



1st Gen. Controllers VRF Midea

**WIRED REMOTE CONTROLLER
INSTALLATION & OWNER'S MANUAL
KJR-29BBK-E**

WIRED REMOTE CONTROLLER OPERATION & INSTALLATION MANUAL

Version: MD12I-034DW

202055100900

Thank you very much for purchasing our product.

Before using your unit, please read this manual carefully and keep it for
future reference.

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1. INSTALLATION

1.1 SAFETY PRECAUTION

- Read the safety precautions carefully before installing the unit.
- Stated below are important safety issues that must be obeyed.
- Conform there is no abnormal phenomena during test operation after complete, then hand the manual to the user.
- Meaning of marks:

WARNING

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

CAUTION

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.

Strictly follow this 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 disassemble your air conditioner at will.

A random disassembly may cause abnormal operation or heating, which may result in fire.



CAUTION

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.

The wiring should adapt to the wire controller current.

Otherwise, electric leakage or heating may occur and result in fire.

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.

Do not place the wired remote controller near the lamps, to avoid the remote signal of the controller to be disturbed. (refer to the right figure)

1.2. OTHER PRECAUTIONS

Installation Location

Do not install the unit in a place with much oil, steam, sulfide gas. Otherwise, the product may deform and fail.

Preparation before installation

1. Check whether the following assemblies are complete.

| No. | Name | Qty. | Remarks |
|-----|--|------|---|
| 1 | Wire controller | 1 | _____ |
| 2 | Cross round head wood mounting screw | 3 | GB950-86 M4X20 (For Mounting on the Wall) |
| 3 | Cross round head mounting screw | 2 | M4X25 GB823-88 (For Mounting on the Electrical Switch Box) |
| 4 | Installation Manual | 1 | _____ |
| 5 | Owner's Manual | 1 | _____ |
| 6 | Plastic expansion pipe | 3 | For Mounting on the Wall |
| 7 | Plastic screw bar | 2 | For fixing on the 86 electrician box |
| 8 | Switching wires for signal receiving board | 1 | For connecting the signal receiving board and 4-core shielding wire |
| 9 | Switching wires for wire controller signal | 1 | (If needed) For connecting the main control panel and 4-core shielding wire |

2. Prepare the following assemblies on the site.

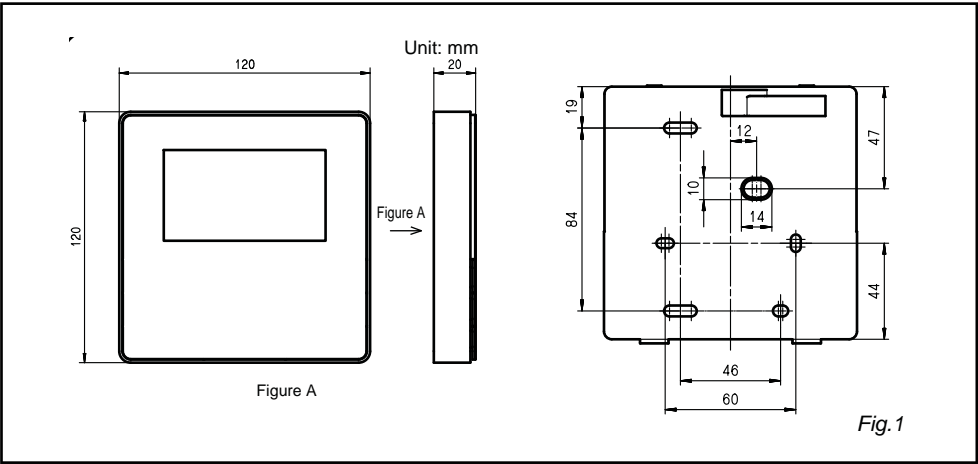
| No. | Name | Qty.(embedded into wall) | Specification (only for reference) | Remarks |
|-----|---|--------------------------|------------------------------------|--------------------|
| 1 | 4-core shielded cable | 1 | RVVP-0.5mm ² x4 | The longest is 15m |
| 2 | 86 Electrician box | 1 | _____ | _____ |
| 3 | Wiring Tube(Insulating Sleeve and Tightening Screw) | 1 | _____ | _____ |

Note to installation of wire controller:

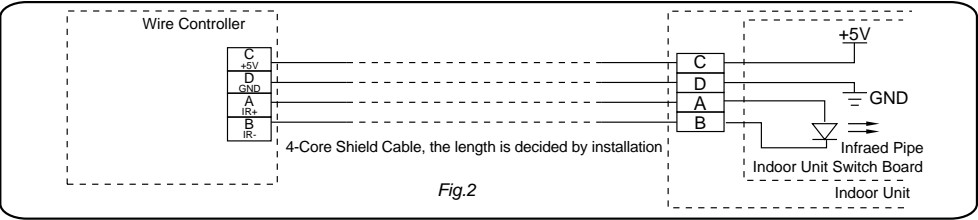
- 1. This installation manual contains information about the procedure of installing Wired Remote Controller. Please refer to Indoor Unit Installation Manual for connecting between Wired Remote Controller and Indoor Unit.
- 2. Circuit of Wired Remote Controller is low voltage circuit. Never connect it with a standard 220V/380V circuit or put it into a same Wiring Tube with the circuit.
- 3. The shield cable must be connected stable to the ground, or transmission may fail.
- 4. Do not attempt to extend the shield cable by cutting, if it is necessary, use Terminal Connection Block to connect.
- 5. After finishing connection, do not use Megger to have the insulation check to the signal wire.

1.3. INSTALLATION PROCEDURE

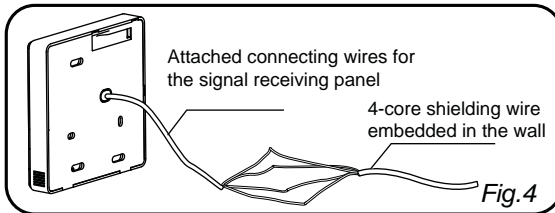
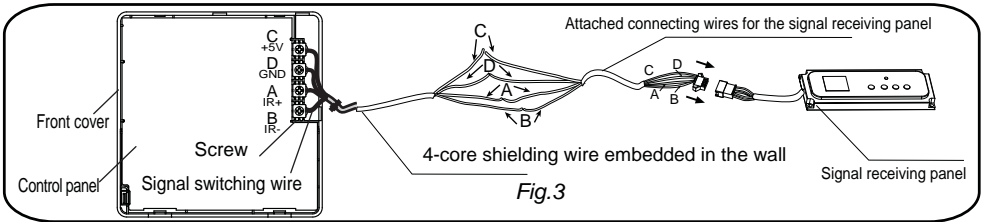
- 1. Wired remote controller structure size figure:



- 2. Wiring Principle Sketch:



3. Wiring figure



CAUTION

1. Connect two terminas of embedded 4-core shielding wirewith the switching wires of wired remote cotnroller and signal receiving board. Make sure the sequenc of 4 terminals (A/B/C/D) should correspond to the wire sequence of signal switching wires (A/B/C/D). (Refer to Fig. 3)
2. If the embedded 4-core shielding wire can not go through the wired remote controller, it can use signal switching for connection (Refer to Fig. 4), make sure the wires are reliable and firm.
3. The tightening torque range of screw is :0.8~1.2N • m (8~12 kgf • cm).

4. Back cover installation

1. Use straight head screwdriver to insert into the buckling position in the bottom of wire controller, and spin the screwdriver to take down the back cover. (Pay attention to spinning direction, otherwise will damage the back cover!) (Fig.5)

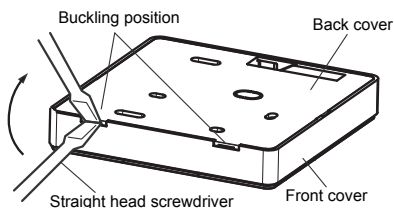


Fig.5

2. Use three GB950-86 M4X20 screws to directly install the back cover on the wall. (Fig.6)

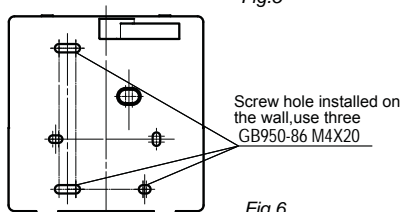


Fig.6

3. Use two M4X25 GB823-88 screws to install the back cover on the 86 electrician box, and use one GB950-86 M4X20 screws for fixing on the wall. (Fig.7.1)

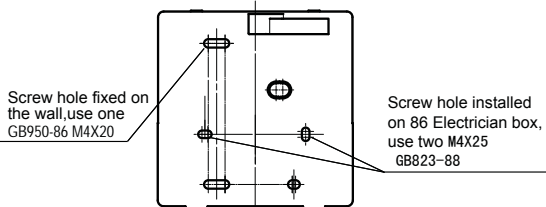


Fig.7.1

4. Adjust the length of two plastic screw bars in the accessory to be standard length from the electrical box screw bar to the wall. Make sure when install the screw bar to the electrical box screw bar, make it as flat as the wall. (Fig.7.2)

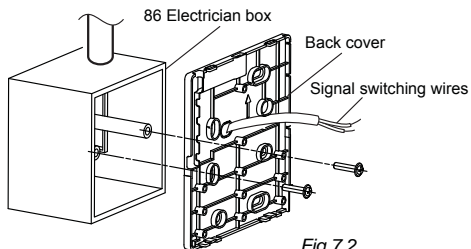
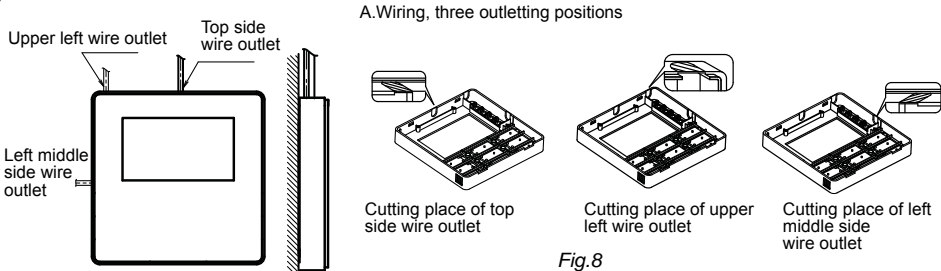


Fig.7.2

5. Use cross head screws to fix the wire controller bottom cover in the electric control box through the screw bar. Make sure the wire controller bottom cover is on the same level after installation, and then install the wire controller back to the bottom cover.
6. Over fasten the screw will lead to deformation of back cover.

5. Wiring

A.Wiring, three outletting positions

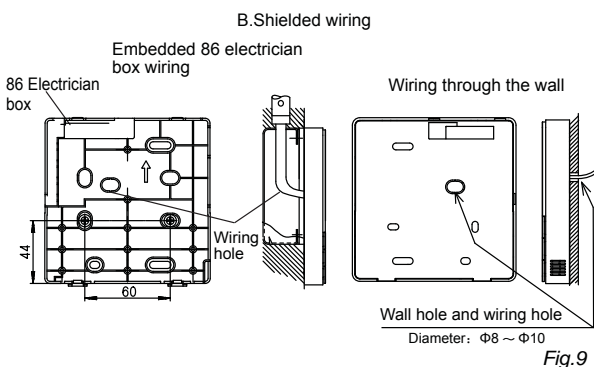


Upper left wire outlet
Top side wire outlet
Left middle side wire outlet

Cutting place of top side wire outlet
Cutting place of upper left wire outlet
Cutting place of left middle side wire outlet

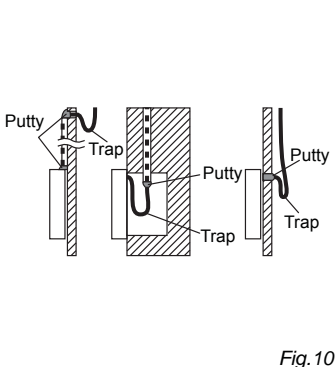
Fig.8

B.Shielded wiring



Embedded 86 electrician box wiring
86 Electrician box
44
60
Wiring hole
Wiring through the wall
Wall hole and wiring hole
Diameter: Φ8 ~ Φ10

Fig.9



Putty
Trap
Putty
Trap
Putty
Trap

Fig.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. 10)

When under installation, reserve certain length of the connecting wire for convenient to take down the wired remote controller while during maintenance.

6. Front cover installation

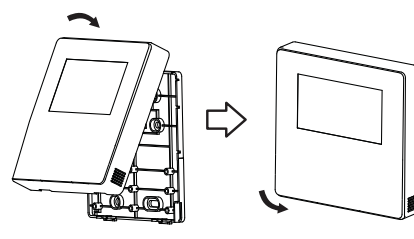
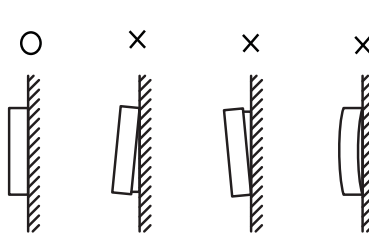


Fig.11



O
X
X
X

Fig.12







CAUTION

- 1. After adjusting the front cover and then buckle the front cover; avoid clamping the communication switching wire during installation. (Fig.11)
- 2. Correct install the back cover and firmly buckle the front cover and back cover, otherwise will make the front cover drop off. (Fig. 12)

1.4. WIRED REMOTE CONTROLLER INITIAL PARAMETER SETTING

Wired remote controller initial parameters setting:

- 1. Change the related functions of the controller through adjusting the initial parameters, details refer to table 1.
- 2. The wired remote controller initial parameter include two codes “XY”, the first code “X” means function class, the second code “Y” means detailed configuration of this function.
- 3. Setting method:
 - Simultaneously long press “Mode” and “Fan” button of the wired remote controller for 5 seconds to enter the parameter setting state;
 - The value of this first code “X” is “0”, press the temperature setting button  and  to adjust the second code value;
 - After setting the second code value, press  button to switch the first code to the next value;
 - When the first code value is “6”, press  button again to exit the parameters setting.
- 4. The parameters setting function only under the situation which need to adjust the default functions setting states; otherwise there is no need to do the setting.

| First code | Function | Second code | | | | |
|------------|---|-------------------------------|------------|----------------------|------------|-------------|
| | | 0 | 1 | 2 | 3 | 4 |
| 0 | Cool-only/ Cool-Heat selection | Cool-Heat (Default) | Cool-only | / | / | / |
| 1 | Indoor unit communication address setting | Yes (Default) | None | / | / | / |
| 2 | Power-off memory | Yes (Default) | None | / | / | / |
| 3 | Filter cleaning reminding | Cancel the reminding function | 1250 hours | 2500 hours (Default) | 5000 hours | 10000 hours |
| 5 | Remote receiving function | Yes (Default) | None | / | / | / |
| 6 | Centigrade/ Fahrenheit display | Centigrade (Default) | Fahrenheit | / | / | / |

2. OPERATION

2.1 SAFETY PRECAUTIONS

The following contents are stated on the product and the operation manual, including usage, precautions against personal harm and property loss, and the methods of using the product correctly and safely. After fully understanding the following contents (identifiers and icons), read the text body and observe the following rules.



WARNING

- Please entrust the distributor or professionals to install the unit. The installers must have the relevant know-how. Improper installation performed by the user without permission may cause fire, electric, shock, personal injury or water leakage.
- Do not spray flammable aerosol to the wired remote controller directly. Otherwise, fire may occur.
- Do not operate with wet hands or let water enter the wired remote controller. Otherwise, electric shock may occur.

2.2. MAIN PARAMETERS AND FUNCTIONS

| | |
|---------------------|-------------|
| Input voltage | DC +5V |
| Ambient temperature | -5~43℃ |
| Ambient humidity | RH40%~RH90% |

Table 2-1

• Functions

Main functions of this wired remotecontroller as follows:

1. Connect with indoor unit via the four ports of A, B, C, D.
2. Set operation mode via buttons.
3. Provided with LCD display function.
4. Provided with timing function.

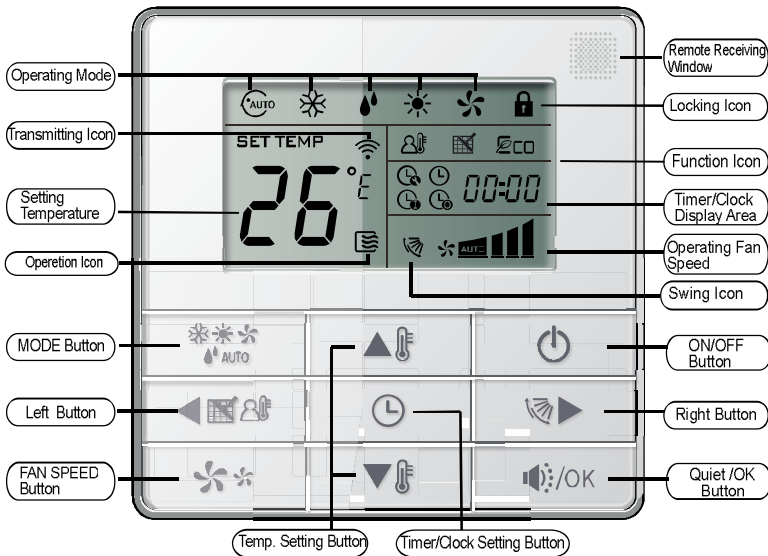
2.3 WIRED REMOTE CONTROLLER OUTLOOK

KJR-29B/BK-E, KJR-29B1/BK-E, KJR-29C/BK-E, KJR-29C1/BK-E



Note: This controllers has not economic operating function.

KJR-29A/B-E, KJR-29A1/B-E



Note: This controllers has not economic operating function.

2.4. OPERATION INSTRUCTIONS

Remote signal receiving function

The wired remote controller can be a remote signal receiving device, you can use the wireless remote controller to control the air-conditioner through the wired remote controller when the system have been powered on.



CAUTION


The wired remote controller will not receive the swing controlling instruction.

For the indoor unit with swinging function, you can directly use the wireless remote controller to control swinging through the display panel of the indoor unit, or use the swing button on the wired remote controller to control the indoor unit for swinging.

On and Off the air-conditioner

Press the On/Off button to control the indoor unit on and off status.

When the unit is turned off, press the ON/OFF button, the unit will be turned on and the operating icon  lights up.

When the unit is turned on, press the ON/OFF button, the unit will be turned off and the operating icons  lights off.

Set the operating mode

Press the mode button to set the operating mode, after each button press the operation mode will circle as follow:

AUTO→COOL→DRY→HEAT→FAN→AUTO

When the controller has been set to cool-only, then there is no HEAT mode.

Fan speed setting



Under COOL, HEAT and FAN modes, press the fan speed button can adjust the fan speed setting.

After each fan speed button press will circle as follow:

AUTO→LOW→MID→HIGH→AUTO.



Under AUTO and DRY modes the fan speed is not adjustable and the default fan speed is auto.







Temperature setting


Under AUTO, COOL, DRY, HEAT modes, press the temperature setting buttons  and  to set the temperature, the adjusting range is 17°~30°C (or 62°~88°F).



The setting temperature cannot be adjusted under FAN mode.

Timer on and Timer off setting

Press the timer/clock setting button, then enter into the timer on setting status, and the screen will display  and .

Press  and  buttons to adjust the timer. when the timer setting is less than 10 hours, each press  or  will increase or decrease 0.5 hour. When the timer setting is more than 10 hours, each press  or  will increase or decrease 1 hour, the maximum timer setting is 24 hours.

After finish adjusting the timer on setting, press the  button or wait for 5 seconds to confirm and exit the timer on setting.

Under the timer on setting status, press the timer/clock setting button, then enter into the timer off setting status, and the screen will display  and .

The setting method of timer off is the same as the timer on.

Under timer setting state, set the timer on and timer off to be 0.0h can cancel timer on and timer off.





CAUTION


If the wired remote controller has been set timer on/ off, press the ON/OFF to turn on/ turn off the unit then the timer will be canceled simultaneously.

Clock setting

Long press the timer/clock setting button for 3 seconds, then enter into the clock setting status.

The hour position of the clock will flash, and can press  and  to adjust the hour value.

After finishing the hour setting, press left button  or right button  to switch to minute position setting, then the minute position will flash, press  and  to adjust the minute value.

After finish the clock setting, press the  button or wait for 5 seconds to confirm and exit the setting state.

Quiet operation

Under COOL, HEAT, FAN modes, press the button to set into the quiet operation, it is used to reduce the running noise through setting the fan speed to low.

Under AUTO, DRY mode, the fan speed is auto and the button doesn't work.

Lock the wired remote controller

Press the temperature adjusting buttons and simultaneously, the wired remote controller enters into locking state, and the locking icon will be lighted up.

Under the locking state, the wired remote controller will not respond to the buttons pressing and the control instruction from the wireless remote controller.

Simultaneously press the temperature adjusting buttons and again can cancel the locking state.

Air filter cleaning reminding function

The wired remote controller records the total running time of the indoor unit, when the accumulated running time reaches the pre-setted value, the air filter cleaning reminding icon will be lighted up, to remind that the air filter of the indoor unit need to be cleaned.

Long press for 3 seconds, and reset the reminding icon and the wired remote controller will re-accumulate the total running time of the indoor unit.




CAUTION


The default setting value of the reminding function is 2500 hours, and it can change to be 1250 hours, 5000 hours or 10000 hours. The setting methods please refer to the installation manual.

Swing Function

If the indoor unit supports swing function, press the right button to adjust the air outlet direction of the indoor unit. Long press this button for 3 seconds can turn on or turn off the auto swing function, the swing icon will be lighted up when the auto swing function is turned on.

Follow Me function

When the system is running and the operating mode is AUTO, COOL or HEAT, press the  button will activate the Follow Me function, press this button again to deactivate the function. Operating mode changeover will deactivate the function as well.

When the Follow Me function is activated, the icon  will be light up, the wired remote controller will display room temperature read from the local sensor, and transmit the temperature value to the indoor unit every 3 minutes.

2.5. TECHNIQUE CERTIFICATION AND REQUIREMENT

- EMC should conform to the CCC certification.



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