

## **INSTALLATION& OWNER'S MANUAL**

## WIRE CONTROLLER OF AIR CONDITIONER

MODEL: KJR-120C/TF-E(12V) KJR-120C/TF-G(12V) KJR-120C/TF-I(5V) KJR-120C/TF-H(12V) KJR-120C/TF-J(5V)

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

## 2. INSTALLATION ACCESSORY

## 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

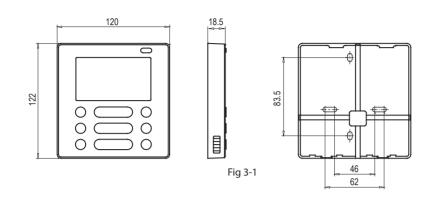
- 3. The Shielded wire of the wire controller must be grounded reliable. 4. Upon finish the wire controller connection, do not employed tramegger to detect the
- 5. The connective cable of wire controller should not be longer than 20 meters.

3. INSTALLATION METHOD

wiring during installation. (Fig 3-11)

7. Reattach the upper part of the wire controller

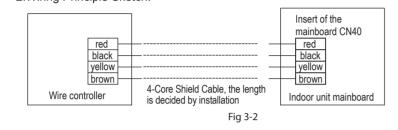
- range of 300~500mm or above.



2. Wiring Principle Sketch:

3. INSTALLATION METHOD

1. Wired remote controller structure size figure



## 4. SPECIFICATION

9. OPERATION

Remote signal receiving function

To start/stop operation

To set the operation mode

Operation mode setting

Room temperature setting

**10. TIMER FUNCTIONS** 

To set the On or Off TIMER

controller when the system have been powered on.

After adjusting the upper case and then buckle the upper case; avoid clamping the

DC 5V/DC 12V ~43°C (23~110°F RH40%~RH90%

The wired remote controller can be a remote signal receiving device, you can use the

Press the Power button.

Press the Mode button to set the operation mode.

(Heat function is invalid for cool only type unit)

Press the button" + "or" - " to set the room temperature.

Press the Timer button to select the Pay on Pay on

Press the button " + " or " - " to set the time. After the time is set,

Press the Day off button to set the DAY OFF.

The with ark is hidden

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

• During the weekly timer, press the Confirm button.

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

To cancel: Follow the same procedures as those for setup.

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

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

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.

Press the Back button to back to the weekly timer.

the timer will start or stop automatically.

Press the Confirm button and the Clock display

ex.Off timer set at PM 6:00

Press the Confirm button again to finish the settings.

ex.The DAY OFF is set for Wednesday

Indoor Setting Temperature Range: 17~30°C (62~86°F)

Air conditioner ON :Lit brightly

Air conditioner OFF:Not lit

Operation lamp

wireless remote controller to control the air-conditioner through the wired remote

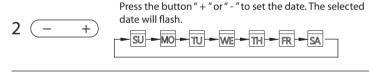
# All the pictures in this manual are for explanation purpose only.

Your wire controller may be slightly different .The actual shape shall prevail.

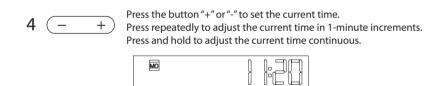
## 8. PREPARATORY OPERATION

## Set the current day and time

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



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



ex.Monday AM 11:20 The setting is done after pressing Timer button or there is no pressing button in 10 seconds.

## **10. TIMER FUNCTIONS**

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

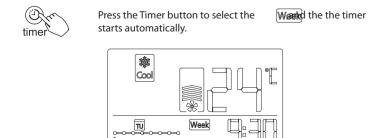
Use this timer function to start air conditioner operation. The timer operates and air conditioner operation starts after the time has passed.

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

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

11. WEEKLY TIMER

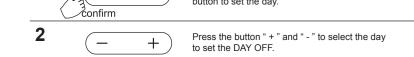
## WEEKLY timer operation To start



To cancel Press the Power button to cancel the timer mode. The timer mode can also be canceled by changing the timer mode

## To set the DAY OFF (for a holiday) During the weekly timer, press the Confirm

11. WEEKLY TIMER



- In order to ensure correct service of the wired controller
- For convenience of future reference, keep this manual after reading it.

## This manual gives detailed description of the precautions that should be brought to your attention during operation.

please read this manual carefully before using the unit.

## 8. PREPARATORY OPERATION.. 9. OPERATION... 10. TIMER FUNCTIONS 11. WEEKLY TIMER. 12. FAULT ALARM HANDING. 13.TECHNICAL INDICATION AND REQUIREMENT

# 4. SPECIFICATION.. 5. FEATURE AND FUNCTION OF THE WIRED CONTROLLER... 6. NAME ON THE LCD OF THE WIRE CONTROLLER. 7. NAME OF BUTTON ON THE WIRE CONTROLLER..

# 3. INSTALLATION METHOD

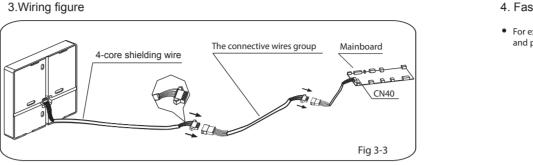
**CONTENTS** 

1. SAFETY PRECAUTIONS

2. INSTALLATION ACCESSORY.

3. INSTALLATION METHOD...

4. Fasten the back plate of the wire controller



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)

• Connect the female joint of wires group from the mainboard with the male joint of

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)

CONTROLLER

3. INSTALLATION METHOD

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

+ ) (\*)

H×W×D(mm) 122×120×18.5

9. OPERATION

Room temperature sensor selection

Press the Follow me/PTC button to select whether

When the Follow me function indication appears, the

room temperature is detected at the wire controller.

1 Press the Timer button to select the timer

Confirm button to confirm the setting.

11. WEEKLY TIMER

The wenark flashes quickly

• Press the Confirm button and the Clock display is flashing.

Press the button " + " or " - " to set the time of Off

Press the Copy button, the letter "CY" will be shown on the LCD.

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

ex. Copy the setting of Monday to Wednesday

Press the Confirm button to confirm the settings

Press the Back button to back to the weekly timer.

Press the Copy button to confirm.

1 2 3 4

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

• Press the Confirm button to finish the settings.

Press the button " + " or " - " to set the time of On timer, and then press the

the room temperature is detected at the indoor

unit or the wire controller.

10. TIMER FUNCTIONS

To set the On and Off TIMER

5. FEATURE AND FUNCTION OF THE WIRED

Feature:

LCD display.

some models

Timer ON/OFF

Weekly timer

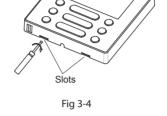
Follow Me

Child Lock

LCD display

Press the Fan speed button to set the fan speed.

(This button is unavailable when in the mode of Auto or Dry)



Malfunction code display: it can display

4-way wire layout design, no raised part

at backside, more convenient to place

Mode: choose Auto-Cool-Dry- Heat -Fan Fan speed: Auto/Low/Med/High speed

Infrared remote receiver (on some models)

Vertical swing & Horizontal swing(on

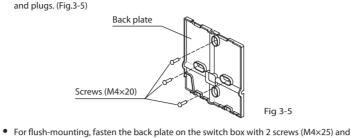
PTC heater (on some models)

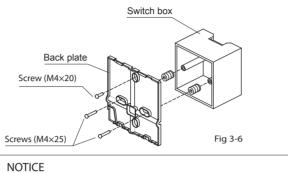
Lifting panel (on some models)

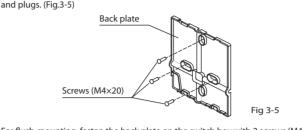
the error code, helpful for service.

the wires and install the device. Room temperature display.

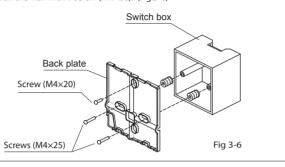
• For exposed mounting, fasten the back plate on the wall with the 3 screws (M4×20)



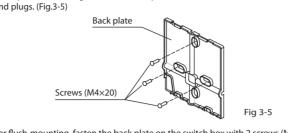




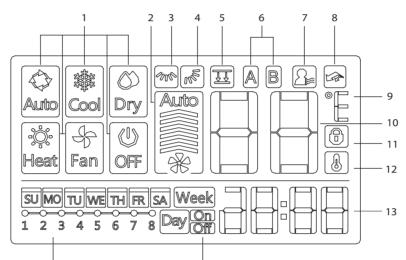
fasten it on the wall with 1 screw (M4×20). (Fig.3-6)



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



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



1 Operation mode indication 2 Fan speed indication

8 PTC function indication 9 C° / F° indication 3 Left-right swing indication 10 Temperature display 11 Lock indication 4 Up-down swing indication 12 Room temperature indication 5 Faceplate function indication 6 Main unit and secondary unit indication 13 Clock display 7 Follow me function indication 14 On/Off timer

## 9. OPERATION

PTC function (on some models) 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

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 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)

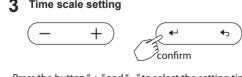
Press and hold and auttons together for 3 seconds will alternate the temperature display between the °C&°F scale.

## 11. WEEKLY TIMER

1 Weekly timer setting Press the Timer button to select the Week'd then press the Confirm button

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. SU MO TU WE TH FR SA



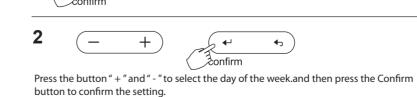
Press the button " + " and " - " to select the setting time. The setting time, mode, temperature and fan speed will be shown on the LCD, Press the Confirm button

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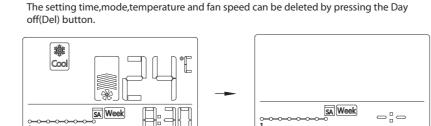
29

## 11. WEEKLY TIMER

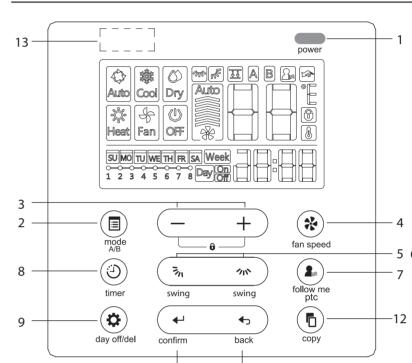
Delete the time scale in one day. During the weekly timer, press the Confirm button.

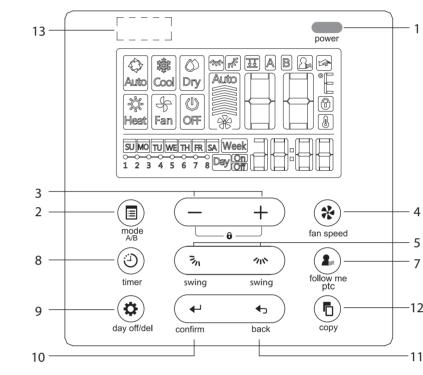


Press the button " + " and " - " to select the setting time want to be deleted. The setting time, mode, temperature and fan speed will be shown on the LCD.



ex. Delet the time scale 1 in saturday





1. SAFETY PRECAUTIONS

Adhere to this installation manual.

Do not uninstall the unit randomly.

electric shock may occur.

5. Battery installation

and replace the battery.

9. OPERATION

Faceplate function (on some models)

The F2 mark appears when

the faceplate is adjusted.

Left-right airflow swing (on some models)

connected with one unit only):

(Not applicable to all the models)

Up to 8 time scales can be setted

fan speed in different time scale can

in one day. Mode, temperature and

11. WEEKLY TIMER

be setted.

4 Time setting

confirm the setting.

5 Operation mode setting

button to confirm the setting.

**6** Room temperature setting

12. FAULT ALARM HANDING

and indoor unit

The faceplate is abnormal

heating may occur and result in fire.

3. INSTALLATION METHOD

■ Read the safety precautions carefully before installing the unit.

Stated below are important safety issues that must be obeyed.

Please entrust the distributor or professionals to install the unit.

NOTE

Imporper installation may lead to electric shock or fire.

improper installation may lead to electric shock or fire.

Reinstallation must be performed by professionals.

Installation by other persons may lead to imperfect installation, lectric shock or fire.

Random uninstalling may lead to abnormal operation, heating or fire of the air condition.

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 occure.

② Do not operate with wet hands or let water enter the wire controller. Otherwise,

to the terminal. Otherwise, wire cut and heating may occur and result in fire.

3 The wiring should adapt to the wire controller current. Otherwise, electric leakage or

The specified cables shall be applied in the wiring. No external force may be applied

• Put the battery into the installationsite and make sure the positive side of the battery

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

is in accordance with the positive side of installationsite. (See Fig. 3-7)

7. NAME OF THE BUTTON ON THE WIRE CONTROLLER

• Please set the time corrected on the first time operation. Batteries in the wire

Means improper handling may lead to personal death or severe injury.

Means improper handling may lead to personal injury or property loss.

WARNING

1. When the unit is off, Press the Mode(A/B) button long to activate the

ex.Tuesday time scale 1

F0

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faceplate function.The ark will flash.

A B —

3. Press the button "+" and "-" to control the lift and drop of the faceplate.

Pressing the "+" button can stop the faceplate, while it is dropping.

Press the vibutton to activate the auto Left-right swing feature of the louver.

When the auto Left-right swing feature of the louver is activated, the appears.

Press the button " + " and " - " to set the time.and then press the Confirm button to

Press the button " + " and " - " to set the operation mode .and then press the Confirm

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

MALFUNCTION & PROTECTION DEFINE

Please check the error display of indoor unit and read << OWNER'S MANUAL>>

13.TECHNICAL INDICATION AND REQUIREMENT

EMC and EMI comply with the CE certification requirements.

And then the louver would swing automatically. Press it again to stop.

Pressing the "-" button can stop the faceplate, while it is lifting.

2. Push the Mode(A/B) button to select Unit A or Unit B, the wire controller select in a

sequence that goes from (this step do not need to perform if the wire controller is

9 Day off(Del) Button 10 Confirm Button 11 Back Button

8 Timer Button

1 Power Button

3 Adjust Button

2 Mode(A/B) Button

4 Fan speed Button

5 Up-down Airflow Direction and Swing Button

6 Left-right Airflow Swing Button

7 Follow me(PTC) Button

12 Copy Button

13 Infrared remote receiver (on some models)

2. INSTALLATION ACCESSORY

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

Remarks

(For Mounting on the Wall)

For Mounting on switch box)

For Mounting on the Wall

For fixing on switch box

Specification

only for reference

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

Cutting place of top Cutting place of left

Fig 3-10

CAUTION

side wire outlet

Avoid the water enter into the wired remote controller, use trap and putty to seal the

When under installation, reserve certain length of the connecting wire for convenient

Fig 3-8

Wiring through the wall

Diameter of wall hole: Φ20mm

to take down the wired remote controller while during maintenance

connectors of wires during wiring installation. (Fig.3-10)

7. NAME OF THE BUTTON ON THE WIRE CONTROLLER

Optional

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

Select the installation location

Preparation before installation

stallation and owner's manual

Wall plugs

Switch box

Plastic screw bars

he connective wires group

iring Tube(Insulating

eeve and Tightening

3. INSTALLATION METHOD

B.Shielded wiring

2. Prepare the following assemblies on the site.

## 9. OPERATION

louvers can be operated individually.

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

• Use  $3_n$ 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) • The operation can refer to the following instructions for the unit with four Up-down

1.Press the Sputton to activate the Up-down adjusting louver function The mark will flash.(Not applicable to all the models) 2. Push the Mode(A/B) button to select Unit A or Unit B, the wire controller select in a

connected with one unit only): A B -3.Pressing the button "+" and "-" can select the movement of four louvers. Each time you push the button, the wire controller select in a sequence that goes from: (the icon -0 means the four louvers move at the same time.)

sequence that goes from(this step do not need to perform if the wire controller is

4. And then use hutton to adjust the Up-down airflow direction of the selected louver.

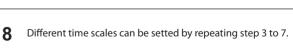
## 11. WEEKLY TIMER

**7** Fan speed setting

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.

Press the button "+" and "-" to set the fan speed .and then press the Confirm button

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



**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 se automatically when there is no operation for 30 seconds.

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# improvement. Consult with the sales agency or manufacturer for details

The design and specifications are subject to change without prior notice for product

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