WIRE CONTROLLER OPERATION MANUAL

English

RWV01

● Please read this manual carefully before installation.
Keep this operation manual for future reference.

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Parts and Functions

Buttons of the wire controller

Mode switch
Choose running mode

Health switch
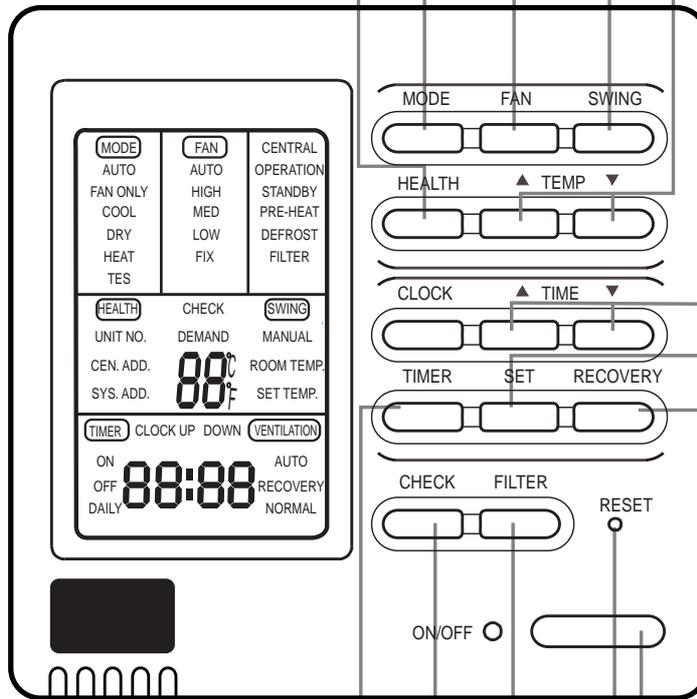Used to control oxygen
function and negative ion

Fan speed switch
Change wind speed

Swing switch
Open and close air flap

TEMP switch
Used for changing set temperature

Time switch
It is used to regulate setting time.

Clock, timing and address setting

Air change switch
It is used to open and close air
change function. The mode is as
follows:
No display-air change (automatic)-
air change (RECOVERY)-air
change (NORMAL)

ON/OFF switch
Do on and off function. The unit is
on when pressing it; and is off
when pressing it again.

Reset key
When in abnormal state, push the
reset key with a spike, which may
return the unit to normal

Timing switch
It is used for choosing
timing running

**Self-inspection
switch**
It is used for inspection
service

Filter reset
After cleaning air inlet
and filter, press
this switch. The unit
begins to run

MODE	FAN	CENTRAL
AUTO	AUTO	OPERATION
FAN ONLY	HIGH	STANDBY
COOL	MED	PRE-HEAT
DRY	LOW	DEFROST
HEAT	FIX	FILTER
TES		

HEALTH	CHECK	SWING
UNIT NO.	DEMAND	MANUAL
CEN. ADD.	88℃	ROOM TEMP.
SYS. ADD.	88℉	SET TEMP.

TIMER	CLOCK UP DOWN	VENTILATION
ON		AUTO
OFF	88:88	RECOVERY
DAILY		NORMAL

MODE   FAN   SWING

HEALTH   ▲ TEMP ▼

CLOCK   ▲ TIME ▼

TIMER   SET   RECOVERY

CHECK   FILTER   RESET

ON/OFF

1

Parts and Functions

◼ Display of the wire controller

Air volume display
Display the setting speed

Running mode display
Show the selected mode

Health function display

Unit number display
Centralized adress display
System adress display

Temperature display
Display the room temperature, setting temperature, and unit number

Timing operation display
Show timing operation content

Inspection status display

Demand display
When forced to run,"DEMAND" will be displayed , or show HH/LL in the temperature zone.

Centralized display
When controlled by centralized controller, and chosen by "centralize or lock" mode, this information is shown.

Running display
When the compressor runs, it displays.

Standby display
When the unit is on power and in "abnormity mode", or outdoor unit malfunction show alarm , "standby" is shown to reflect no need to unit.
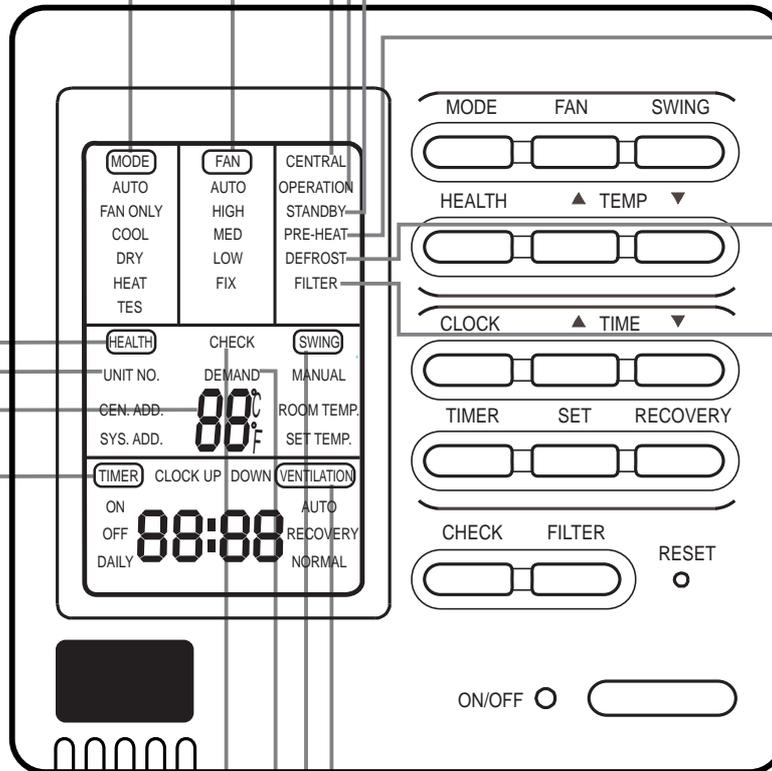
When in preheating status, "preheating" is shown.

"Defrost" is shown when defrosting.

Filter screen warning sign
When the sign is shown, please clean the filter screen

Air change display

Wind swing display

MODE   FAN   CENTRAL
AUTO   AUTO   OPERATION
FAN ONLY HIGH   STANDBY
COOL   MED   PRE-HEAT
DRY   LOW   DEFROST
HEAT   FIX   FILTER
TES

HEALTH CHECK SWING
UNIT NO. DEMAND MANUAL
CEN. ADD. 88°C ROOM TEMP.
SYS. ADD. °F SET TEMP.
TIMER CLOCK UP DOWN VENTILATION
ON   AUTO
OFF   88:88   RECOVERY
DAILY   NORMAL

MODE   FAN   SWING
HEALTH ▲ TEMP ▼
CLOCK   ▲ TIME ▼
TIMER   SET   RECOVERY
CHECK   FILTER   RESET ○
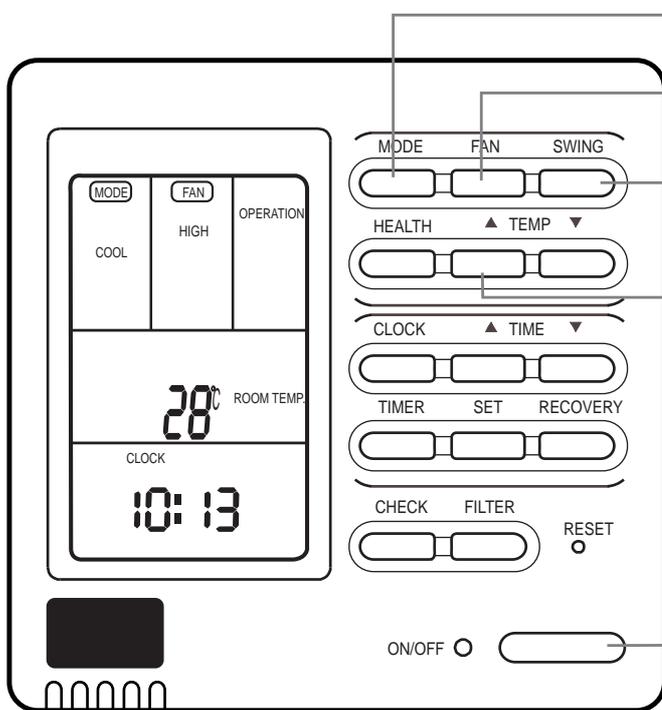ON/OFF ○

Remarks

• The models in the manual don't have health, filter reset and Air change function.

Operation

ON/OFF operation

2 Press ON/OFF switch on line controller directly
The line controller displays the running state in the latest time (timing and swing state may not be displayed).

1. Press "ON/OFF" switch.
The air conditioner starts operating, and the light on the wired controller is on.

2.Choose operation mode.
Press "mode"switch to change to
"AUTO"---"FAN ONLY"---"COOL"---"DRY"---"HEAT".

3.Press "TEMP" switch
Change set temperature:press TEMP ▲ or TEMP ▼ every time, [SET] will display,and set temperature will increase/reduce 1℃

4.Press "FAN SPEED" switch
FAN ONLY Operation:
Press "FAN SPEED" switch to change to
"HIGH"--"MED"--"LOW"--"HIGH"

In AUTO,COOL,DRY,HEAT Operation:
Press "FAN SPEED" switch to change to
"AUTO"--"HIGH"--"MED"--"LOW"--"AUTO"

5.Press "swing" switch on the line controller to swing the wind screen.

6.Press "ON/OFF"switch, off.
The light on the line controller is off.

Note

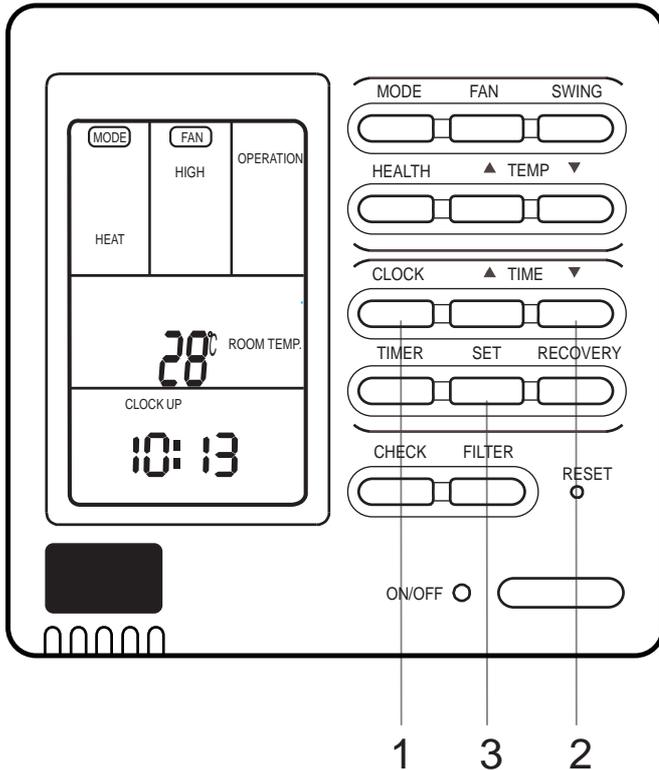Several seconds after the operation of the line controller, the setting of the unit will change.

Remarks

- Avoid pressing "ON/OFF" switch frequently.
- Do not press line controller or switches by sharp objects.
- The temperature is on the basis of the setting value. The wind temperature may not reach the setting value because of the outer air conditioner and system protection.
- When the wired controller is power on, the screen fully displays it for two seconds. and clock zone "8888"-"888"-"88"-"8" flicker for 30 seconds. All the switches are invalid at the time.

Operation

Present time setting

• The timing is based on the real time. Thus, the real time should be regulated in advance.

• The clock regulation steps are as follows:

1.Press "CLOCK" switch

"CLOCK" flickers, and the time displayed is the real time.

2.Press "▲" and "▼" to regulate the time.

The time increases a minute each time you press "▲" switch.
The time decreases a minute each time you press "▼" switch.

3.Press "setting" switch. The setting is achieved.

Notes

• If not in timing, the screen displays the real time.
• If in timing, the screen displays the timing time.
• If you want to know the real time, go to the first step.

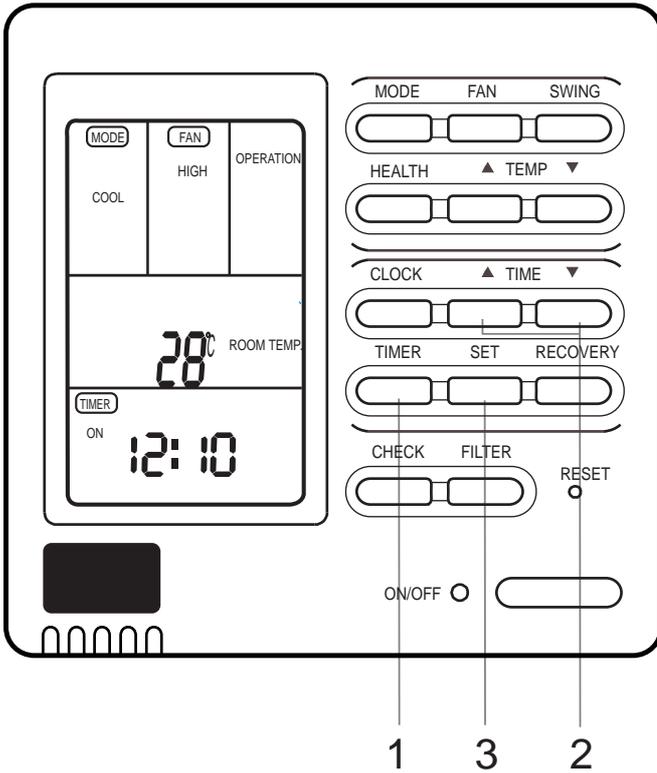**Setting of power failure compensation function**

When SW1-6 on PCB of wire controller is OFF, it will be in power failure compensation. If the SW1-6 is ON, it has no compensation function.
When the power is on after blackout, the unit will return to the former state if compensation function is set. Otherwise, it will stop. When restarting the unit, press "ON/OFF" switch on wired controller.
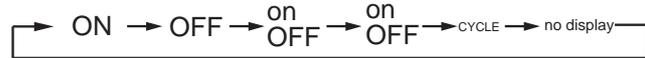
Operation

■ Timing setting

- OFF timing: when a set time has elapsed, the unit stops running.
- ON timing: when a set time has elapsed, the unit starts.

Press "ON/OFF" switch firstly, and set up operation mode. Please regulate the clock in advance before using the timing function.

```
MODE        FAN       SWING

HEALTH    ▲ TEMP  ▼

CLOCK     ▲ TIME   ▼

TIMER      SET    RECOVERY

CHECK    FILTER
                        RESET
                          ○

ON/OFF ○    (        )
```

Display panel:
```
MODE    FAN    OPERATION
        HIGH
COOL

28℃  ROOM TEMP.

TIMER
ON
12:10
```

```
  1      3      2
```

1.Press "TIME" switch.

The display changes with the following sequence:

```
┌→ ON → OFF → on    → on    → CYCLE → no display ┐
│              OFF     OFF                        │
└─────────────────────────────────────────────────┘
```

2.Set up "TIMER"

When timing ON or timing OFF flickers, press "▲" or "▼" to regulate the time
Press" ▲ "or " ▼ "set up ON/OFF time.
The setting time increases ten minutes each time you press "▲" switch.
The setting time decreases ten minutes each time you press "▼" switch.
When setting timing ON and timing OFF at the same time, press "timing" switch to change the setting item.

3.Time setting is achieved. Press"setting"switch.

Cancel timing

If you want to change the timing mode to normal operation, press "timing" until there is no timing display. When the timing is invalid, the mode is in normal operation.

parts of wired controller explanation :

1.The unit starts or stops at the setting time. Meanwhile, it displays the timing time.
2."ON Timing, OFF timing and circulation"means that the unit is on and off at the setting time everyday.

Notes

- The shorter setting time will be carried out firstly.
- If the ON timing and OFF timing are the same, the setting is invalid.
- Even in timing condition, you may start or close the unit through pressing "ON/OFF" switch.

Operation

Query indoor malfunction history:

In the state of power on or power off, press [CHECK] button, enter the malfunction-querying mode of all indoor units in the group. Then [CHECK] and [UNIT NO.] will display, and the actual indoor numbers will be displayed in some sequence (unit number is in decimals). At the same time, in the time region, there will be the current malfunction and the latest time malfunction, the displaying format is [XX:YY], in which XX stands for the current malfunction, if normal, it will display "--"; YY stands for the latest time malfunction. The failure code of every unit will display for 3 seconds. After the failure codes of all indoor units in the whole group are displayed, the mode will quit automatically.

How to change the function switches?

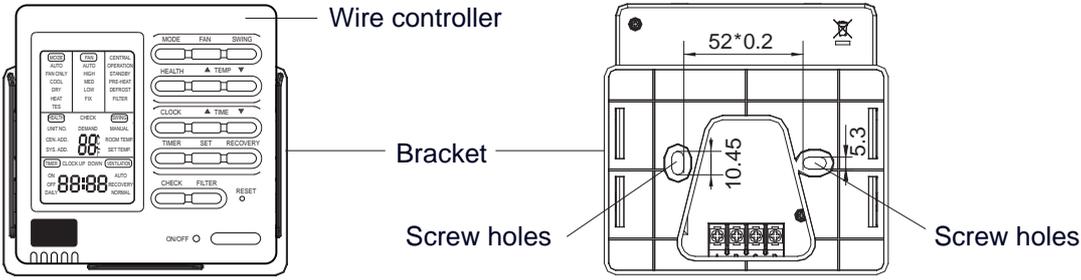| No.	Type	State of switch	Function description
SW1-1	Select the master or the slave controller	ON	set as the slave controller
		OFF	set as the master controller
SW1-2	Select the controller mode	ON	standard controller
		OFF	air handler controller
SW1-3	Room temperature display option	ON	visible room temperature
		OFF	invisible room temperature
SW1-4	26° lock	ON	Unavailable 26° lock
		OFF	available 26° lock
SW1-5	Temperature sensor position option	ON	Sensor of the controller
		OFF	Sensor in the unit
SW1-6	Auto restart	ON	unavailable
		OFF	available
SW1-7	Factory Seting	ON	default setting
SW1-8	Factory Setting	OFF	default setting

Notes

1. Switches or jumper wire must be adjusted when the wire controller is powered off. If the wire controller is powered on, the above operations will be invalid.

2. Function difference between master wire controller and slave one:

Contrastive items	Master wire controller	Slave wire controller
Function	All of functions	Only with below functions: ON/OFF, MODE, FAN SPEED, SET TEMP., SWING

Installation Manual For Wire Controller

1. Take down wire controller from the holder

Wire controller

52*0.2

10.45

5.3

Bracket

Screw holes

Screw holes

2. Install the controller holder

According to the position of 2 screw holes on the holder, drill 2 holes on the wall, and strike the wood stopper to the holes respectively.
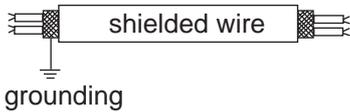
Then align the 2 screw holes of wired controller holder to the wood stopper, fix the holder on the wall with wood screw.

Note:

Try a wall as flat as possible for installation. Don't use excessive force to tighten screws, otherwise, the holder will be damaged.

3.Wiring instruction

Use shielded wire between indoor and wire controller. And be earthed on one side, or the unit will not work normally because of interference.
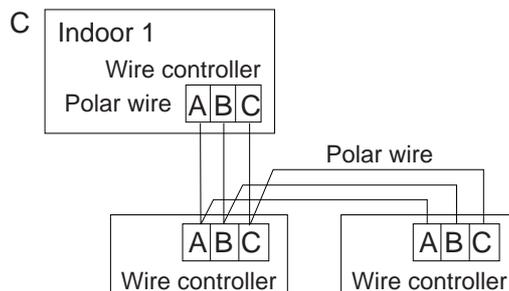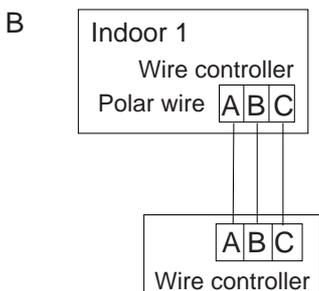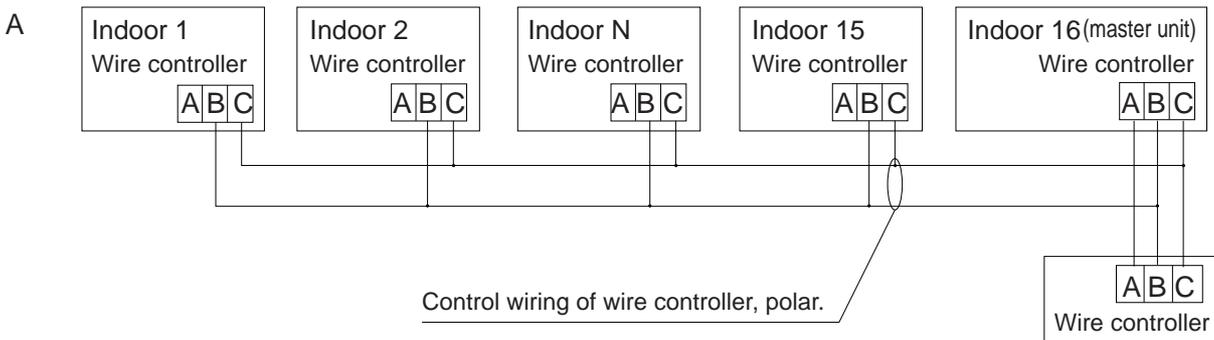
shielded wire

grounding

Note:

Confirm the terminal connection firmly, and do not get in tough with shielded wire.

Don't touch the PC panel with your hands.

4.Place wire controller on the holder, and pay attention not to pressing any wires.

5. Wiring connections of wire controller:

A

Indoor 1	Indoor 2	Indoor N	Indoor 15	Indoor 16 (master unit)
Wire controller	Wire controller	Wire controller	Wire controller	Wire controller
A B C	A B C	A B C	A B C	A B C

A B C
Wire controller

Control wiring of wire controller, polar.

B

Indoor 1
Wire controller
Polar wire A B C

A B C
Wire controller

C

Indoor 1
Wire controller
Polar wire A B C

Polar wire

A B C
Wire controller

A B C
Wire controller

Installation Manual For Wire Controller

There are three methods to connection wire controller and the indoor units:

A.One wired controller can control max. up to 16 sets of indoor units, and 3 pieces of polar wire must connect the wire controller and the master unit (the indoor unit connected with wire controller directly), the others connect with the master unit through 2 pieces of polar wire.

B. One wire controller controls one indoor unit, and the indoor unit connects with the wire controller through 3 pieces of polar wire.

C. Two wired controllers control one indoor unit. The wire controller connected with indoor unit is called master one, the other is called slave one. Master wire controller and indoor unit; master and slave wire controllers are all connected through 3 pieces of polar wire.

6. Communication wiring:

The wire controller is equipped with special communication wiring in the accessories. 3-core terminal (1-white 2-yellow 3-red) is connected with the terminal A, B, C of wire controller respectively.

The communication wiring is 5 meter long; if the actual length is more than it, please distribute wiring according to below table:

Communication wiring length(m)	Dimensions of wiring
< 100	$0.3mm^2$x3-core shielded wire
⩾ 100 and <200	$0.5mm^2$x3-core shielded wire
⩾ 200 and <300	$0.75mm^2$x3-core shielded wire
⩾ 300 and <400	$1.25mm^2$x3-core shielded wire
⩾ 400 and <600	$2mm^2$x3-core shielded wire

*One side of the shielded sheet of communication wire must be earthed.