

DWCR2

User Manual

DWCR2

Wired Controller



Thank you for choosing the DWCR2 Wired Controller. Please read this user manual carefully before operation and retain it for future reference.

Lit 12012511

User Notices

For correct installation and operation, please read all instructions carefully.

Before reading the instructions, please be aware of the following items:

- ◆ It is prohibited to install the wired controller in wet places or direct sunlight.
- ◆ Do not knock, throw or frequently disassemble the wired controller.
- ◆ Do not operate the wired controller with wet hands.
- ◆ Do not remove or install the wired controller by yourself. If there are any questions, please contact Tech Support at 1-844-873-4445.
- ◆ The wired controller is generic and applicable for several models. Some functions of the wired controller are not available for certain models. For more detail, please refer to the user manual of the indoor unit. Setting of unavailable functions will not affect the unit's operation.

Contents

1 Display	1
1.1 Appearance	1
1.2 Instructions for Related Displayed Symbols.....	2
2 Buttons	3
2.1 Button Graphics	3
2.2 Function Instructions of Buttons.....	4
3 Operation Instructions.....	4
3.1 Menu Structure.....	4
3.2 On/Off.....	5
3.3 Mode Setting	6
3.4 Temperature Setting.....	7
3.5 Fan Setting.....	7
3.6 Louver Setting	7
3.7 Functions Setting	10
3.8 Unit Status View	18
3.9 Current Error View	20
3.10 Timer Setting	22
3.11 Clock Setting	31

3.12 Lock Setting	33
4 Installation Instructions	34
4.1 Parts and Dimension of Wired Controller	34
4.2 Installation Requirements	35
4.3 Installation Methods	36
4.4 Disassembly	37
















1 Display






1.1 Appearance



Fig.1 Appearance of wired controller

1.2 Instructions for Related Displayed Symbols

No.	Symbols	Instructions
1		Up and down louver (swing) function
2		Left and right louver (swing) function
3	<i>This row left intentionally blank.</i>	
4		Sleep function
5		Auto mode
6		Cooling mode
7		Dry mode
8		Fan mode
9		Heating mode
10	<i>This row left intentionally blank.</i>	
11		I-Demand function
12		Absence function
13		Shielding status (Buttons, temperature, ON/OFF, mode or energy saving is shielded by remote monitor)
14		Current set fan speed
15		Memory function (Memory in power failure)
16		Save function
17		X-fan function

18		Remind to clean the filter
19		Timer on status
20		Access card absent, off status or unoccupied status
21		Quiet function
22		Function lock

2 Buttons

2.1 Button Graphics

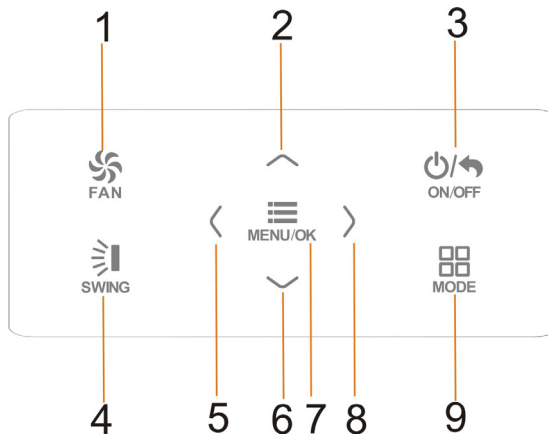


Fig. 2 Button graphics

2.2 Function Instructions of Buttons

No.	Button name	Button Function
1	FAN	Set low speed, low-medium speed, medium speed, medium-high speed, high speed, turbo and auto speed.
2	∧	(1) Set temperature (2) Set parameter (3) Move option cursor
6	∨	
3	ON/OFF/BACK	(1) Turn on or turn off unit (2) Return to last page
4	LOUVER	Set up&down louver (swing) and set left&right louver (swing)
5	<	(1) Set related function on or off (2) Move option cursor (3) Set parameter
8	>	
7	MENU/OK	(1) Enter menu page (2) Confirm setting
9	MODE	Set auto, cooling, dry, fan and heating modes for indoor unit.

3 Operation Instructions

3.1 Menu Structure

Normal setting of wired controller can be set directly on the main page, including fan speed, louver (swing), set temperature, mode, ON/OFF. The setting and status view of other functions can be set in corresponding submenu. Detailed menu structure is shown in Fig. 3.

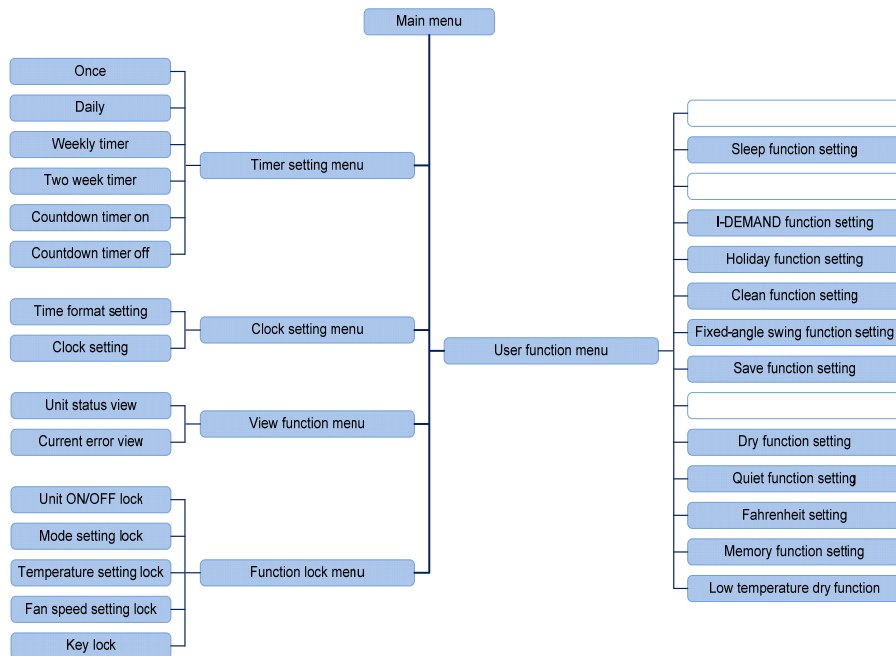


Fig. 3 Menu structure

3.2 On/Off

When the wired control is on main page, press ON/OFF button to turn on the unit. Press ON/OFF button again to turn off the unit. The interfaces of On/Off status are shown in Fig. 4 and Fig. 5.



Fig. 4 Off interface



Fig. 5 On interface

3.3 Mode Setting

Under On status, pressing MODE button can set mode as:



Note: If save function is on, auto mode is not available.

3.4 Temperature Setting

Under unit on status, pressing “^” or “v” button on the main page increases or decreases set temperature by 1°F(1°C); holding “^” or “v” button increases or decreases set temperature by 1°C(1°F) every 0.3s.

In cooling, dry, fan and heating mode, temperature setting range is 61°F ~86°F (16°C~30°C). Under auto mode, set temperature cannot be adjusted.

3.5 Fan Setting

Under On status, pressing FAN button can set fan speed circularly as:

Low→Medium low→Medium→Medium high→High→Turbo→Auto→Low

Symbols displayed are as shown in Fig. 6.




Fig. 6 Fan setting

3.6 Swing Setting

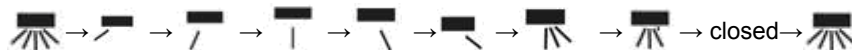
In unit on status, press SWING button for louver setting. Two louver modes are available: fixed-angle louver and simple louver.

When fixed-angle louver mode is set, louver operation is as follows:

In unit on status, press SWING button to select up&down louver.  Up&down swing angle is adjusted as below:





Select up&down and left&right louver through “<” or “>” button. Select left&right louver, and left&right swing angle is adjusted as below:



Note:

- ① Turn on fixed-angle louver mode in function setting page.
- ② If fixed-angle louver is not available for the model, fixed-angle louver is invalid when the wired controller turns on fixed-angle louver mode.

Simple louver mode: when fixed-angle louver mode is turned off, louver operation is as below:

Press SWING button under unit on status, up&down louver frame occurs. Press SWING button to turn on or turn off up&down louver.  is displayed when up&down louver is on and is not displayed when up&down louver is off. When up&down louver frame does not disappear, press “<” or “>” button to switch to left&right louver setting. Then, the left&right louver frame occurs. Press SWING to turn on or off left&right louver.  is displayed when left&right louver is on and is not displayed when left&right louver is off. For detailed operation, please refer to Fig. 7.



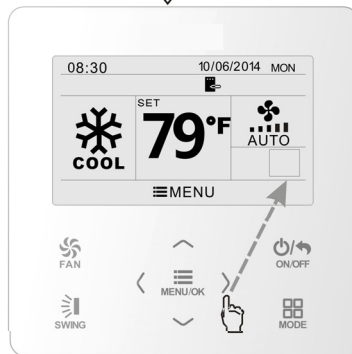
Press SWING button to enter swing setting status



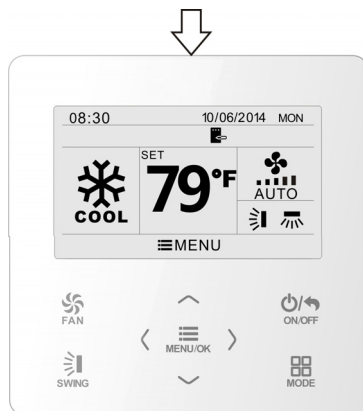
Press SWING button to turn on or turn off simple up&down swing and fixed-angle up&down swing



Press SWING button to turn on or turn off simple left&right swing and fixed-angle left&right swing



Press "<" or ">" button to switch between up&down swing and left&right swing setting



After finishing setting, setting status will be exited automatically after 5s.

Fig. 7 Swing setting

3.7 Functions Setting

Press MENU/OK button on main page to enter main menu page. Press “^” or “v” or “<” or “>” button to select the function setting symbol. Then press MENU/OK button to enter user function setting page. Press “^” or “v” button to select specific function item. Press “<” or “>” button to turn on or turn off this function. If the function item cannot be set, it displays with a gray color. Please refer to Fig. 8.

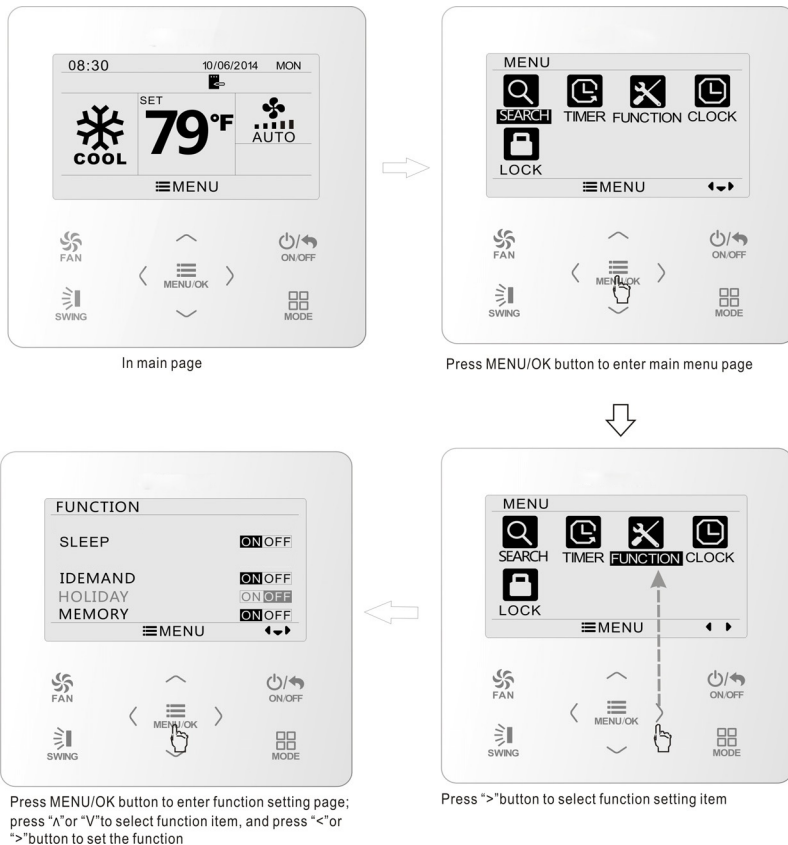


Fig. 8 Function setting

3.7.1 Sleep Function Setting

Enter user function page, and press “^” or “v” button to select sleep function, and press “<” or “>” button to turn on or turn off sleep function with auto saving.

If this function is turned on, the unit will operate according to the preset sleep curve to provide a comfortable sleep environment.

Note:

- ① In fan or auto mode, the sleep function is not available;
- ② Sleep function is canceled when turning off the unit or switching modes.

3.7.2 *This section left intentionally blank*

3.7.3 I-DEMAND Function Setting

After entering user function page, press “ \wedge ” or “ \vee ” button to select IDEMAND function option and press “ $<$ ” or “ $>$ ” button to turn on or turn off this function with auto saving.

Note:

- ① This function is only available in cooling mode.
- ② When this function is set, the set temperature is displayed as 81°F (27°C). In this case, temperature setting and fan speed setting are shielded.
- ③ This function is canceled when turning off the unit or switching modes.
- ④ This function and sleep function cannot be on simultaneously. If I-demand function is set first and then the sleep function is set, I-demand function is canceled while sleep function is valid, and vice versa.

3.7.4 Absence Function Setting

After entering user function page, press “ \wedge ” or “ \vee ” button to select holiday function option and press “ $<$ ” or “ $>$ ” button to turn on or turn off this function with auto saving.

This function is used to maintain indoor temperature so that the unit can realize fast heating.

Note:

- ① This function is only available in heating mode;
- ② When this function is set, the set temperature is displayed as 46°F(8°C). In this case, temperature setting and fan speed setting are shielded;
- ③ This function is canceled when switching modes;
- ④ This function and sleep function cannot be on simultaneously. If absence function is set first and then the sleep function is set, the absence function is canceled while the sleep function is valid, and vice versa.

3.7.5 Memory Function Setting

Enter the user function page, and press “ \wedge ” or “ \vee ” button to select memory function. Then, press “ $<$ ” or “ $>$ ” button to turn on or turn off memory function with auto saving.

3.7.6 Save Function Setting

Enter user function page. Press “ \wedge ” or “ \vee ” button to select save function and press “ $<$ ” or “ $>$ ” button to turn on or turn off save function. Press MENU button to enter save function setting page.

Enter the save function setting page, and press “ $<$ ” or “ $>$ ” button to select cooling or heating limitation temperature. After selecting cooling or heating limitation temperature, press “ \wedge ” or “ \vee ” button to adjust limitation temperature value. After setting, press MENU button to save the setting.

Note: When save function is set, auto mode cannot be set.

3.7.7 *This section left intentionally blank*

3.7.8 X-fan Function Setting

Enter user function page, press “ \wedge ” or “ \vee ” button to select dry function option, and press “ $<$ ” or “ $>$ ” button to turn on or turn off this function with auto saving.

Note:

- ① This function is only available in cooling mode and dry mode;
- ② When this function is on, if the air conditioner is turned off, the indoor fan will still operate at low speed for a while to dry the residual water inside the unit.

3.7.9 Quiet Function Setting

Enter the save function setting page, and press “<” or “>” button to select quiet function. Press “<” or “>” button to turn on or turn off this function with auto saving.

Note: This function is only available in cooling mode, heating mode, and auto mode.

3.7.10 Filter Clean Reminder Setting

Enter the save function setting page, and press “<” or “>” button to select clean function option. Press “<” or “>” button to turn on or turn off this function. Press MENU button to enter the setting page of filter clean reminder function.

Enter setting page of filter clean reminder function. Press “^” or “v” button to select pollution level. Press “<” or “>” button to set environmental level. Press “^” or “v” button to select accumulating time setting and then press “<” or “>” button to set required time. Press MENU button to save the setting.

When level 1 is selected, the adjusting range of accumulating operating time is 5500~10000 hours, with 500 hours in each increase or decrease.

When level 2 is selected, the adjusting range of accumulating operating time is 1400~5000 hours, with 400 hours in each increase or decrease.

When level 3 is selected, the adjusting range of accumulating operating time is 100~1000 hours, with 100 hours in each increase or decrease.

This function is used to remind you to clean the filter when the unit's own operating time reaches your setting.

Whenever you turn off this function, the unit's operating time is zero.

3.7.11 Fahrenheit Temperature Setting

Enter the user function page, press “ \wedge ” or “ \vee ” button to select Fahrenheit temperature function, and press “ $<$ ” or “ $>$ ” button to turn on or turn off this function with auto saving. After closing this function, Fahrenheit temperature is displayed.

3.7.12 Fixed-angle Swing (Louver) Mode Setting

Enter the user function page. Press “ \wedge ” or “ \vee ” button to select lock louver function option, and press “ $<$ ” or “ $>$ ” button to turn on or turn off this function with auto saving.

Note: If fixed-angle louver function is not available for the connected unit, this function is canceled automatically after setting.

3.7.13 Low-temperature Drying Function Setting

After entering user function page, press “ \wedge ” or “ \vee ” button to select low-temperature drying function and press “ $<$ ” or “ $>$ ” button to turn on or turn off this function with auto saving.

Note:

- ① This function is only available in dry mode;
- ② When low-temperature drying function is on, the displayed set temperature in dry mode is 61°F(16°C). This function turns off automatically after the set temperature is readjusted.

3.8 Unit Status View

Press MENU button to enter the menu. Select the function symbol to be viewed. Then, press MENU button to enter view function page. Press “^” or “\” button to select status view function. Press MENU button to enter unit status view page. Press BACK button to return to the last page.

This page left intentionally blank

3.9 Current Error View

When error occurs in the unit, error symbol is displayed on the main page of wired controller to indicate that the system has an error. In this case, you can enter error view page to view the current error.

Press MENU button to enter the menu and select the function symbol to be viewed. Then press MENU button to enter view function page. Press “^” or “v” button to select error information. Press MENU button to enter error view page. If there are multiple errors, press “^” or “v” to turn pages. Press BACK button to return to the last page. Please refer to Fig. 10.



Fig. 10 Current Error View

3.10 Timer Setting

The wired controller can set 6 kinds of timers: one time clock timer, everyday timer, one week timer, two week timer, countdown timer on, and countdown timer off. Select timer symbol after entering menu page. Press MENU button to enter timer setting page. Press “^” or “v” button to select one kind of timer. Press “<” or “>” button to turn on or turn off this timer. Please refer to Fig. 11.



Fig. 11 Turn on or turn off timer

3.10.1 One Time Clock Timer

The wired controller can set one time clock timer. If the unit is off, timer on can be set. If the unit is on, timer off can be set. This timer is carried out for only once when timer time is reached and then the timer is turned off automatically.

In timer function setting page, when one time timer is selected, press “<” or “>” button to turn on or turn off this timer function. Press MENU button to enter timer time setting page, as shown in Fig. 12.

Press “<” or “>” button to select timer hour or minute and press “^” or “v” button to adjust time. Holding “^” or “v” button increases or decreases time rapidly. After finishing setting, press MENU button to save timer time.



Fig. 12 Setting page of one time clock timer

Note: If this timer function is turned on, when the unit is turned on or turned off, this timer function is canceled automatically.

3.10.2 Daily Timer

In daily timer, user can set eight segments of timer individually. The individual segment is valid only when it is turned on. In each segment, you can set the time, unit ON/OFF, set temperature in cooling (it is valid only when the current mode is cooling), set temperature in heating (it is valid only when the current mode is heating). Please refer to Fig. 13.

Enter the daily timer setting page, and press “<” or “>” button to select setting item.

Press “^” or “v” button to adjust the value. Press MENU button to save setting.

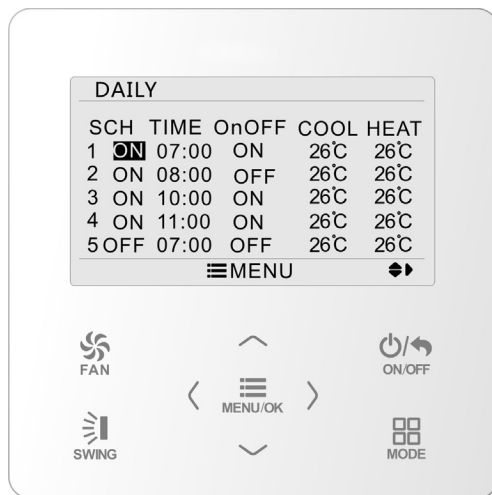
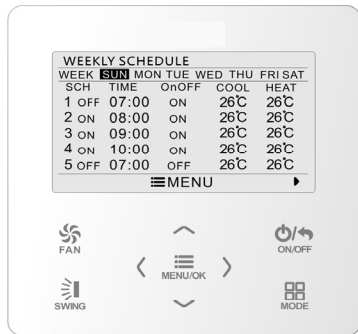


Fig. 13 Daily timer setting

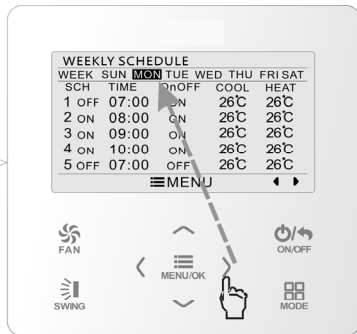
3.10.3 Weekly Timer

The user can set the everyday timer content for a week. In each day, the user can set eight segments of timer content. The unit will execute corresponding timer setting for a week.

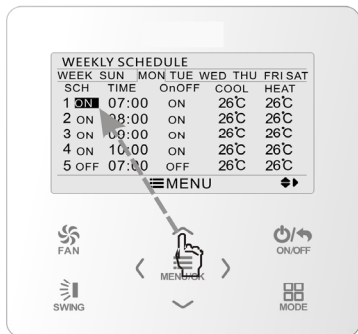
After entering weekly timer setting page, press “<” or “>” button to select the day to be set. Then press MENU button to enter timer programming of that day. Press “<” or “>” button to select the item to be set. Press “^” or “v” button to adjust the content. Press MENU button to save setting. Please refer to Fig. 14.



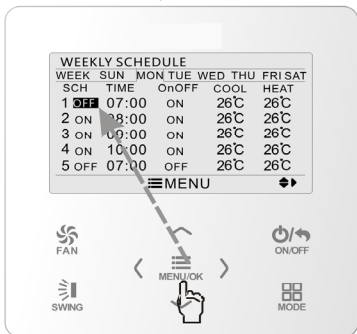
Enter weekly timer schedule setting page



Press “<” or “>” button to select the day to beset



Press “^” or “v” button to adjust the content



Press MENU/OK button to enter timer programming of that day

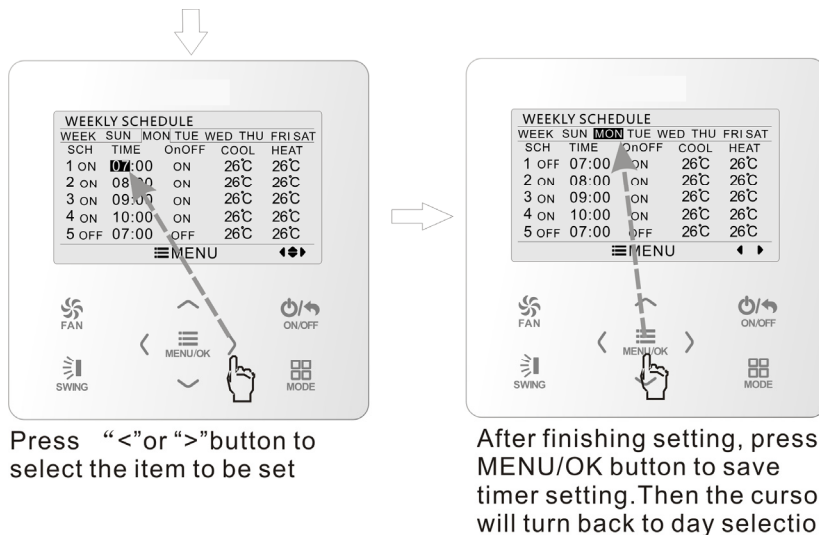


Fig. 14 Weekly timer setting

3.10.4 Two Week Timer

The user can set the everyday timer content for two weeks. In each day, the user can set eight segments of timer content. The unit will execute corresponding timer setting for two weeks.

In timer function setting page, press “^” or “v” button to select two week timer setting and then press MENU button to enter two week timer menu page. Press “^” or “v” button to select current week option and then press “<” or “>” button to set

current week as first week or second week. Press MENU button to save current week setting. Please refer to Fig. 15.

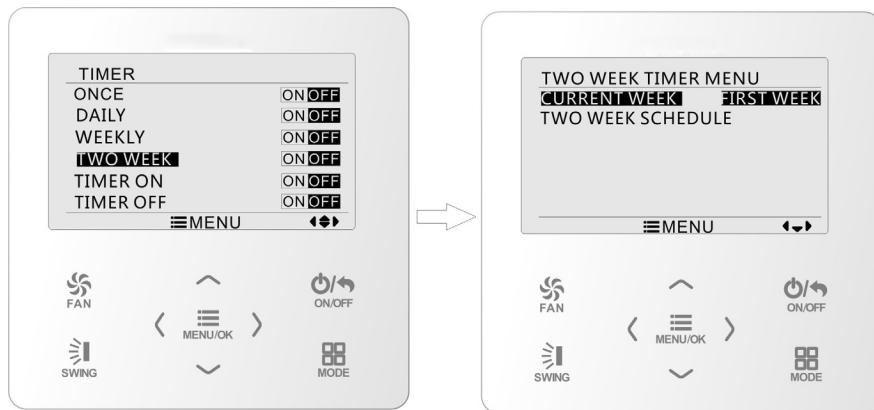


Fig. 15 Setting of current week

After entering two week timer menu page, press “^” or “v” button to select the two week schedule option and then press MENU button to enter two week timer programming. After entering two week timer setting page, press “<” or “>” button to select the day to be set. Then press MENU button to enter timer programming of that day. Press “<” or “>” button to select the item to be set. Press “^” or “v” button to adjust the content. Press MENU button to save setting. Press BACK button to exit this page. For setting symbols, please refer to weekly timer setting.

3.10.5 Countdown Timer

Countdown timer includes timer on and timer off. Unit On/Off after a desired hour can be set. In unit on status, timer off can be set, or timer off and timer on can be set simultaneously. In unit off status, timer on can be set, or timer off and timer on can be set simultaneously. If timer off in **x** hours and timer on in **y** hours are set simultaneously in unit on status, the unit is off in **x** hours and then the unit is on in **y** hours after timer off.

After entering timer on setting page, press “^” or “v” button to increase or decrease timer time by 0.5 h. Press BACK button to return to the last page. Please refer to Fig. 16.



Fig. 16 Countdown timer on

After entering timer off setting page, press “ ” “^” or “v” button to increase or decrease timer time by 0.5 h. Press BACK button to return to the last page. Please refer to Fig. 17.



Fig. 17 Countdown timer off

If timer function is on, the set hours will decrease as the unit operation time increases. In this case, residual hours can be viewed after entering timer setting page. This timer function is carried out only once and then it is canceled automatically.

Note: Once the timer function is turned on, if the unit is turned on or turned off, this timer function is canceled automatically.

3.11 Clock Setting

3.11.1 Time Format Setting

The user can set the time format in 12-hour system or 24-hour system. Select clock symbol in menu page and then press MENU button to enter clock setting page. Press “^” or “v” button to select time format and then press “<” or “>” button to select 12-hour system or 24-hour system. Please refer to Fig. 18.

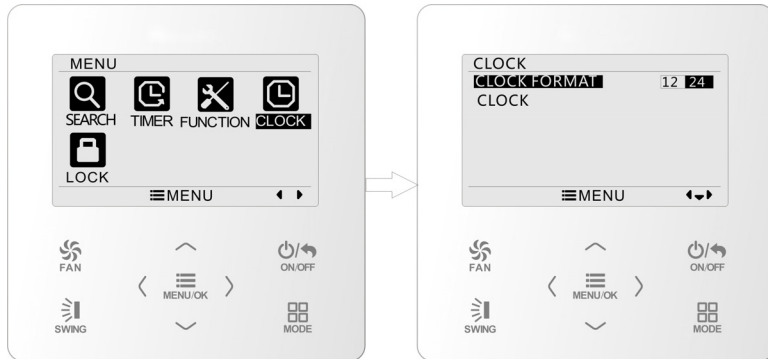


Fig. 18 Time format selection

3.11.2 Clock Setting

Select clock symbol in menu page and then press MENU button to enter clock setting page. Press “^” or “v” button to select time set and then press MENU button to enter time setting.

Press “<” or “>” button to select setting items: hour, minute, year, month, day;
press “^” or “v” button to set the value and then press MENU button to save setting.
Please refer to Fig. 19.

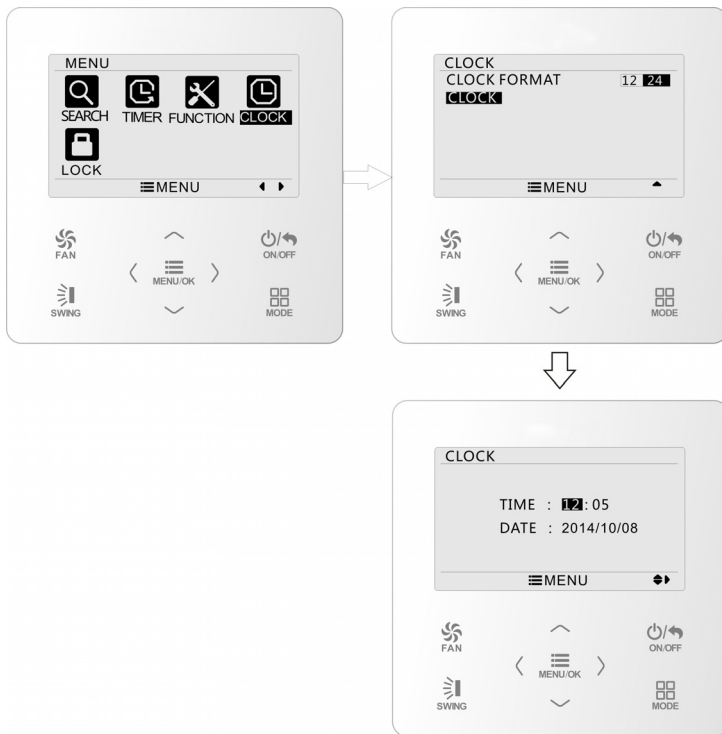


Fig. 19 Clock setting

3.12 Lock Setting

Select lock symbol in menu page and then press MENU button to enter lock setting page. Press “^” or “v” button to select the item to be locked and then press “<” or “>” button to lock or unlock. Please refer to Fig. 20. Items that can be locked: ON/OFF, mode setting, temperature setting, fan speed setting, key lock. After locking, the locked items cannot be changed.

If the keys are locked, all keys cannot be operated after returning to the main page. Please unlock according to the instructions on main page. During unlocking, press MENU button, press “<” button and then press “>” button to unlock keys.

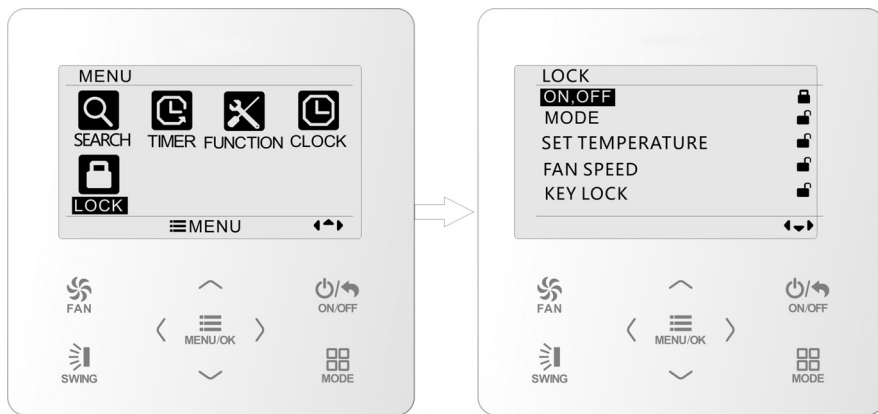


Fig. 20 Lock setting

4 Installation Instructions

4.1 Parts and Dimension of Wired Controller

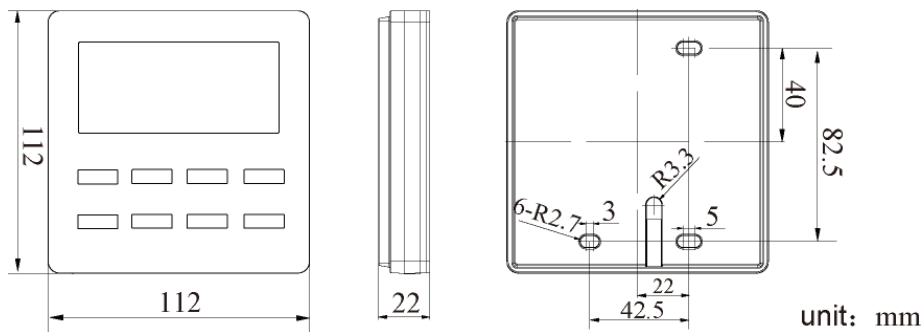


Fig. 21 Dimension of wired controller

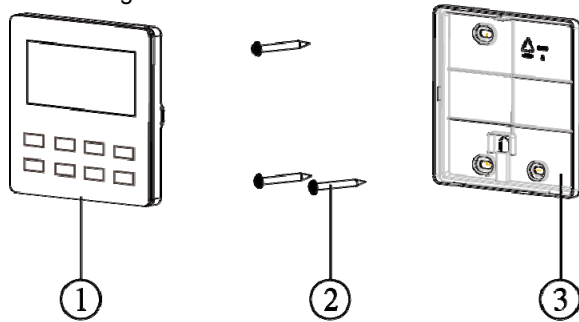


Fig. 22 Parts of wired controller

No.	1	2	3
Name	Panel of wired controller	Screw M4X25	Base of wired controller
Quantity	1	3	1

4.2 Installation Requirements

- (1) DO NOT install the wired controller in damp places;
- (2) DO NOT install the wired controller in direct sunlight;
- (3) DO NOT install the wired controller in a place near high temperature objects or flowing water.

4.3 Installation Methods

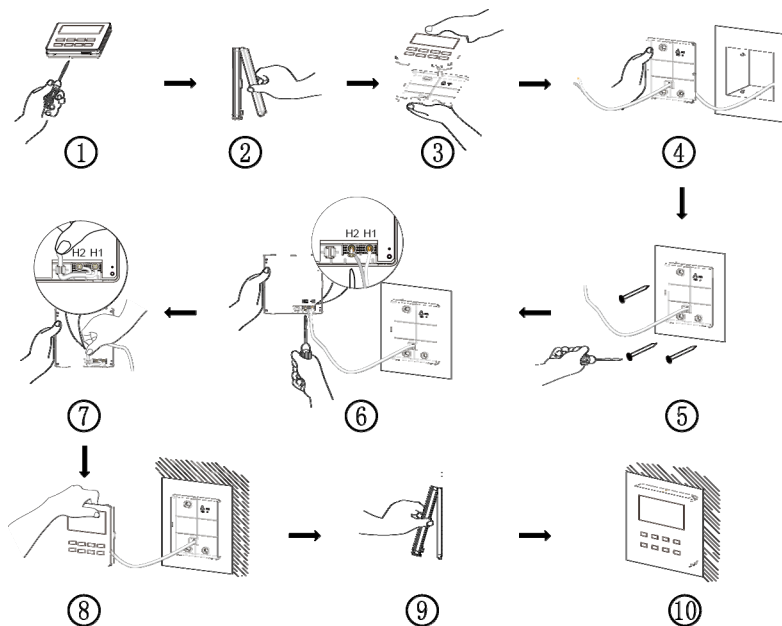


Fig. 23 Installation diagram for wired controller

Fig. 23 is the simple installation process of wired controller; please pay attention to the following items:

- (1). Before installation, please cut off the power for indoor unit;
- (2). Pull out the 2-conductor twisted pair wire from the installation hole on wall, and pull

this wire through the “D” hole at the bottom side of the base of the wired controller;

(3). Screw the base of the wired controller onto the wall and then use screw M4×25 to attach the base and back plate on the wall together.

(4). Connect two-conductor twisted pair wire to H1 and H2 terminals and then tighten the screws (observe polarity);

(5). Block the 18AWG two-conductor wire into the groove on the left side of the wiring column. Bundle the front panel of wired controller to its base.

Note: If the procedures in point 2 and point 5 mentioned above are hard to do because the diameter of the selected communication wire is too thick, peel off the sheathed layer to the appropriate length.

4.4 Disassembly

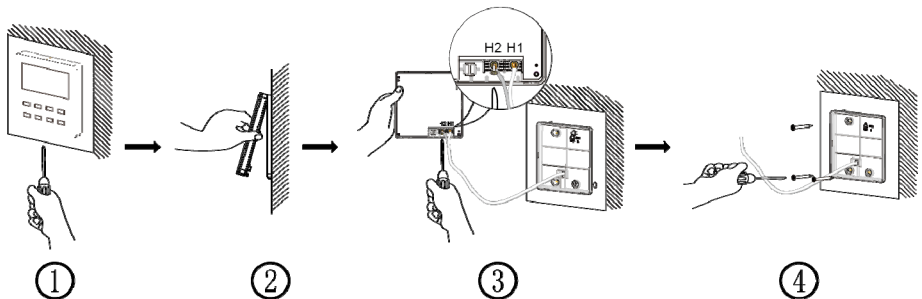


Fig. 24 Disassembly diagram for wired controller

