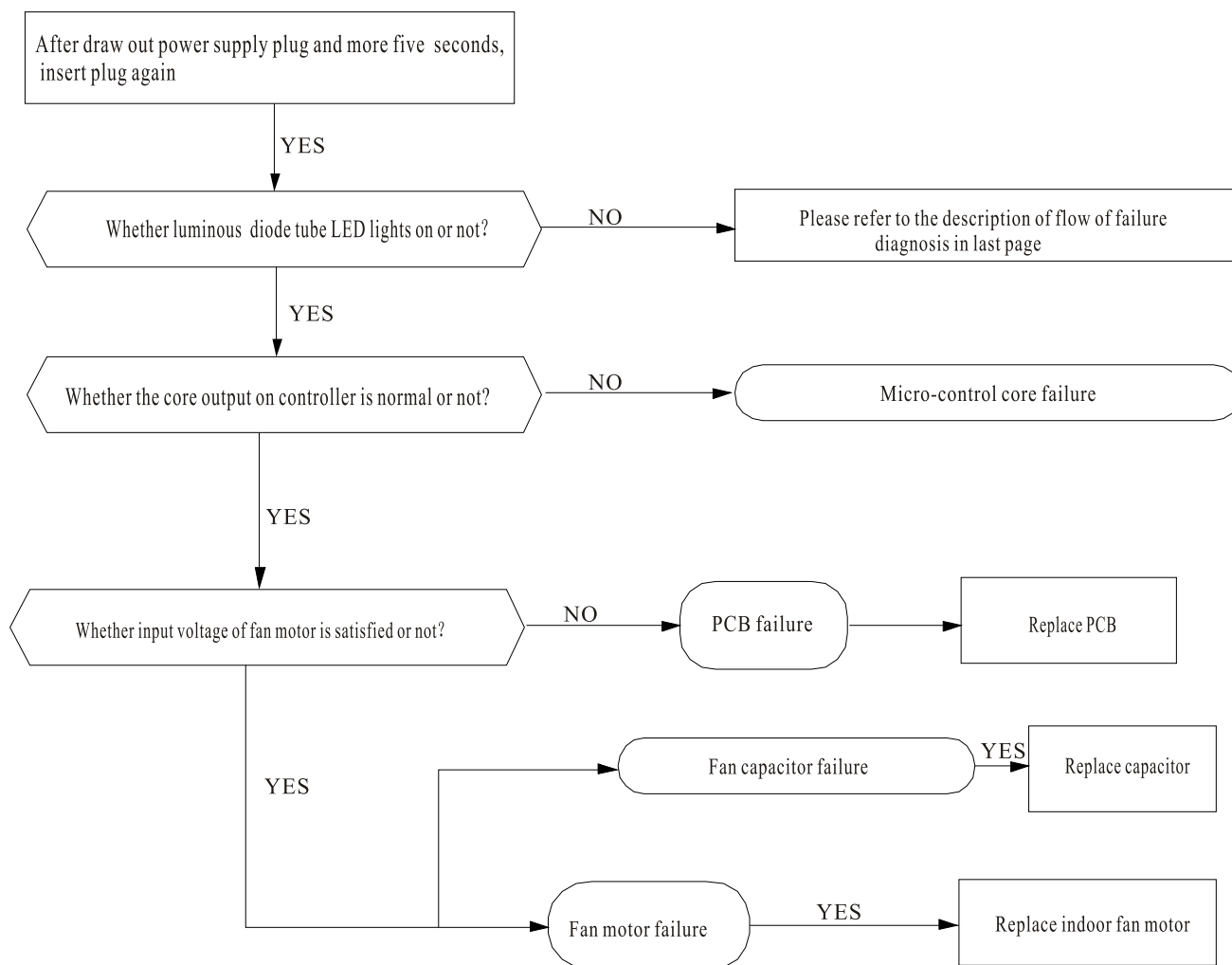
1-2-2 Indoor fan motor does not run

1.Items to be checked:

- 1) Whether indoor fan motor is connected with connector (X8) in a right way?
- 2) Whether the input voltage of AC power is right or not?
- 3) Whether the operation capacitor of indoor fan motor

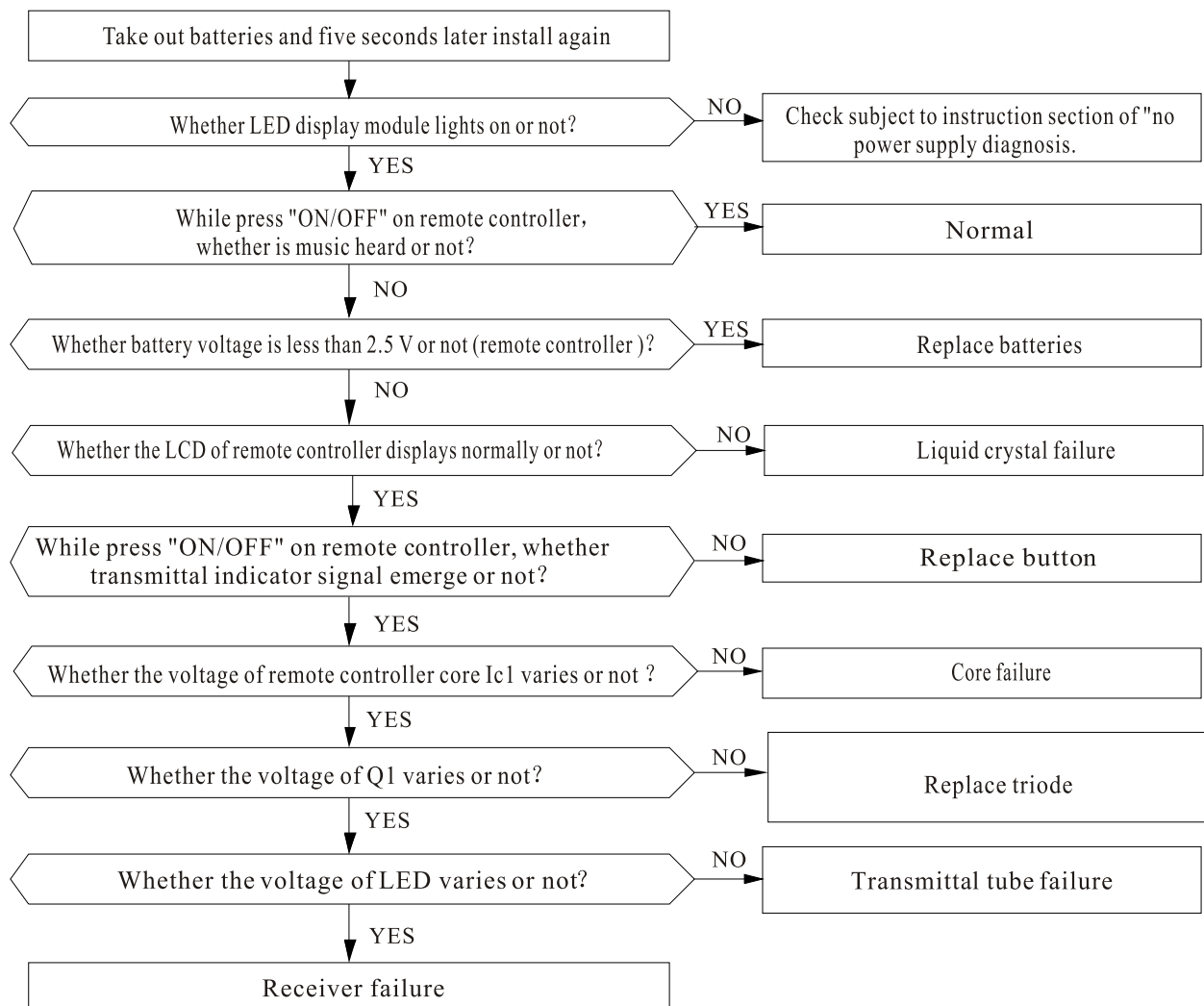
Is connected with connector CN10、CN11) in a right way or not?

2.Flow chart of malfunction diagnosis



1-2-3 Remote control can not be used

1.Flow chart of malfunction diagnosis



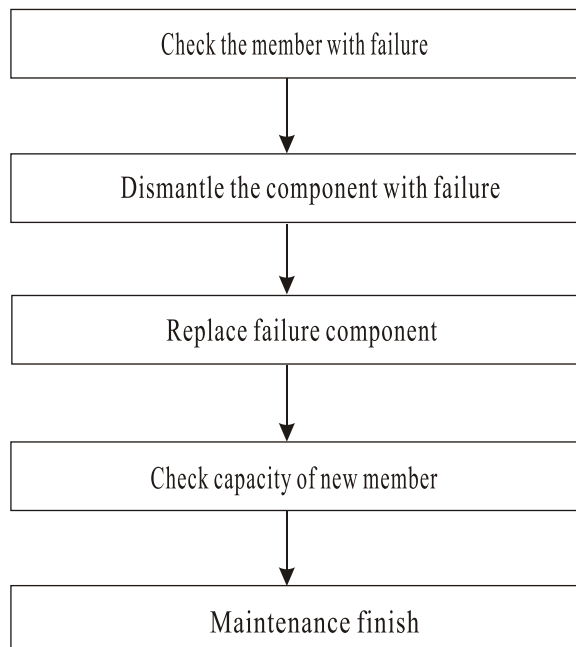
1-3 PCB check

1-3-1 points for attention while replace parts

1. Make sure that human body is grounded as a safety way or not before execute reparation and parts replacement due to human body carrying electrostatic, especially before contact some micro-computer or integrated circuit, confirm to discharge electrostatic completely (make sure whether wear an effective grounding ring in the wrist or not)
2. While execute a live reparation of parts on work bench, make sure that a insulating cushion must be provided and no metallurgic fragments on cushion. If any metallurgic fragments contact with parts, possibly, damage other section of parts.
3. Power supply must be cut off before replace components, if perform a live operation, possibly, results in electric shock, short and other damage.
4. During parts replacement or reparation, make sure that: conduct wire on circuit panel (whether there is jumper loop or not); diode location. Conduct wire and member are damaged resulting from easy to bend and shock due to coarse treatment for circuit panel.
5. Clean the conduct wire and new member by sand paper and etc before welding, otherwise the welding material will be possibly adhered to conduct wire and parts due to oxidation.
6. Avoid using electric iron with high-efficiency to weld for a long time while welding, otherwise the members with low heat resistance are easy to be damaged.
7. The quantity of heat of electric iron should be spreaded all over the object welded, otherwise welding will not be performed very well.
8. Welding material should be as little as possible while welding, too much welding material possibly causes circuit failure.

1-3-2 Process

Replace member subject to the flow as followed:



1-3-3 Detailed process

No	Malfunction	Check point	Reason
1	Disconnection power supply and check fuse on PCB	Damage or not?	<ul style="list-style-type: none"> ●Voltage exceeding ●Fan motor short
2	Connect with power supply	Check voltage	
		1. Whether is there normal AC voltage on XB or not?	<ul style="list-style-type: none"> ●Rectification circuit mistake ●Drop-down transformer does not work
		2. The DC voltage on IC5 : input→DC12V : output→DC5V	
3	Special protection mode	Check voltage	Circuit malfunction
		1. Check the control load for various relays : Relay disconnect→0.5V : Relay connect→6V	<ul style="list-style-type: none"> ●Relay malfunction

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