

OPTION PARTS

Wireless kit



WARNING

- Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
Loose connection or hold will cause abnormal heat generation or fire.
- Make sure the power supply is turned off when electric wiring work.
Otherwise, electric shock, malfunction and improper running may occur.



CAUTION

- DO NOT install the wireless kit at the following places in order to avoid malfunction.

(1) Places exposed to direct sunlight	(8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.
(2) Places near heat devices	(9) Places where the receiver is affected by infrared rays of any other communication devices
(3) High humidity places	(10) Places where some object may obstruct the communication with the remote controller
(4) Hot surface or cold surface enough to generate condensation	
(5) Places exposed to oil mist or steam directly	
(6) Uneven surface	
(7) Places affected by the direct airflow of the AC unit.	
- DO NOT leave the wireless kit without the cover.
In case the cover needs to be detached, protect the receiver with a packaging box or bag in order to keep it away from water and dust.






Note


- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air conditioner itself, refer to the installation manual enclosed in the package.

WIRELESS KIT INSTALLATION MANUAL

⚠ WARNING

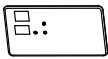




- **Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.**
Loose connections or hold could result in abnormal heat generation or fire. 
- **Turn off the power source during servicing or inspection work.**
If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan. 
- **Shut off the power before electrical wiring work.**
It could cause electric shock, unit failure and improper running. 

⚠ CAUTION

- **DO NOT install it on the following places**
 1. Places exposed to direct sunlight
 2. Places near heat devices
 3. High humidity places
 4. Places where the receiver is influenced by the fluorescent lamp or sunlight.
 5. Places where the receiver is affected by infrared rays of any other communication devices.
 6. Places where some object may obstruct the communication with the remote controller.

① Accessories

Please make sure that you have all of the following accessories.

Receiver	Remoto controller holder	AAA dry cell battery (RO3)	Wood screw for holder	Wireless remote controller
				
1	1	2	2	1

② Preparation before installation

Setting on site

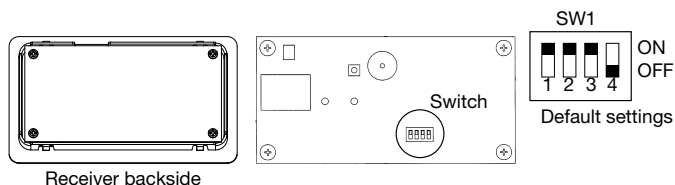
PCB on the receiver has the following switches to set the function.

Default setting is shown with ☐ mark.

SW1	Prevents interference during plural setting	ON : Normal (1ch) OFF : Customized (2ch)
SW2	Receiver master/slave setting	ON : Master OFF : Slave
SW3	Buzzer valid/Invalid	ON : Valid OFF : Invalid
SW4	Auto restart	ON : Valid OFF : Invalid

To change setting

1. Remove four screws located on the back of the receiver and detach the board.
2. Change the setting by the switch on PCB.



3. When switch 1 is turned to off position, change the wireless remote controller setting.
(For the method of changing the setting, refer to **Setting to avoid mixed communication** on page 2)
Refer to **Wireless remote controller unit operation distance** of **⑤ Receiver** in case of plural setting.

Master/Slave setting when using plural remote controllers

Up to two receiver or wired remote controller can be installed in one indoor unit group.

When two receiver or wired remote controller are used, it is necessary to change SW on the PCB to set it as slave.

③ How to install the receiver

The receiver can be installed by replacing with a cover of the panel.

CAUTION : When installing the receiver after unit has been fixed, injury due to falling may result because of working at high place.

① Remove the cover

Insert a flat-blade screwdriver into the dented part (2 places), and wrench slightly.

② Connect the wiring

Connect wiring of the receiver to the wiring in the back.

ATTENTION

DO NOT remove the clamp fixed the wiring.

③ Installation of the receiver

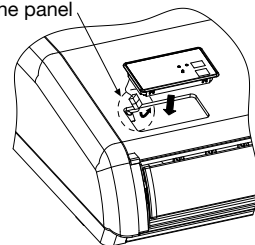
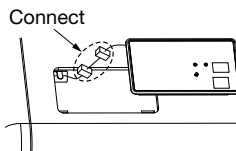
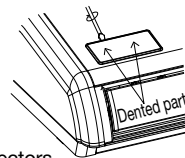
Check direction of the receiver, and fix to the panel.

CAUTION : Connect the connectors before installing the receiver.

In case of connecting after the receiver had been installed, it will be necessary to remove the panel.

Connect

Place the connectors under the panel



④ Wireless remote controller

CAUTION DO NOT install it on the following places.

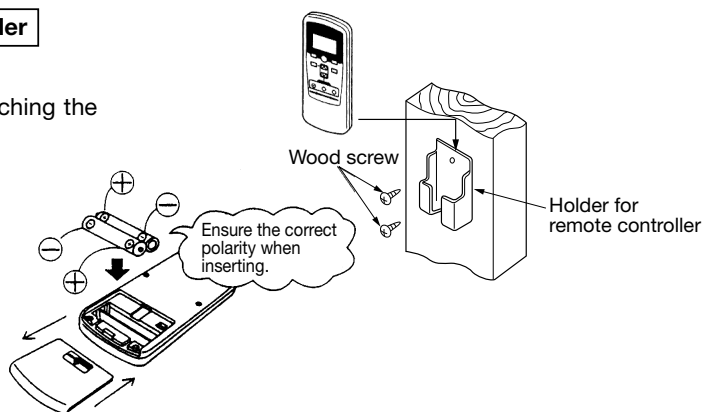
1. Places exposed to direct sunlight
2. Hot surface or cold surface enough to generate condensation
3. Places near heat devices
4. Places exposed to oil mist or steam directly.
5. High humidity places
6. Uneven surface

Installation tips for the remote controller holder

- Adjust and keep the holder up right
- Tighten the screw to the end to avoid scratching the remote controller.
- DO NOT attach the holder on plaster wall

How to insert batteries

- ① Detach the back lid.
- ② Insert the batteries. (two AAA batteries)
- ③ Reattach the back lid.



Setting to avoid mixed communication

Pressing **ACL** and **AIR FLOW** button at the same time or inserting the batteries with pressing **AIR FLOW** button will customize the signal.

Setting to disable the Auto mode operation

VRF system (except heat recovery 3-pipe system) cannot be operated in Auto mode.

Make sure to set the remote controller for the models so as not to be able to choose Auto mode.

Pressing **ACL** and **MODE** button at the same time or inserting the batteries with pressing **MODE** button will make auto mode operation.

ATTENTION

When the batteries are removed, the setting will return to the default setting.

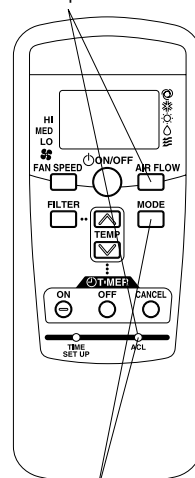
Please make sure to reset it when the batteries are replaced.

Caution

Instruct the customer to set the mentioned above when replacing the batteries.

(How to set is also mentioned in the user's manual attached on the air conditioner.)

Radio prevention mode



Auto mode operation setting

⑤ Receiver

Control plural indoor units with one remote controller

Up to 16 indoor units can be connected.

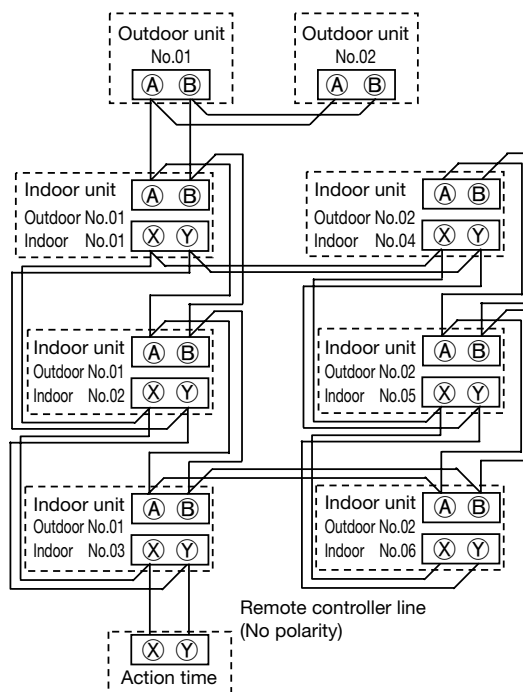
- ① Connect indoor units with each other with 2-core wires. As for size, refer to the following note.
- ② The receiver wires must be connected only with the indoor unit that will be operated by the remote controller directly.
- ③ Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.

Restrictions on the thickness and length of wire
(Maximum total extension 600m.)

Standard	Within 100m x 0.3 mm ²
	Within 200m x 0.5 mm ²
	Within 300m x 0.75 mm ²
	Within 400m x 1.25 mm ²
	Within 600m x 2.0 mm ²

After a unit is energized, it is possible to display an indoor unit address by pressing **AIR CON NO** button on the remote control unit.

Press the ▲ or ▼ button to make sure that all indoor units connected are displayed in order.



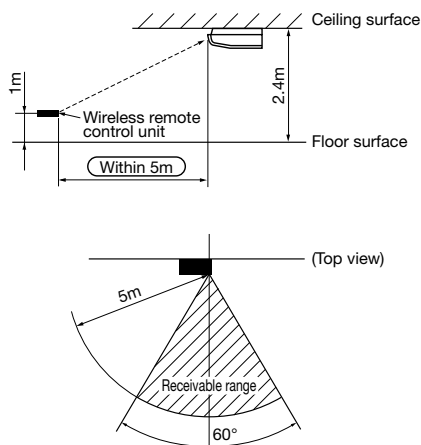
Wireless remote controller unit operation distance

- ① Standard signal receiving range

[Condition]

Illuminance at the receiver area: 360 lux.

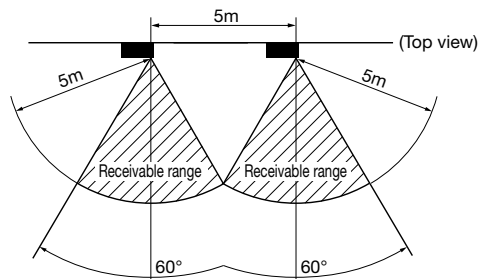
(When no lighting fixture is located within 1m of indoor unit in an ordinary office)



- ② Points for attention in connecting a plural number of indoor units

[Condition]

Illuminance at the receiver area: 360 lux.



⑤ Receiver (continued)

Backup button

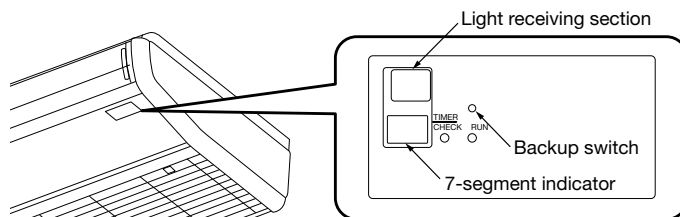
A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

- (1) If pressed while the air conditioner is in a halt, it will cause the air conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).

Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal

- (2) If pressed while the air conditioner is in operation, it will stop the air conditioner.



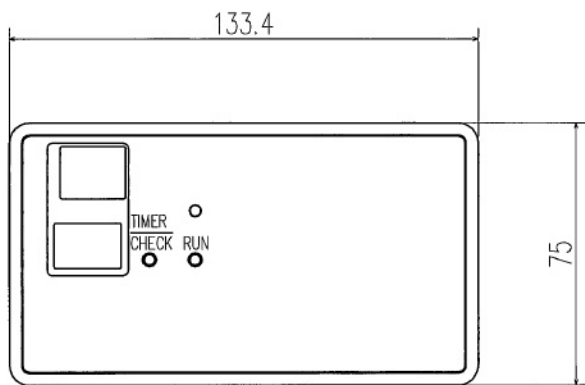
Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the two-digit display

A two-digit indicator (7-segment indicator) is provided on the receiver section.

- (1) An indication will be displayed for one hour after power on.
- (2) An indication appears for 3.5 seconds when a Stop command is sent from the wireless remote control unit while the air conditioner is not running.
- (3) An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- (4) When there are no error records to indicate, addresses are displayed for all of the connected units.
- (5) When there are some error records remaining, the error records are displayed.
- (6) Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.



Receiver

Setting switch on PCB of receiver

SW1	Customized signal setting to avoid mixed communication	ON: Normal	OFF: Remote
SW2	Receiver master/slave setting	ON: Master	OFF: Slave
SW3	Buzzer valid/invalid	ON: Valid	OFF: Invalid
SW4	Auto restart	ON: Valid	OFF: Invalid

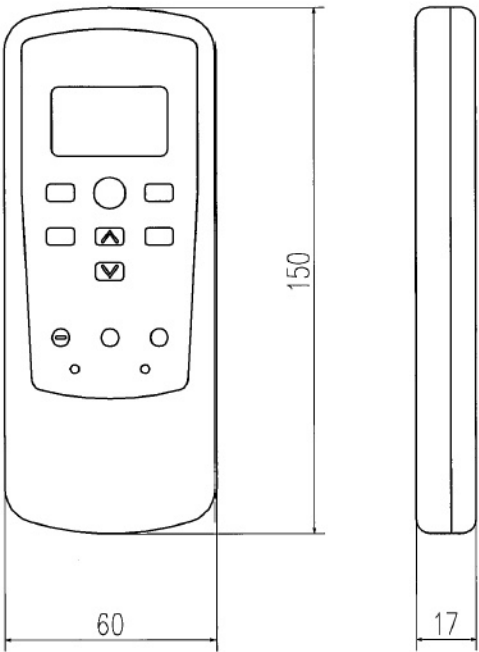
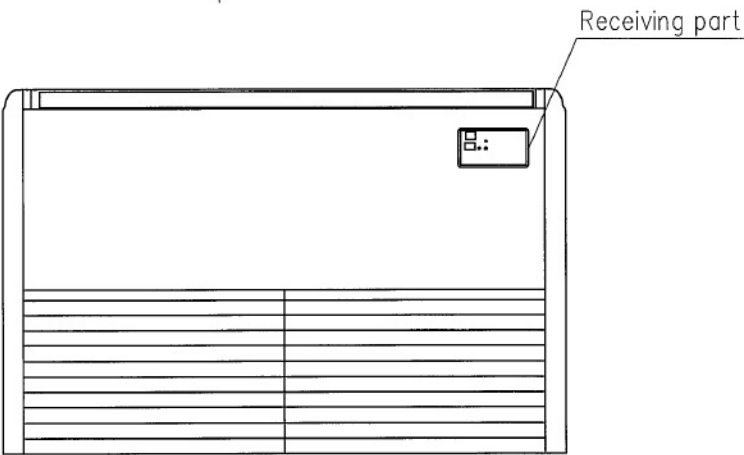
Default setting : ☐ mark

- Notes (1) Two R03 AAA dry cell batteries for remote controller are enclosed.
- (2) See spec sheet of "Wireless remote controller" about remote controller.

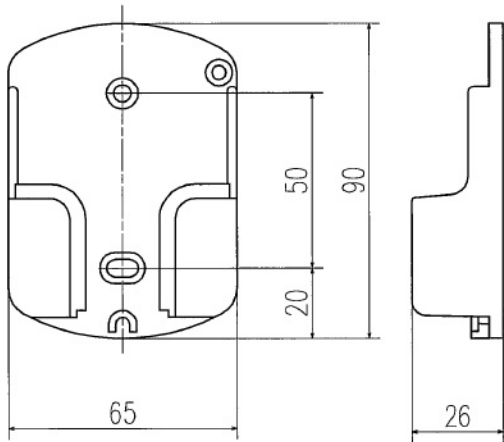
Installation of remote controller

- DO NOT install it on the following places it could cause breakdown or deformation of remote controller.
- (1) Places exposed to direct sunlight
 - (2) Hot surface or cold surface enough to generate condensation
 - (3) Places near heat devices
 - (4) Places exposed to oil mist or steam directly
 - (5) High humidity places
 - (6) Uneven surface

Installation position of wireless kit



Remote controller



Remote controller holder