

*WIRE CONTROLLER OF AIR CONDITIONER*

ENGLISH

# RCW6 INSTALLATION & OPERATION MANUAL

Thank you very much for purchasing our product.  
Before using your unit, please read this manual carefully and keep it for future reference.





- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

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# 1. SAFETY PRECAUTIONS

- Read the safety precautions carefully before installing the unit.
- Stated below are important safety issues that must be obeyed.

 <b>WARNING</b>	Means improper handling may lead to personal death or severe injury.
 <b>CAUTION</b>	Means improper handling may lead to personal injury or property loss.



## WARNING

Please entrust the distributor or professionals to install the unit.  
 Installation by other persons may lead to imperfect installation, electric shock or fire.  
 Adhere to this installation manual.  
 Improper installation may lead to electric shock or fire.  
 Reinstallation must be performed by professionals.  
 Improper installation may lead to electric shock or fire.

Do not uninstall the unit randomly.  
 Random uninstalling may lead to abnormal operation, heating or fire of the air condition.



## NOTE

- ① Do not install the unit in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the wire controller, fire may occur.
- ② Do not operate with wet hands or let water enter the wire controller. Otherwise, electric shock may occur.
- ③ The wiring should adapt to the wire controller current. Otherwise, electric leakage or heating may occur and result in fire.
- ④ The specified cables shall be applied in the wiring. No external force may be applied to the terminal. Otherwise, wire cut and heating may occur and result in fire.

## 2. INSTALLATION ACCESSORY

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Select the installation location

Don't install at the place where cover with heavy oil, vapor or sulfured gas, otherwise, this product would be deformed that would lead to system malfunction.

Preparation before installation

1. Please confirm that all the following parts you have been supply.

No.	Name	Qty.	Remarks
1	Wire controller	1	_____
2	Installation and owner's manual	1	_____
3	Screws	3	M4X20 (For Mounting on the Wall)
4	Wall plugs	3	For Mounting on the Wall
5	Screws	2	M4X25 (For Mounting on switch box)
6	Plastic screw bars	2	For fixing on switch box
7	The connective wires group	1	Optional

2.Prepare the following assemblies on the site.

No.	Name	Qty.(embedded into wall)	Specification (only for reference)	Remarks
1	Switch box	1	_____	_____
2	Wiring Tube(Insulating Sleeve and Tightening Screw)	1	_____	_____

## 2. INSTALLATION ACCESSORY

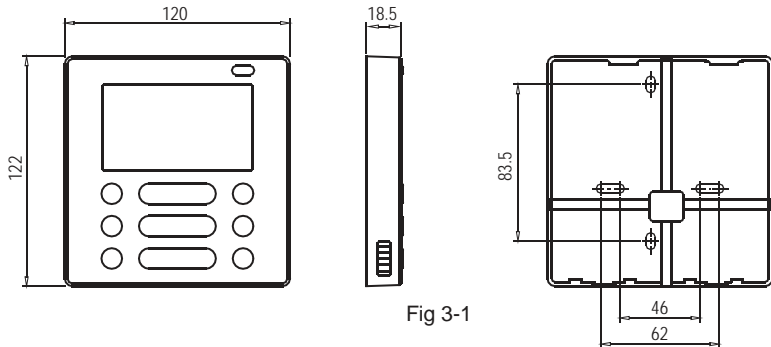
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### Precaution of install the wire controller

1. This manual provides the installation method of wire controller. Please refer to the wiring diagram of this installation manual to wire the wire controller with indoor unit.
2. The wire controller working in low voltage loop circuit. Forbid to directly contact the cable of 220V commercial electricity or of 380V high voltage, and don't wire this kind of wire in the said loop; wiring clearance between configured tubes should at the range of 300~500mm or above.
3. The Shielded wire of the wire controller must be grounded reliable.
4. Upon finish the wire controller connection, do not employed tramegger to detect the insulation.
5. The connective cable of wire controller should not be longer than 20 meters.

### 3. INSTALLATION METHOD

#### 1. Wired remote controller structure size figure



#### 2. Wiring Principle Sketch:

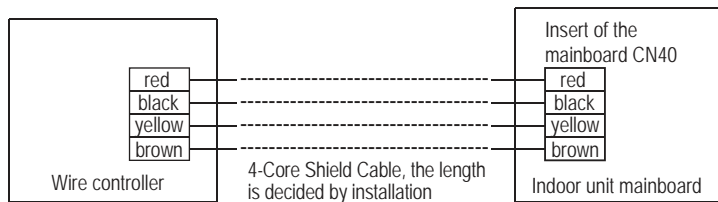
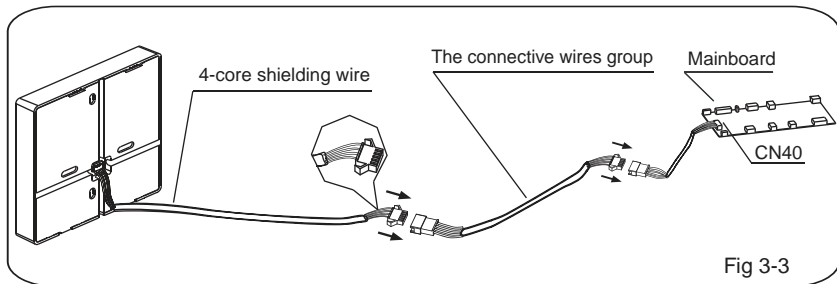


Fig 3-2



## 3. INSTALLATION METHOD

### 3. Wiring figure



- Connect the female joint of wires group from the mainboard with the male joint of connective wires group. (See Fig.3-3)
- Please connect the other side of connective wires group with the male joint of wires group leads from wire controller. (See Fig.3-3)

### 4. Remove the upper part of wire controller

- Insert a slot screwdriver into the slots in the lower part of the wire controller (2 places), and remove the upper part of the wire controller. (Fig.3-4)



#### NOTICE

The PCB is mounted in the upper part of the wire controller. Be careful not to damage the board with the slot screwdriver.

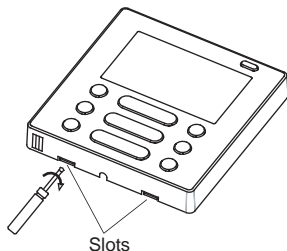


Fig 3-4

### 3. INSTALLATION METHOD

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#### 4. Fasten the back plate of the wire controller

- For exposed mounting, fasten the back plate on the wall with the 3 screws (M4x20) and plugs. (Fig.3-5)

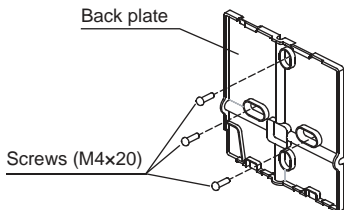


Fig 3-5

- For flush-mounting, fasten the back plate on the switch box with 2 screws (M4x25) and fasten it on the wall with 1 screw (M4x20). (Fig.3-6)

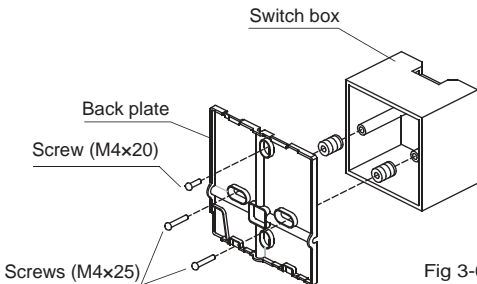


Fig 3-6



#### NOTICE

Put on a flat surface. Be careful not to distort the back plate of the wire controller by overtightening the mounting screws.

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### 3. INSTALLATION METHOD

#### 5. Battery installation

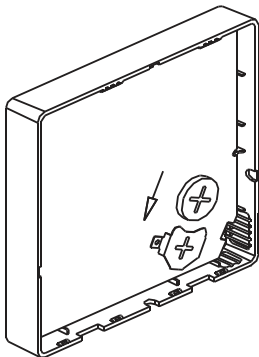
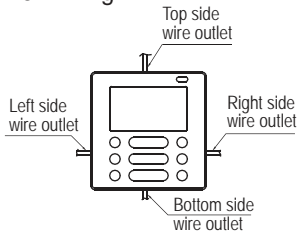


Fig 3-7

- Put the battery into the installation site and make sure the positive side of the battery is in accordance with the positive side of the installation site. (See Fig. 3-7)
- Please set the time corrected on the first time operation. Batteries in the wire controller can timing under power failure which ensure the time keep right. When the power restores, if the time displayed is not correct, it means the battery is dead and replace the battery.

### 3. INSTALLATION METHOD

#### 6. Wiring



A. For exposed mounting, four outletting positions. There are three need cutting.

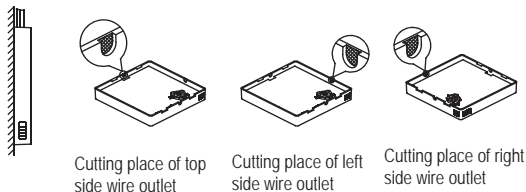
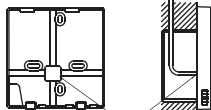


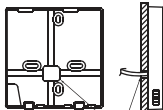
Fig 3-8

#### B. Shielded wiring

Embedded switch box wiring



Wiring through the wall



Diameter of wall hole:  $\Phi 20\text{mm}$

Fig 3-9

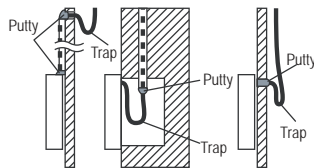


Fig 3-10



### CAUTION

Avoid the water enter into the wired remote controller, use trap and putty to seal the connectors of wires during wiring installation. (Fig.3-10)  
When under installation, reserve certain length of the connecting wire for convenient to take down the wired remote controller while during maintenance.

### 3. INSTALLATION METHOD

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#### 7.Reattach the upper part of the wire controller

- After adjusting the upper case and then buckle the upper case; avoid clamping the wiring during installation. (Fig 3-11)

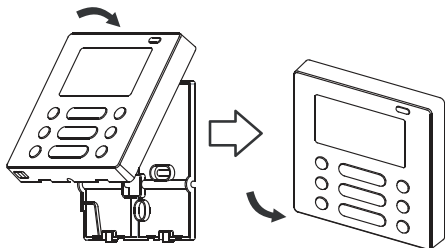


Fig 3-11

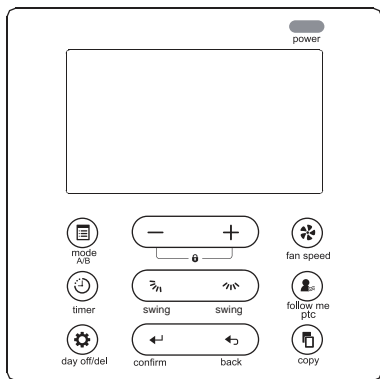
All the pictures in this manual are for explanation purpose only.  
Your wire controller may be slightly different .The actual shape shall prevail.

## 4. SPECIFICATION

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Input voltage	DC 5V/DC 12V
Ambient temperature	-5~43°C (23~110°F)
Ambient humidity	RH40%~RH90%

## 5. FEATURE AND FUNCTION OF THE WIRED CONTROLLER



Dimension:  
H×W×D(mm) 122×120×18.5

Feature:

LCD display.

Malfunction code display: it can display the error code, helpful for service.

4-way wire layout design, no raised part at backside, more convenient to place the wires and install the device.

Room temperature display.

Weekly Timer.

Function:

Mode: choose Auto-Cool-Dry- Heat -Fan

Fan speed: Auto/Low/Med/High speed

Vertical swing & Horizontal swing (on some models)

Timer ON/OFF

Temp. setting

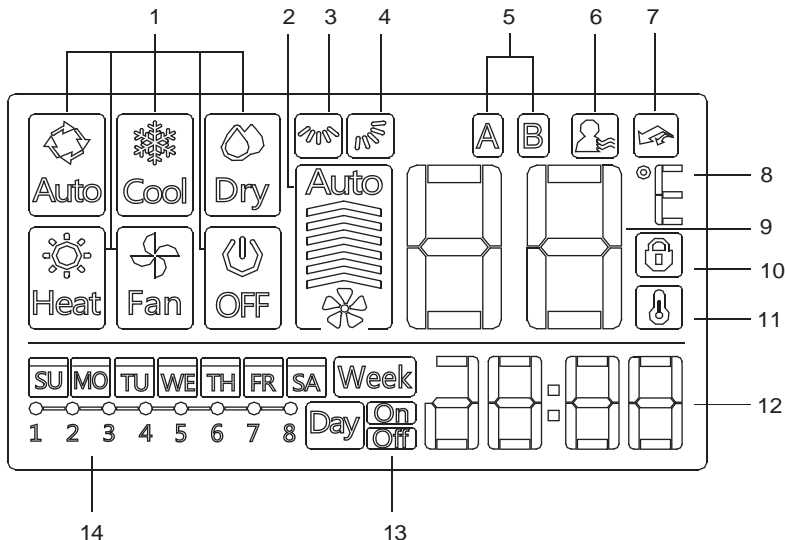
Weekly timer

Follow Me (I Feel function)

Child Lock

PTC heater (Electrical heater)

## 6. NAME ON THE LCD OF THE WIRE CONTROLLER



1 Operation mode indication

2 Fan speed indication

3 Left-right swing indication

4 Up-down swing indication

5 Master indoor and slave  
indoor indication

6 Follow me (I feel function) indication

7 PTC (Electrical heater)indication

8 C° / F° indication

9 Temperature display

10 Lock indication

11 Room temperature indication

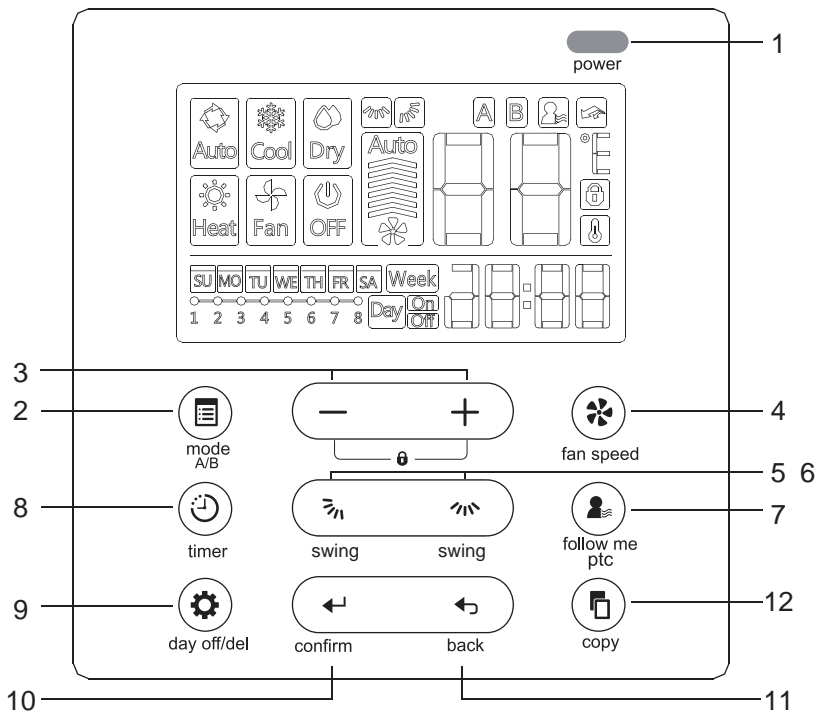
12 Clock display

13 On/Off timer

14 Timer display



## 7. NAME OF THE BUTTON ON THE WIRE CONTROLLER




## 7. NAME OF THE BUTTON ON THE WIRE CONTROLLER



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- 1 Power Button (ON/OFF Button)
- 2 Mode / (A/B) Button
- 3 Adjust Button
- 4 Fan speed Button
- 5 Up-down Airflow Direction and Swing Button
- 6 Left-right Airflow Swing Button
- 7 Follow me / PTC Button ( I feel function / Electrical heater)
- 8 Timer Button
- 9 Day off / Del Button
- 10 Confirm Button
- 11 Back Button
- 12 Copy Button


## 8. PREPARATORY OPERATION

### Set the current day and time

- 1  Press the Timer button for 3 seconds or more.  
The timer display will flash.


- 2  Press the button “+” or “-” to set the date. The selected date will flash.
- 

- 3  The date setting is finished and the time setting is prepared after pressing Timer button or there is no pressing button in 10 seconds.

- 4  Press the button “+” or “-” to set the current time.  
Press repeatedly to adjust the current time in 1-minute increments.  
Press and hold to adjust the current time continuous.



ex.Monday AM 11:20

- 5  The setting is done after pressing Timer button or there is no pressing button in 10 seconds.

## 9. OPERATION

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### To start/stop operation



Press the Power button (On/OFF button).

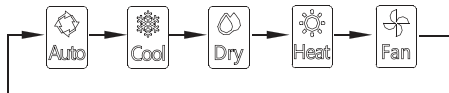
Operation lamp  
Air conditioner ON :Lit brightly  
Air conditioner OFF:Not lit

### To set the operation mode

Operation mode setting



Press the Mode button to set the operation mode.  
(Heat function is invalid for cool only type unit)



Room temperature setting



Press the button “+” or “-” to set the room temperature.  
Indoor Setting Temperature Range : 17~30°C (62~86°F)

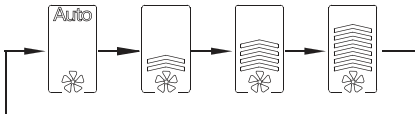
## 9. OPERATION

### Fan speed setting



fan speed

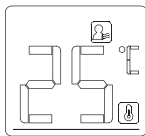
Press the Fan speed button to set the fan speed.  
(This button is unavailable when in the mode of Auto or Dry)



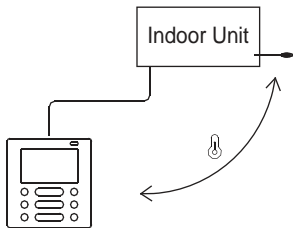
### Room temperature sensor selection



follow me  
ptc



Press the Follow me/PTC button to select whether the room temperature is detected at the indoor unit or the wire controller (I feel function).



When the I feel function indication  appears, the room temperature is detected at the wire controller.

## 9. OPERATION


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### PTC function (Electrical Heater)

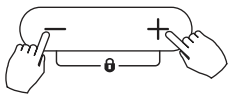


Press the Follow me/PTC button for 2 seconds or more to activate the PTC function, when the unit is under the Heat mode.

Press the buttons again for 2 seconds or more to deactivate the PTC function.


When the PTC function is activated, the  mark appears. (Not applicable to all the models)

### Child lock function





Press and hold “+” and “-” buttons together for 3 seconds or more to activate the child lock function and lock all buttons on the wire controller.

Press the buttons again for 3 seconds or more to deactivate the child lock function.

When the child lock function is activated, the  mark appears.

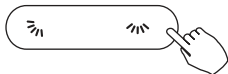
### °C & °F scale selection (on some models)





Press and hold  and  buttons together for 3 seconds will alternate the temperature display between the °C & °F scale.

## 9. OPERATION

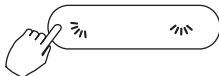
### Left-right airflow swing (on some models)





Press the  button to activate the auto Left-right swing feature of the louver. And then the louver would swing automatically. Press it again to stop.

When the auto Left-right swing feature of the louver is activated, the  mark appears. (Not applicable to all the models)

### Up-Down airflow direction and swing (on some models)



- Use  button to adjust the Up-down airflow direction.
  1. When press the button once and quickly, the Up-down airflow direction setting feature of the louver is activated. The moving angle of the louver is 6° for each press. Keep pressing the button to move the louver to the desired position.
  2. If press the button long, the auto Up-down swing feature of the louver is activated. The louver would swing automatically. Press it again to stop.

When the auto Up-down swing feature of the louver is activated, the  mark appears. (Not applicable to all the models)

## 10. TIMER FUNCTIONS

---

Week

WEEKLY timer

Use this timer function to set operating times for each day of the week.

Day On

On timer

Use this timer function to start air conditioner operation. The timer operates and air conditioner operation starts after the time has passed.

Day Off

Off timer

Use this timer function to stop air conditioner operation. The timer operates and air conditioner operation stops after the time has passed.

Day On Off

On and Off timer

Use this timer function to start and stop air conditioner operation. The timer operates and air conditioner operation starts and stops after the time has passed.



## 10. TIMER FUNCTIONS

To set the On or Off TIMER

1



timer

Press the Timer button to select the Day<sup>On</sup> or Day<sup>Off</sup>.



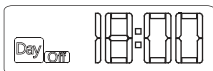
2



confirm

Press the Confirm button and the Clock display is flashing.

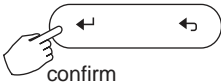
3



ex. Off timer set at PM 6:00

Press the button “+” or “-” to set the time. After the time is set, the timer will start or stop automatically.

4





confirm


Press the Confirm button again to finish the settings.


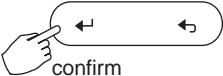
## 10. TIMER FUNCTIONS


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### To set the On and Off TIMER

- 1**  timer Press the Timer button to select the  .
- 

- 2**  confirm Press the Confirm button and the Clock display is flashing.
- 

- 3**   confirm
- Press the button “+” or “-” to set the time of On timer, and then press the Confirm button to confirm the setting.
- 

- 4**  Press the button “+” or “-” to set the time of Off timer.
- 

- 5**  confirm Press the Confirm button to finish the settings.

## 11. WEEKLY TIMER

### 1 Weekly timer setting



Press the Timer button to select the **Week** ,and then press the Confirm button to confirm.

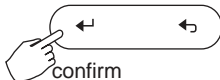
### 2 Day of the week setting



Press the button “+” and “-” to select the day of the week.and then press the CONFIRM button to confirm the setting.



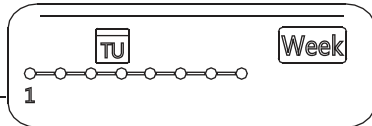
### 3 Time scale setting



Press the button “+” and “-” to select the setting time.The setting time,mode, temperature and fan speed will be shown on the LCD,Press the Confirm button to enter the setting-time process.

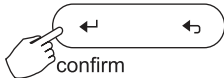
## 11. WEEKLY TIMER

Up to 8 time scales can be set in one day. Mode, temperature and fan speed in different time scale can be set.



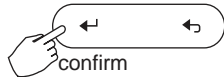
ex. Tuesday time scale 1

### 4 Time setting

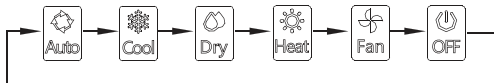


Press the button “+” and “-” to set the time. and then press the Confirm button to confirm the setting.

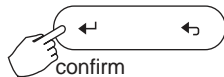
### 5 Operation mode setting



Press the button “+” and “-” to set the operation mode. and then press the Confirm button to confirm the setting.



### 6 Room temperature setting



## 11. WEEKLY TIMER

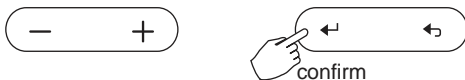
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Press the button “+” and “-” to set the room temperature .and then press the Confirm button to confirm the setting.

NOTE:This setting is unavailable when in the mode of Fan or Off.

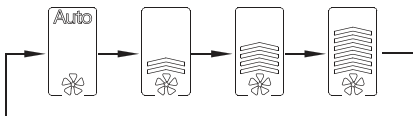
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### 7 Fan speed setting



Press the button “+” and “-” to set the fan speed .and then press the Confirm button to confirm the setting.

NOTE: This setting is unavailable when in the mode of Auto, Dry or Off



8 Different time scales can be setted by repeating step 3 to 7.

9 Other days in one week can be setted by repeating step 3 to 8.

NOTE: The weekly timer setting can be returned to the previous step by pressing Back button.

The current setting will be restored and withdrawn the weekly timer setting automatically when there is no operation for 30 seconds.

# 11. WEEKLY TIMER

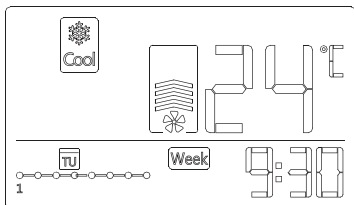
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## WEEKLY timer operation

To start



Press the Timer button to select the **Week**, and the the timer starts automatically.



ex.

To cancel



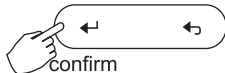
Press the Power button to cancel the timer mode.



The timer mode can also be canceled by changing the timer mode using the Timer button.

To set the DAY OFF (for a holiday)

1



During the weekly timer, press the Confirm button to set the day.

2



Press the button "+" and "-" to select the day to set the DAY OFF.

## 11. WEEKLY TIMER

3



Press the Day off button to set the DAY OFF.

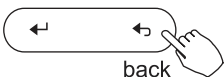


ex. The DAY OFF is set for Wednesday

4

The DAY OFF can be setted for other days by repeating the steps 2 and 3.

5



Press the Back button to back to the weekly timer.

To cancel Follow the same procedures as those for setup

Notes:

The DAY OFF setting is cancelled automatically after the set day has passed.

### Copy out the setting in one day into the other day.

A reservation made once can be copied to another day of the week.

The whole reservation of the selected day of the week will be copied.

The effective use of the copy mode ensures ease of making reservations.

1



During the weekly timer, press the Confirm button.


2




Press the button "+" and "-" to select the day to copy from.

## 11. WEEKLY TIMER

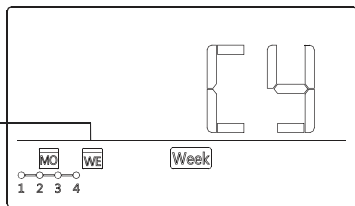
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- 3**  Press the Copy button, the letter “CY” will be shown on the LCD.

- 4**  Press the button “+” and “-” to select the day to copy to.


- 5**  Press the Copy button to confirm .

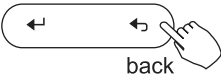
The  mark flashes quickly



ex. Copy the setting of Monday to Wednesday

- 6** Other days can be copied by repeating step 4 and 5.

- 7**  Press the Confirm button to confirm the settings.

- 8**  Press the Back button to back to the weekly timer.



## 11. WEEKLY TIMER

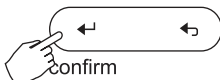
Delete the time scale in one day.

1



During the weekly timer, press the Confirm button.

2

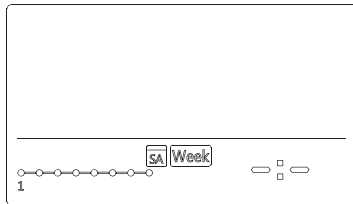
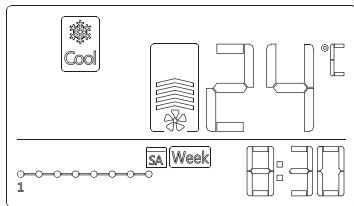


Press the button “+” and “-” to select the day of the week, and then press the Confirm button to confirm the setting.

3



Press the button “+” and “-” to select the setting time you want to be deleted. The setting time, mode, temperature and fan speed will be shown on the LCD. The setting time, mode, temperature and fan speed can be deleted by pressing the Day off (Del) button.



ex. Delete the time scale 1 in Saturday

## 12. FAULT ALARM HANDING

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If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions is evident, investigate the system according to the following procedures.

NO.	MALFUNCTION & PROTECTION DEFINE	DISPLAY DIGITAL TUBE
1	Error of communication between wire controler and indoor unit	F0
2	Refer to IDU display error codes / descriptions	Others



