SINCLAIR

WIRE CONTROLLER OF AIR CONDITIONER

OWNER'S MANUAL

MODEL: KJR-10B

Please read this manual carefully before operation and keep it for future reference.

CONTENTS

SAFETY PRECAUTION

- The followings are showed on products and the manual:the operation, how to avoid injuring to personal, wealth loss and how to operate correctly and safely
- Read the text carefully after read the followings include markers and icons, then abide to the following cautions

■ Markers

Markers	Indication
⚠ WARNING	The sign shows the risk of death or serious injury will be caused due to the wrongoperation .
⚠ CAUTION	The sign shows the risk of injury or the damage to the property will be caused due to the wrong operation.

■ Icons

Icons	Indication
⊘	FORBID Followed by the detailed illustration
❶	ENFORCE Followed by the detailed illustration

NOTE :

1. Injury means causing from the harm, burn and electrical shock , but not serious for the hospitalization.
2. The damage of material means the disrepair of property and material.

⚠ **WARNING**

INSTALLATION WARNING	❶ Installation commitment	**Please entrust the dealer or the professional person to do the installation.** Users can't install the units by themselves, or the electrical shock or fire may be caused.

OPERATION CAUTION	⊘ FORBID	Do not spray inflammable liquid on the Wire Controller, or fire may be caused.
		Do not operate with wet hands. Do not let water go into the Wire Controller, or electric shock hazard may have.

MOVE AND REPAIR CAUTION	⚠ FORBID	If you want to move or re-install your Wire Controller, please contact with local dealer.
		Do not disassemble your Central Controller at will. If it is needed, please contact the local dealer. A random disassembly may cause abnormal operation or heating, which may result in fire.

WIRE CONTROLER SUMMARIZE

The basic operation conditions of wire controller are as follows:
1. The range of power supply voltage: the voltage input is 5VDC.
2. Ambient temperature range:- 15℃~+43℃.
3. Ambient humidity range:RH40%~RH90%.
4. The safety certification of electric control should conform to GB4706.32-2004、GB/T7725-2004.

FUNCTION SUMMARIZE

The wire controller has functions as follows:
1. Connect with indoor units with five terminals of A,B,C,D,E.
2. Set the mode through buttons.
3. LCD display.
4. Display the timer function of remain time

NAME AND FUNCTION OF LCD ON THE WIRE CONTROLLER
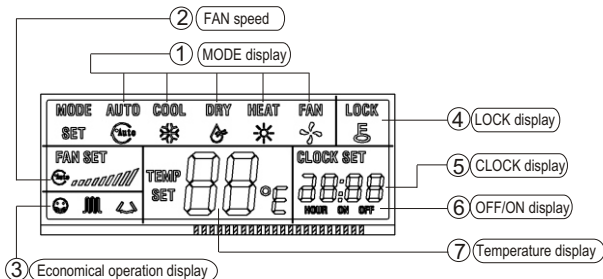
1 Mode select button (MODE):
Press MODE button to select "COOL" , "DRY" , "HEAT", or "FAN ONLY" mode.
(HEAT is invalid for COOL ONLY wire controller.)

2 Fan speed button (FAN SPEED)
Press FAN SPEED to select fan speed from "AUTO", "LOW","MED" , and "HIGH□.
NOTE: some air conditioners have no MED fan speed, then the MED is regarded as HIGH**.**

3 Economical operation display:
Press ECONOMICAL to display economical operation, if press ECONOMICAL again then the display disappears

4 Lock display
Press LOCK to display the icon of LOCK. Press the button again then the icon of LOCK disappears. In the mode of LOCK, all the buttons are invalid except for LOCK button.

5 CLOCK display

Usually display the clock set currently. Press the button CLOCK for 4 seconds, the HOUR part will flash, press button ▲ and ▼ to adjust HOUR. Press the button CLOCK again, the minute part flash, press button ▲ or ▼ to adjust MINUTE. After clock set or clock operation, it must press CONFIRM to complete the set.

6. TIMER ON/OFF display:

Display ON at the state of TIMER ON adjustment or after only set the TIMER ON; Display OFF at the state of TIMER OFF adjustment or after only set the TIMER OFF; Display ON/OFF if simultaneously set the mode of TIMER ON and TIMER OFF.

7. Temperature display area:

Usually display the set temperature. Press the buttons of and to set temperature, at the mode of FAN, there is no figure display in the area.

INSTALLATION METHOD
CONNECTION MOTHOD AND THE PRINCIPLE DIAGRAM SHOW AS FOLLOW

Wire Joint, 5p

Infraed Pipe

Wire Controller

| A | A |
| B | B | +5
C	C
D	D
E	E

5-Core Shield Cable, the length is decided by installation

RUN

Indoor Unit Switch Board
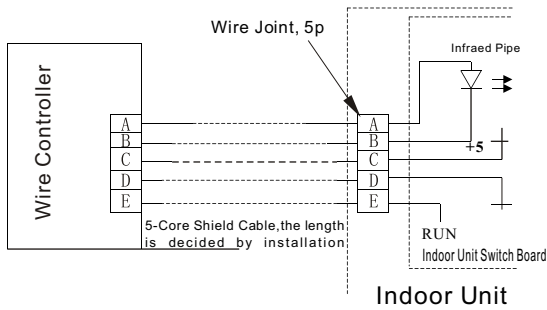
Indoor Unit

Installation interpretation:

When the air conditioner needs installing the wire controller, an additional 5-terminal is needed to install in indoor unit, fasten a infrared emission (fasten with glue), connect the anode and the cathode respectively to A and B on the end, then connect the +5V GND and RUN respectively to CD and E on the end

NAME AND FUNCTIONS OF BUTTONS ON WIRE CONTROLLER

- 7 ON/OF BUTTON
- 8 FAN SPEED SELECTION
- 9 AJUDSTMENT BUTTON▲
- 10 AJUDSTMENT BUTTON▼
- 11 SWING BUTTON
- 12 ECONOMICAL button
- 13 COOL ONLY/COOL AND HEATING SELECTION BUTTON
- 14 LOCK BUTTON

- 1 mode selection button
- 2 timer on button
- 3 timer off button
- 4 clock button
- 5 confirm button
- 6 replace nutton
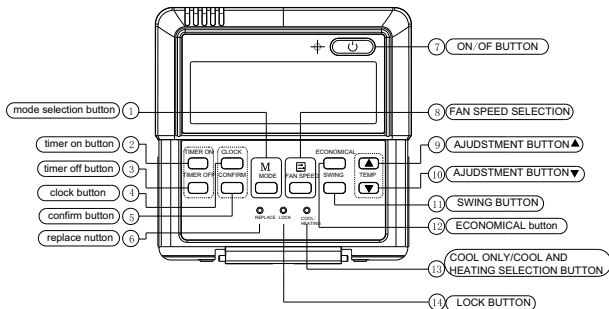
1 mode selection button:

It is used to select mode, push the button one time, then the operation modes will change in turn as follows:

AUTO→COOLING→DEHUMIDIFY→HEATING→FAN

Remarks: no heating mode if wire controller is set as the coolonly.

2 timer on button:

Push the button to set TIMER ON, each time you push the button the time moves forward by o.5 hours. When the set time is over 10 hours, each time you push the button the time moves forward by 1 hour. If want to cancel the TIMER ON, then adjust the time of TIMER ON as 0.0

3 timer off button:

Push the button to set TIMER OFF, each time you push the button the time moves forward by o.5 hours. When the set time is over 10 hours, each time you push the button the time moves forward by 1 hour. If want to cancel the TIMER OFF, then adjust the time of TIMER OFF as 0.0

4 CLOCK button:

Normally display the clock set currently (display 12:00 for the first electrifying or resetting). When push the button for 4 seconds, the hour part on the clock display flashes every 0.5 seconds, then push button   and   to adjust hour; push the button CLOCK again, the minute part flashes every 0.5 seconds, then push   and   button to adjust minute. When set clock or alter clock setting, must push the confirm button to complete the setting.

5 Confirm button:

The button is used at the state of CLOCK adjustment. After select the time, push the button to confirm then exit, the current clock will display

6 RESET button (hidden):

Use a small stick with a diameter of 1mm to push the RESET button to cancel the current settings and get into the condition of resetting

7 ON/OFF button:

Push the button at the condition of OFF, the OPERATION lamp lights, ans the wire controller enters into ON operation, simultaneously sends the information of operation mode set currently, temperature, fan speed, timer etc. Push the button at the condition of ON, the OPERATION lamp extinguishes, simultaneously sends the OFF. If having set TIMER ON or TIMER OFF, the wire controller will cancel these settings before entering into OFF, close the concern indicator, and then send the OFF information.

8 Fan speed selection button (FAN SPEED)

Select any one fan speed from "AUTO", "LOW"," MED", and "HIGH". Each time push the button, the fan speed will change in turn as fellow.
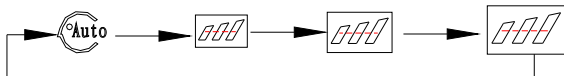
9 adjustment button:

Push the button, indoor temperature increases. Push the button continuously then the temperature increases by 1℃ per 0.5 seconds.

10 adjustment button:

Push the button, indoor temperature decreases. Push the button continuously then the temperature decreases by 1℃ per 0.5 seconds

11 swing button:

Push this button for the first time when operation, it will start the swing function. Push the button for the second time, cancel the swing function. (The function is available matched with the concerned unit)

12 Economical button:

Push the button to set the economical operation mode for air conditioner, push again then cancel the mode. The operation mode is suitable for sleeping time..

13 Cool only/cooling and heating selection button (hidden):

Use a small stick with a diameter of 1mm to push the button to switch modes. For COOLING ONLY type, it will be no heating mode when pressing MODE. The uniform mode is COOLING and HEATING at the factory.

14 LOCK button (hidden):

Use a small stick with the diameter of 1mm to push the LOCK button to lock the current setting, push the button again then cancel the setting.

THE USING OF WIRE CONTROLLER

AUTOMATIC OPERATION

Insert the power supply, operation lamp of indoor unit flashes.

1 Push MODE to select AUTO

2 Set the desired temperature by pushing the button and , usually the temperature range is set from 17℃ to 30℃

3 push ON/OFF, the operation lamp of indoor unit lights, the air conditioner start operating at the AUTO mode, the fan speed is controlled automatically, wire controller display screen display "AUTO" the fan speed is un-adjustable. Push the button ON/OFF again, then the air conditioner stops operating.

4 The ECONOMICAL button is available at the AUTO operation mode

5 THE OPERATION OF COOL/HEAT (COOL ONLY unit hasn't the function)/FAN

1) Push the button MODE to select any one of "COOL", "DRY" , , "HEAT", or "FAN ONLY" mode

2) Select the desired temperature by pushing the button and , usually the temperature range is set from 17℃ to 30℃

3) Push the button FAN SPEED to select any one of "AUTO", "LOW" , "MIDDLE", or "HIGH" fan speed modes.

4) Push the button ON/OFF, the operation lamp on indoor unit lights, the air conditioner operates according to the mode selected. Push the button ON/OFF again, stop the air conditioner.

Remark: It can not set temperature at FAN mode, and only operate the step 1,3 and 4. The economical button is invalid at FAN mode.。

DEHUMIDIFY OPERATION

1）Press MODE to select DEHUMIDIFY mode.

2）Select the desired temperature by pressing the button and , usually the temperature range is set from 17℃ to 30℃

3）Push the button ON/OFF, the operation lamp of indoor unit lights, and the air conditioner will start to dehumidifying. Press the button ON/OFF again, stop the air conditioner.

4）The button FANSPEED and ECONOMICAL are invalid in the mode DEHUMIDIFY

TIMER setting

Button TIMER ON can set the starting time.

Button TIMER OFF can set the stopping time.

Only set the time of TIMER ON

1) Push button TIMER ON, the wire controller display SETTING, the icons of HOUR and ON display on the timer setting area. The wire controller enter into the setting of timer on

2) Push button TIMER ON again, and then adjust the time of timer on as your desired.

3) Continuously push the button, the time of timer will increase 0.5hours per time. After the time of timer reaches to 10 hours, the time will increase 1hour each time.

4) 0.5 seconds later, after finishing the adjustment, the wire conditioner sends the information of time on, the timer on setting is completed.

Only set the time of timer off

1) Push button TIMER OFF, the wire controller display SETTING, the icons of HOUR and OFF display on the timer setting area. The wire controller enters into the setting of timer off.

2) Push button TIMER OFF again, and then adjust the time of timer off as your desired.

3) Continuously push the button, the time of timer will increase 0.5hours per time. After the time of timer reaches to 10 hours, the time will increase 1hour each time.

4) 0.5 seconds later, after finishing the adjustment, the wire conditioner sends the information of timer off, the timer off setting is completed.

set the time of TIMER ON and TIMER OFF simultaneously

   1) Refer to step 1 and step 2 of TIMER ON to set the TIMER ON
   2) Refer to step 1 and step 2 of TIMER OFF to set the TIMER OFF
   3) When set the TIMER ON and TIMER OFF simultaneously, if the set times of TIMER ON and TIMER OFF are all over 10 hours, then TIMER OFF is always later 1 hour than TIMER ON.
   4) 0.5 seconds later, after finishing the adjustment, the wire conditioner sends the information of timer onf, the timer off and timer on setting are completed.
Alter the timer
   To alter the time of TIMER ON of TIMER OFF, push the timer button to confirm once more. Adjust the time of TIMER ON and TIMER OFF as 0.0 to cancel the TIMER ON of TIMER OFF
Remark: the time of TIMER ON is the relative time; it is relative to the standard time of operating wire controller. If having setting the TIMER ON or TIMER OFF, then the clock can not be adjusted.

TECHNIQUE CERTIFICATION AND REQUIREMENT

   1) EMC and EMR should conform to the CE certification
   2) Electrical facility safety should conform to the requirements of GB4706.32-2004 and GB/T7725-2004