

Installation Manual for Receiver Kit

Model: HR4A10NEWQ

Please read this document in detail before installation.

Note: this document must be used in the following installation operations and therefore must be well kept by the user.
(Handling and installation) → (wiring) → (trial running) → (user)

Foreword

This product is a general control product and its functions need support of the air conditioning system. Connection with some air conditioning systems may result in failure in some functions described in this IFU. Please consult your dealer for further details.

- When selecting the installation place, first consideration shall be given to the convenience of users and the place must be approved by the user.

Please do not install this product at the following places:

- Places where there is flying sprays of oils (including mechanical oil) and more vapor, and places where more sulfide gases, such as hot springs, exist (which possibly results in fire and deforming, corroding and damaging the product);
- Coastal regions with high salt content, and alkaline or acidic environment(possibly result in the product being corroded);
- Places where children are accessible; ○ Humid places; ○ Places facing towards the air outlet of the air conditioner;
- Places where there are much flying dust or dust; ○ Places under construction.
- When using devices that release electromagnetic wave, for instance, some medical devices, to prevent the product and connected devices from malfunctioning, do not install the project in such a way that makes the electromagnetic-wave emission face look directly at the product.
 - To prevent the product and its connected devices from impact of electromagnetic wave, please put any device generating electromagnetic wave, such as radios, more than 3 meters away from the product.
 - The product shall be mounted inside an iron box and the connecting cable shall be housed in iron conduct for shielding.
 - In the event that some devices generate any interference at the side of the power source, please install a wave filter etc. to avert such interference.

Safety Summary

- Please read carefully the 【Safety Summary】 before use.
- Issues marked to be paid attention here include two categories: ⚠「Warning」 and ⚠「Caution」. Issues marked with ⚠「Warning」 mean those that may result in serious consequence such as severe injury or death due to wrong installation. Issues marked with ⚠「Caution」 refer to those that may also cause serious consequence depending on situations. What is described behind both are important to safety, therefore please observe it.
- After installation, conduct trial running; after confirming that there is no anomaly, please describe the operational and maintenance methods to the user and ask the user to keep well the Operation Manual.

【Meanings of Marks】

- ⚠ Warning: indicate any malfunction man cause severe injury or death.
- ⚠ Caution: indicate any malfunction man cause injury or damage to items.
- ❗ : Indicate a mandatory issue, instructing behaviors of non-specific general users.
- 🚫 : Indicate a forbidden issue.

Installation

Warning	● Please install the product in strict accordance with this Instructions for Use. Otherwise, accidents such as electric shock, fire and falling may happen. ❗
	● Please install the product at the place that can full bear its weight. Otherwise, any hurt accident may happen due to falling of the product.
	● Please do not install the product at any place where any combustible gas may be generated or come in. Otherwise, accidents such as electric shock and fire may happen. 🚫
Caution	● Begin installing the product only after the power supply is disconnected. Otherwise, electric shock may happen. ❗
	● If the product with the signal receiver is interfered with by external light source such as fluorescent lamp (frequency-varying fluorescent lamp), it may not receive remote control signals normally.

Electric Installation

Warning	● The electric installer shall have qualifications for such construction. Please appoint a qualified dealer to do the job. Otherwise, electric shock may happen. ❗
	● During electric installation, please comply with applicable national standards and the Instructions for Use and make sure a dedicated circuit is used. Otherwise, accidents such as electric shock and fire may happen. ❗
	● Please use the required connecting conductor. Otherwise, fire and electric shock may happen. ❗
	● Cable shall be connected securely and firmly. Any loose connection may lead to heated conductors which may cause fire and electric shock. ❗
	● When the control board of the product or its related device must be taken out due to electric cabling and spot inspection etc., please completely disconnect the power supply first. Otherwise, electric shock may happen. ❗
Caution	● Avoid the communication cable in parallel with the power cable. Otherwise, it may generate interference causing malfunctions.

☐ Indicate it is an item requiring confirmation, adding a tick after confirmation. ☒

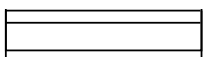
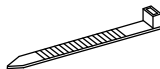
【Suitable Type】

☐ Types of indoor devices suiting the receiver kit

Model of Receiver Kit	Model of Suitable Indoor Unit	
HR4A10NEWQ	4-Way Cassette Type	28~160 (K3)

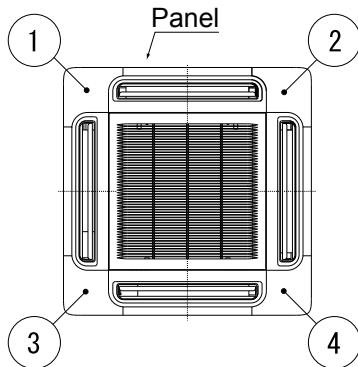
【Before Installation】

☐ Please confirm the following accessories are in the package before installation.

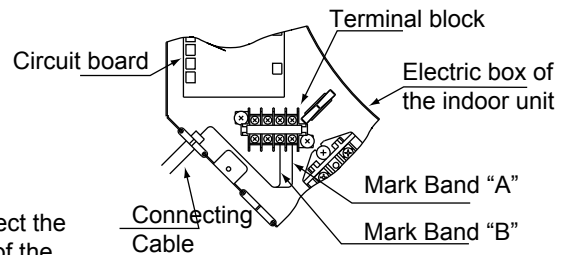
Type	Accessory	Q'ty	Remarks
HR4A10NEWQ	Receiver Kit 	1	With Connecting Cable
	Connecting Cable 	1	For wire connection
	Wiring Cover 	1	For Protection of Connecting Cable
	Plastic Band 	3	For Fixing Wiring Cover and Connecting Cable

【Key Points for Installation】

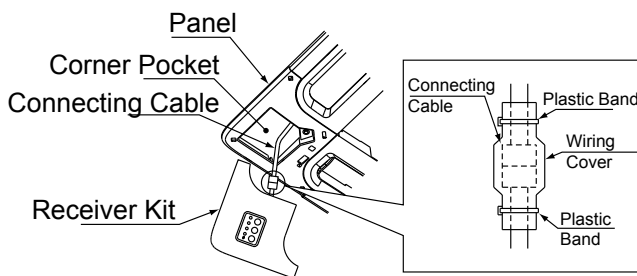
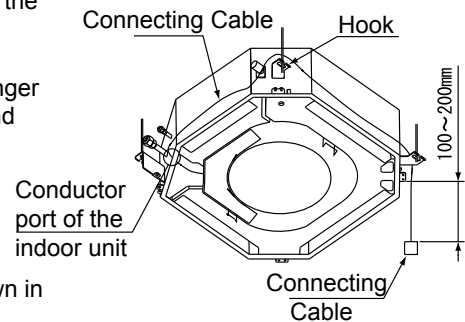
- 1) Please install the receiver kit while installing the indoor unit and the panel.
- 2) When the receiver kit is installed after the indoor unit and the panel were installed, power it off and then remove the panel before installing the receiver.
- 3) The receiver kit can be installed at any corner of ①②③④ on the panel. If it will be used for a few units, the installation direction and place shall be determined after discussion with the user.



Note) SW3 of the receiver can be used to set functions; please set the functions before installing the panel by referring to the instructions in Page 15.

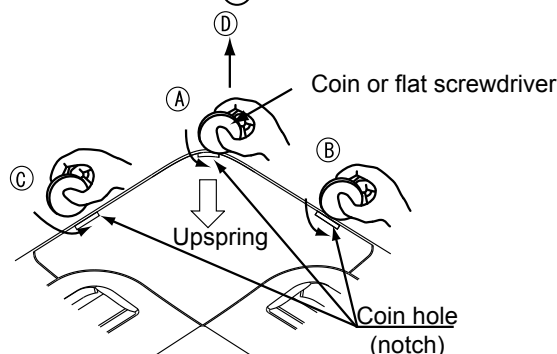


- 4) Remove the cover of the electric box of the indoor unit, and connect the attached relay connector to the terminal block of the electric box of the indoor device as shown in the right figure.
- 5) After the attached connecting cable is connected to the terminal block, draw the connecting cable from the wiring inlet of the indoor device into the ceiling or to the outside of the outdoor device, then draw the connecting cable to the place where the receiver is to be installed, referring to the indoor device's instructions. Move the connecting cable through the hanger of the indoor device to the place where the receiver is to be installed. And reserve a 100 ~ 200 mm long connecting cable at the relay connector.
- 6) Install the selected panel
Please refer to the panel's Instructions for Installation for the installation method.
- 7) After the panel is installed, begin installing the receiver kit.
Draw the connecting cable out of the corner pocket of the panel as shown in the figure below, and connect the conductor of the receiver kit to the connector of the connecting cable. After the connector is connected, wrap tightly the connector with the attached conductor sleeve and fix it with a wire buckle.



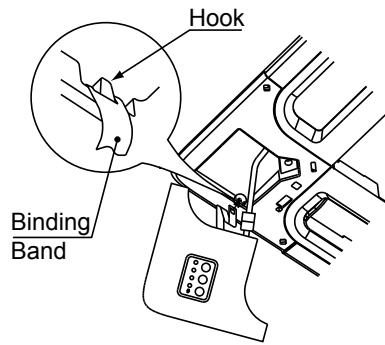
●How to take it out

- ① Insert a coin or a flat screwdriver in the coil hole on the site (A) of the corner box's protective cover, screw it downward and the corner box's protective cover upsprings. In this case, insert the coin or a flat screwdriver in the coin holes on (B) and (C), screw it downward, the protective cover upsprings like (A). when 3 snap springs pops up, pull them out in the direction (D).



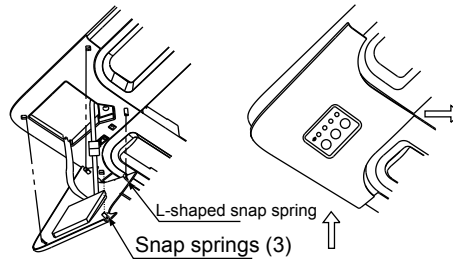
②As shown in the figure below, hang the binding band on the back of the receiver kit on the hook of the panel.

Note) Make sure the binding band is hung on the hook. Otherwise, the receiver possibly falls off and hurts people when it is taken out.



③While pressing the conductor, insert the L-shaped snap spring on the back of the receiver kit in the corner pocket, and then press the remaining 3 snap springs in the corner pocket in the direction of the arrow.

Note) make sure the L-shaped snap spring on the back of the receiver kit is hung on the panel. If it is not hung on, other snap spring may be damaged.



□8) After the receiver kit is installed, begin installing the protective cover of the corner pocket of the panel (3 sites). For the installation method, see the panel's Instructions for Installation.

Note) when the receiver kit is installed, a corner pocket will leave unused.

【Set the Receiver Kit】



Warning

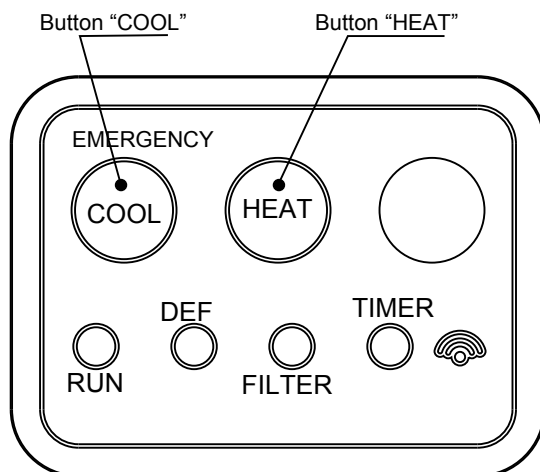
Before setting the dial switch of the receiver, make sure it is really powered off, otherwise, it may cause electric shock.



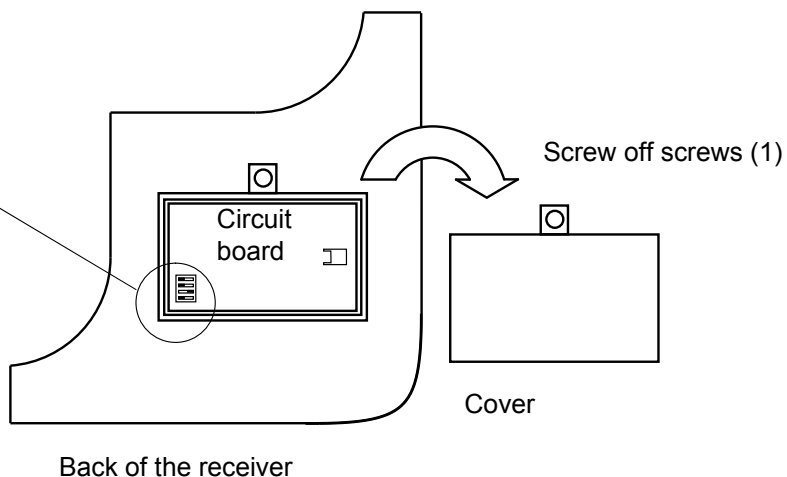
□ Buttons and the dial switch of the receiver kit

□ 1) The signal receiver and its dial switch are located as shown in the figure below.

Note) after the dial switch is set, keep an eye on the location to draw out the conductor when installing the box cover.



The set state of the dial switch SW3 before release from factory



□2) Buttons [COOL] and [HEAT] are for emergency operation. It will be used for compulsory running when the remote control's battery runs out.

Button “COOL”: Press “COOL” so that the cooling operation is started; Press “COOL” again so that the cooling operation is stopped.

Button “HEAT”: Press “HEAT” so that the heating operation is started. Press “HEAT” again so that the heating operation is stopped.

Note) during emergency operation, the yellow indicating light on the receiver is flickering in the cycle of 0. 5 second on/0.5 second off.

□3) The dial switch (SW3) is optional for function setting and when needed, shall be set as per the following requirements.

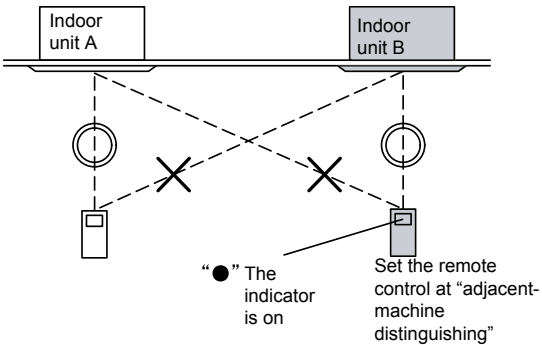
Item	Dial switch (SW3)				Function
	1	2	3	4	
Set master/slave	○	×	×	×	When using 2 remote controls, set to switch between the master remote control (set as OFF)/the slave remote control (set as ON)
Set to distinguish from adjacent device	×	○	×	×	When ON is set, it is at the mode B of the wireless remote control (distinguish from adjacent devices).

“○” : Indicate ON; “×” : Indicate OFF;

【Adjacent-machine-distinguishing control mode】

Note) “Adjacent-machine-distinguishing control” mode cannot be used in the following case: Multiple-device simultaneous running mode is set.

When two indoor unit are set adjacently, sometimes, both indoor unit may receive signals from the remote control simultaneously. To ensure both indoor unit are operated properly, the receiver kit of one of them may be set at the mode [Adjacent-machine-distinguishing control]. For example, for two indoor unit A and B as shown in the right figure, set B at the mode [Adjacent-machine-distinguishing control].



【Method to set the adjacent-machine-distinguishing control mode】

□1) Set the receiver kit

Set the button #2 of the dial switch (SW3) on the signal receiver of the indoor device B (object to be set) to the side ON.

□2) Set the wireless remote control

Set it by referring to the wireless remote control's Instructions for Use.

【Method to cancel the adjacent-machine-distinguishing control mode】

□1) Set the receiver kit

the adjacent-machine-distinguishing control mode can be cancelled just by setting the button #2 of the dial switch (SW3) on the signal receiver to the side OFF.

□2) Set the wireless remote control

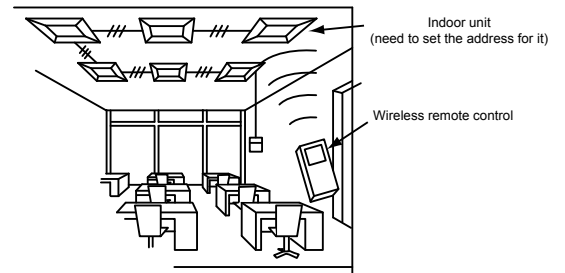
Cancel it by referring to the wireless remote control's Operation Manual.

【About simultaneous control of multiple units】

□ One remote control can be used to control simultaneously a number of indoor unit (up to 16 devices).

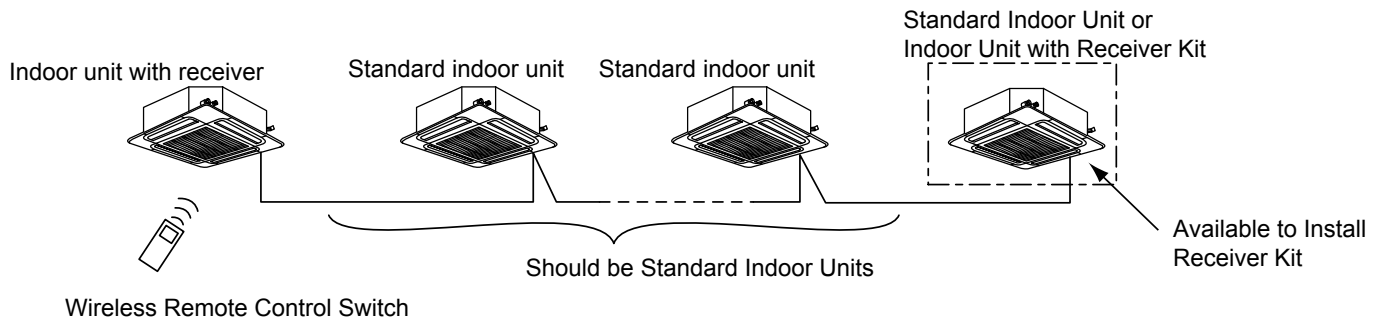
When a number indoor devices are installed in a large room, one single remote control can be used to run and stop all these devices.

Note): when a number of units are under simultaneous control, all their indoor devices shall be placed in the same room. If using one remote control to control air-conditioners in more than two rooms, it is possible to forget to close one.



【Set the Receiver Kit】

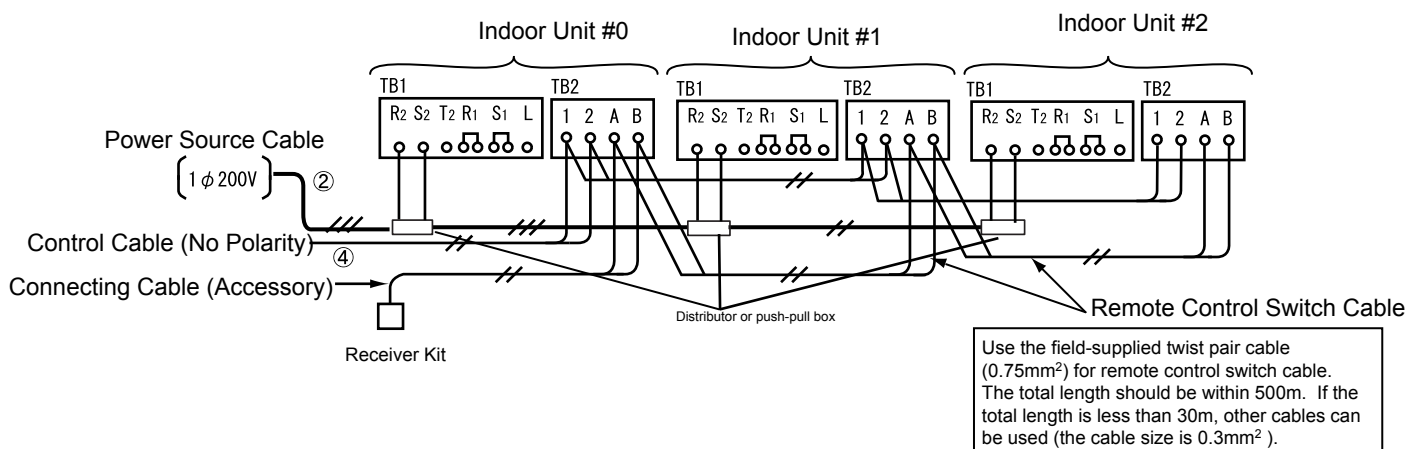
□ When a wireless remote control is used to control running/stop of a number of indoor unit, it just needs to install the receiver kit on the control object while other indoor devices are standard. However, within the same system, the receiver kits can be only installed on at most two indoor devices.



【Methods for conductor connection and setting for the purpose of simultaneous control of multiple units】

□ 1) Method to connect conductors between indoor units

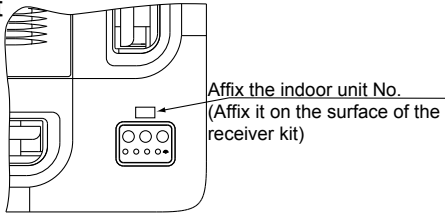
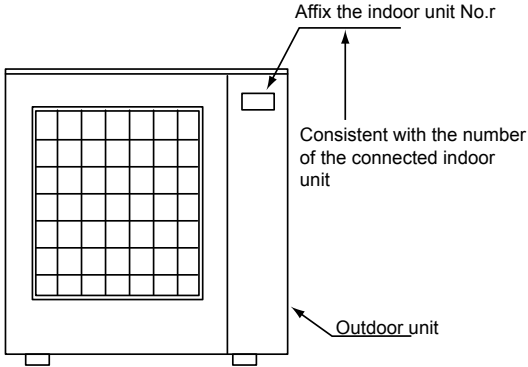
Perform the connection work as following figure.



□ 2) The remote control's signal conductors of all units shall be in parallel with the power conductor within the device, and shall be fixed with wire buckle at key places. The distance between the signal conductor and the power conductor shall be at least 30 mm outside the devices. Or, put the signal conductor through the protective sleeve one end of which shall be grounded. When a shielded signal conductor is used, one end of the shielding net shall be grounded.

□ 3) Set addresses of all indoor devices.

□4) After the rotary switch is set, affix the indoor unit No. nameplate supplied with the remote control on the device at the location as shown in the figure below.

Location to affix the device-number name plate of the indoor unit	Location to affix the device-number name plate of the indoor unit
For air-out-in-four-directions embedded type of indoor unit 	

【Method for trial running with the wireless remote control】

□Please test it in accordance with the wireless remote control's Operation Manual.

【Alarm indications concerning the receiver kit】

Note 1): when the protective device acts during normal or trial running, the receiver kit's running indicating light will be flickering in the cycle of 0.5 second on/0.5 second off.

Note 2): the alarm code can be confirmed by the number of times that the indicating lights for defrosting and strainer flicker.

Indicating light for defrosting: the number of times of flickering is the ten-digit number of the alarm code.

Indicating light for filter: the number of times of flickering is the unit-digit number of the alarm code.

Example): in the case of the alarm code 35

The indicating light for defrosting flickers 3 times in the cycle of 0.5 second on/0.5 second off, and then the indicating light for strainer flickers 5 times in the cycle of 0.5 second on/0.5 second off. The abovementioned action will repeat until the alarm is terminated.

Note): for alarm code sheet, please refer to various devices' Manual for Installation and Maintenance - Outdoor Device.

