



MULTI-ZONE UNIT

WIRED CONTROLLER INSTALLATION MANUAL

AB SERIES

COMFORT...BUILT TO LAST

- 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 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.

 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 -----

Contact an authorized service technician or certified HVAC contractor for installation, repair, maintenance, and/or re-installation of this unit.

Adhere to this installation manual.

Incorrect installation may lead to electric shock or fire.

Do not uninstall the unit randomly. Install per following instructions only.



NOTE

- ① Do not install the unit in a place vulnerable to leakage of flammable gases. If flammable gases are leaked and left around the wired controller, fire may occur.
 - ② Do not operate with wet hands or let water enter the wired controller. Otherwise, electric shock may occur.
 - ③ The wiring should adapt to the wired 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 forces should be applied to the terminals. Cut or frayed wires could cause heating to occur and result in fire.
-

2. INSTALLATION ACCESSORY

Select the installation location

Do not install in an environment near heavy oil, vapor or sulfureted gas. Doing so will cause product deformation and lead to system malfunction.

Preparation before installation

1. Please confirm that all the following parts have been included in this package.

No.	Name	Qty.	Remarks
1	Wired 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	24AWG

2. Prepare the following components on the site.

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

2. INSTALLATION ACCESSORY

Wired controller installation precautions

1. This manual provides the installation method of the wired controller. Refer to the wiring diagram of this installation manual to wire the wired controller with indoor unit.
2. The wired controller operates within a low voltage loop circuit. Do not connect to any 220V (commercial electricity) or 380V (high voltage) service. Do not wire the aforementioned voltages into this unit's circuit.
3. The Shielded wire of the wired controller must be reliably grounded.
4. The connective cable of the wired controller should not be longer than 65 ft (20 m).

3. INSTALLATION METHOD

1. Wired controller dimensions:

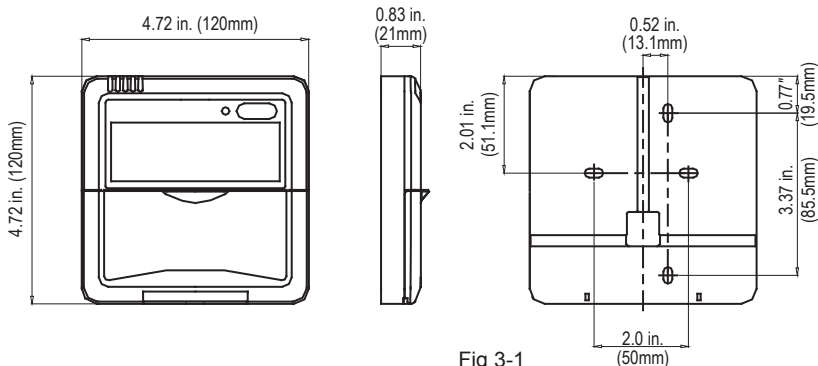


Fig 3-1

2. Wiring Diagram:

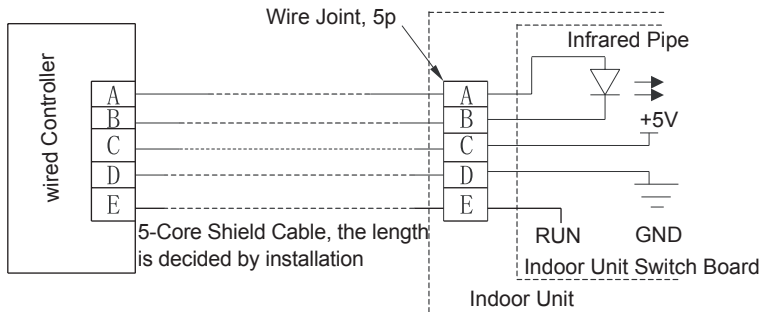
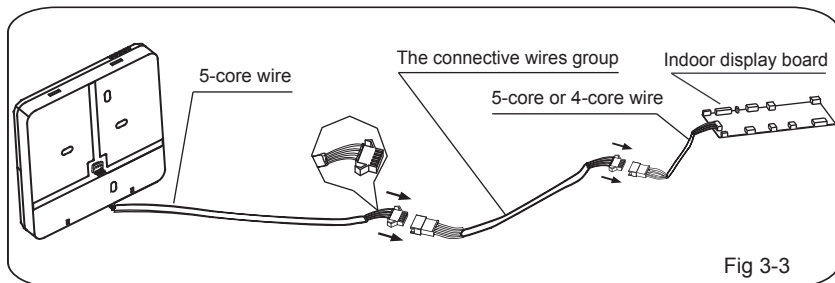


Fig 3-2

3. INSTALLATION METHOD

3. Wiring connections



- Connect the female joint of wire group from the main board with the male joint of connective wire group. (See Fig.3-3)
- Please connect the other side of connective wire group with the male joint of wired controller's wire group. (See Fig.3-3)

4. Remove the upper part of wired controller

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



NOTICE

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

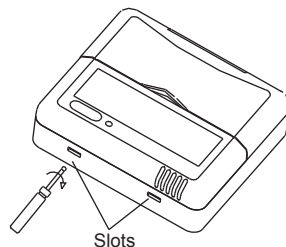
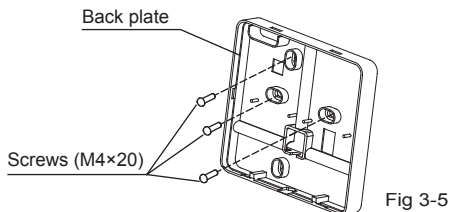


Fig 3-4

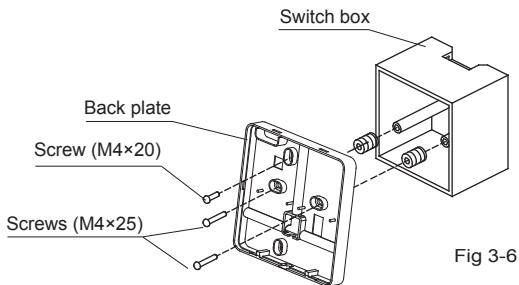
3. INSTALLATION METHOD

4. Fasten the back plate of the wired controller (continued)

- For exposed mounting, fasten the back plate on the wall with the 3 screws (M4×20) and plugs. (Fig.3-5)



- For flush-mounting, fasten the back plate on the switch box with 2 screws (M4×25) and fasten it on the wall with 1 screw (M4×20). (Fig.3-6)

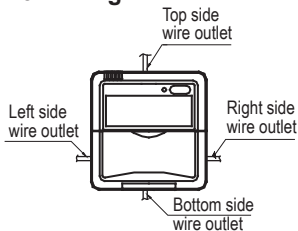


NOTICE

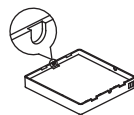
Put on a flat surface. Be careful not to distort the back plate of the wired controller by overtightening the mounting screws.

3. INSTALLATION METHOD

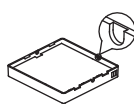
5. Wiring



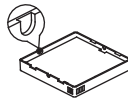
A. For exposed mounting, there are four different mounting positions. There are three that need cutting.



Cutting location of top side wire outlet



Cutting location of left side wire outlet

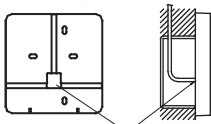


Cutting location of right side wire outlet

Fig 3-7

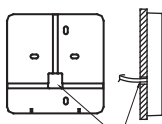
B. Shielded wiring

Embedded switch box wiring



Wiring hole

Wiring through the wall



Wall hole and wiring hole
Diameter of wall hole: $\Phi 0.787$ in.
($\Phi 20$ mm)

Fig 3-8

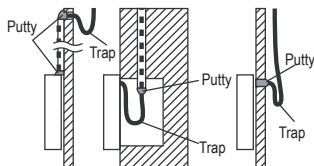


Fig 3-9



CAUTION

Do not let water enter into the wired controller. Use trap and tape to seal the connectors and wiring. (Fig. 3-9)

When installing, leave an additional length of wire to allow for removal or maintenance of the wired controller.

3. INSTALLATION METHOD

6. Reattach the upper part of the wired controller

- After adjusting the upper case and then closing the upper case; avoid pinching the wiring. (Fig 3-10)

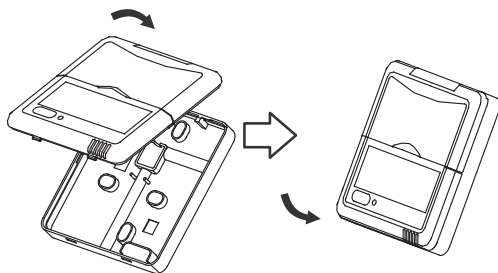


Fig 3-10

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



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Specification and performance data is subject to change without notice.

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