

RKZ012A099

(2) Interface kit (SC-BIKN2-E)

Accessories included in package

Be sure to check all the accessories included in package.

No.	Part name	Quantity
①	Indoor unit's connection cable (cable length: 1.8m)	1
②	Wood screws (for mounting the interface: $\phi 4 \times 25$)	2
③	Tapping screws (for the cable clamp and the interface mounting bracket)	3
④	Interface mounting bracket	1
⑤	Cable clamp (for the indoor unit's connection cable)	1
⑥	CnT terminal connection cable (total cable length: 0.5m)	1

Safety precautions

Before use, please read these Safety precautions thoroughly before installation.

- All the cautionary items mentioned below are important safety related items to be taken into consideration, so be sure to observe them at all times.

⚠ Warning

Incorrect installation could lead to serious consequences such as death, major injury or environmental destruction.

- Symbols used in these precautions



Always go along these instruction.

- After completed installation, carry out trial operation to confirm no anomaly, and ask the user to keep this installation manual in a good place for future reference.



Warnings



- **Installation must be carried out by a qualified installer.**

If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction.

- **Install it in full accordance with the installation manual.**

Incorrect installation may cause an electric shock, fire and personal injury.

- **Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this installation manual.**

Incorrect installation may cause an electric shock, fire and personal injury.

- **Use the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly.**

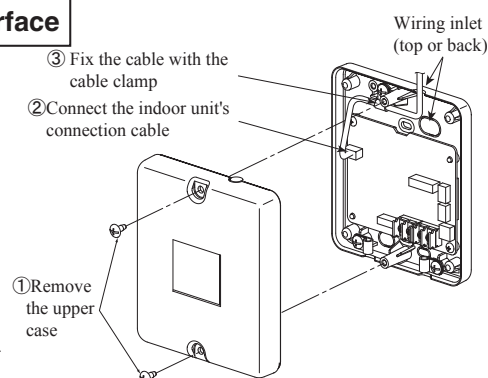
Incomplete connection may cause malfunction, and lead to heat generation and fire.

- **Use the original accessories and specified components for installation.**

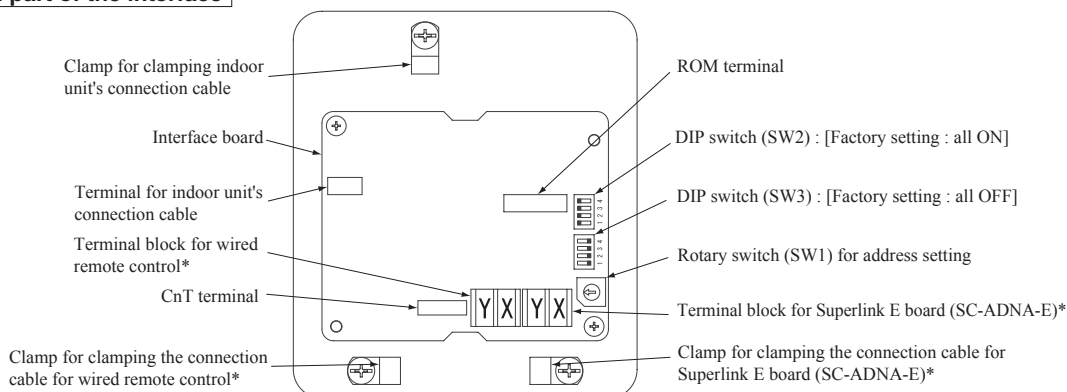
If the parts other than those prescribed by us are used, it may cause an electric shock, fire and personal injury.

Connecting the indoor unit's connection cable to the interface

- ① Remove the upper case of the interface.
 - Remove 2 screws from the interface casing before removal of upper casing.
- ② Connect the indoor unit's connection cable to the interface.
 - Connect the connector of the indoor unit connection cable to the connector on the interface's circuit board.
- ③ Fix the indoor unit's connection cable with the cable clamp.
 - Cable can be brought in from the top or from the back.
 - Cut out the punch-outs for the connection cables running into the casing with cutter.
- ④ Connect the indoor unit's connection cable to the indoor control PCB.
 - Connect the indoor unit's connection cable to the indoor control PCB securely.
 - Clamp the connection cable to the indoor control box securely with the cable clamp provided as an accessory.
 - Regarding the cable connection to the indoor unit, refer to the installation manual for indoor unit.



Name of each part of the interface



*Either the connection cables of Superlink E board (SC-ADNA-E) or of wired remote control is connectable.

Switch	Setting	Function	Switch	Setting	Function
SW2-1	ON**	CnT level input	SW2-3	ON**	External input (CnT input)
	OFF	CnT pulse input		OFF	Operation permission/prohibition (CnT input)
SW2-2	ON**	Wired remote control : Enable	SW2-4	ON**	Annual cooling : Enable***
	OFF	Wired remote control : Disable		OFF	Annual cooling : Disable***

** Factory setting

*** Indoor fan control at low outdoor air temperature in cooling

Installation of the interface

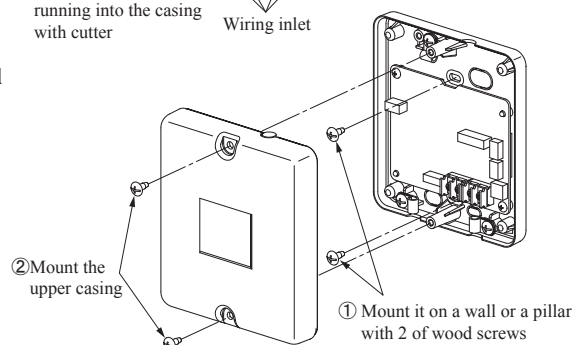
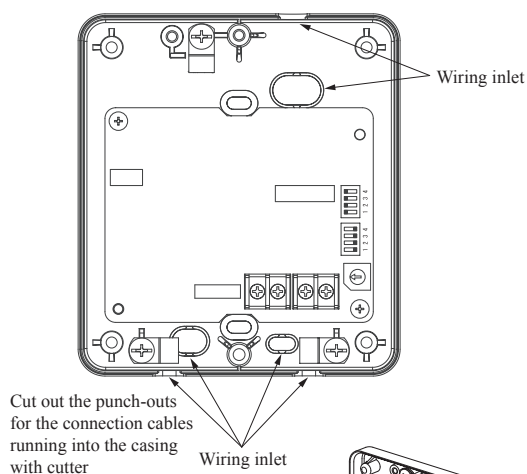
- Install the interface within the range of the connection cable length (approximately 1.3m) from the indoor unit.
- Be sure not to extend the connection cable on site. If the connection cable is extended, malfunction may occur.
- Fix the interface on the wall, pillar or the like.

- Don't install the interface and wired remote control at the following places.

- Places exposed to direct sunlight
- Places near heating devices
- High humidity places
- Surfaces where are enough hot or cold to generate condensation
- Places exposed to oil mist or steam directly
- Uneven surface

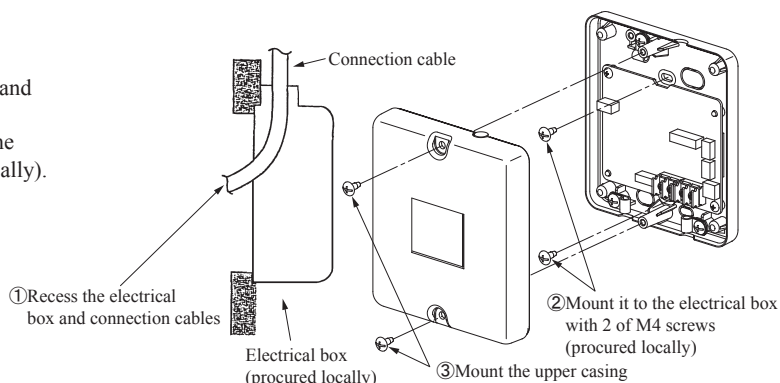
Mounting the interface directly on a wall

- ① Mount the lower casing of the interface on a flat surface with wood screws provided as standard accessory.
- ② Mount the upper casing.



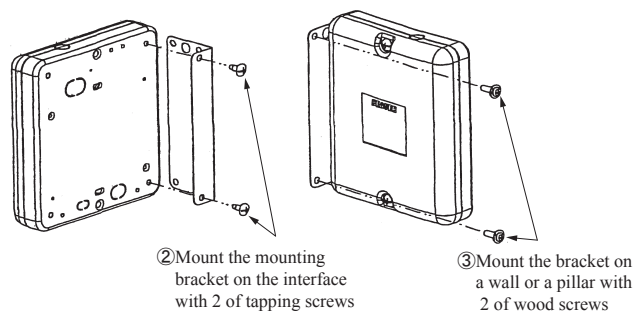
Recessing the interface in the wall

- ① Recess the electrical box (procured locally) and connection cables in the wall.
- ② Mount the lower casing of the interface to the electrical box with M4 screws (procured locally).
- ③ Mount the upper casing.



Mounting the interface with the mounting bracket

- ① Mount the upper casing.
- ② Mount the mounting bracket to the interface with tapping screws provided as standard accessory.
- ③ Mount the mounting bracket on wall or the like with wood screws provided as standard accessory.



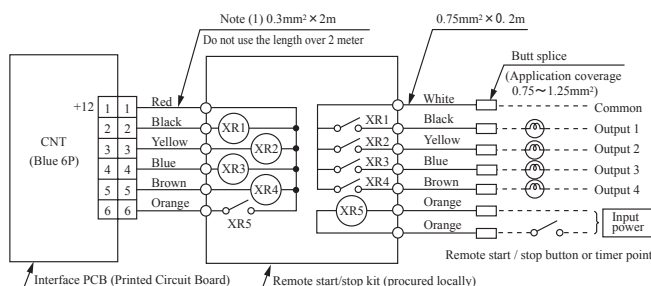
Installation check items

- ☐ Are the connection cables connected securely to the terminal blocks and connectors?
- ☐ Are the thickness and length of the connection cables conformed with the standard?

Functions of CnT connector

It is available to operate the air-conditioner and to monitor the operation status with the external control unit (remote display) by sending the input/output signal through CnT connector on the indoor control PCB.

- ① Connect a external remote control unit (procured locally) to CnT terminal.
- ② In case of the pulse input, switch OFF the DIP switch SW2-1 on the interface PCB.
- ③ When setting operation permission/prohibition mode, switch OFF the DIP switch SW2-3 on the interface PCB.



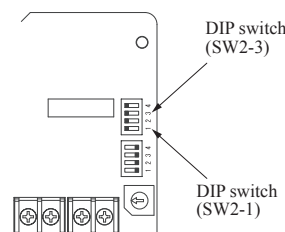
Input/Output	Function	Output signal		Content
		Relay	ON/OFF	
Output 1	Operation output	XR ₁	ON	During air-conditioner operation
Output 2	Heating output	XR ₂	ON	During heating operation
Output 3	Compressor operation output	XR ₃	ON	During compressor running
Output 4	Malfunction output	XR ₄	ON	During anomalous stop

- XR₁₋₄ are for the DC 12V relay
- XR₅ is a DC 12/24V or AC 220-240V relay
- CnT connector (local) maker, model

Connector	Molex	5264-06
Terminals	Molex	5263T

Input/Output	Function	SW2-1		SW2-3		Air-conditioner	Operation by remote control
		Setting	Setting	Input signal	Content		
Input	External control input	ON*	Level input	Level	OFF→ON	ON	Allowed
					ON→OFF	OFF	
					OFF→ON	OFF	
		OFF	Pulse input	Pulse	ON→OFF	OFF	Not allowed
					OFF→ON	ON	
					ON→OFF	OFF	

* Factory setting



In case of the eco touch remote control (RC-EX3 or later model), the external outputs (1 – 4) and the external input can be changed using the function setting of eco touch remote control. For the setting method, refer to the installation manual. Also refer to the technical manual to know how it is adapted to the function setting for the external outputs and input, at the indoor unit side.

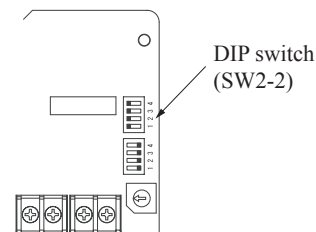
Connection of Superlink E board

Regarding the connection of Superlink E board, refer to the installation manual of Superlink E board.

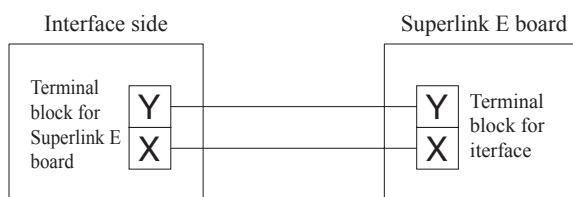
For electrical work, power source for all of units in the Superlink system must be turned OFF.

- ① Switch ON the DIP switch SW2-2 (Factory setting: ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.



- ② Wiring connection between the interface and the Superlink E board.



No.	Names of recommended signal wires
1	Shielded wire
2	Vinyl cabtyre round cord
3	Vinyl cabtyre round cable
4	Vinyl insulated wire vinyl sheathed cable for control

Within 200 m 0.5 mm² × 2 cores
 Within 300 m 0.75 mm² × 2 cores
 Within 400 m 1.25 mm² × 2 cores
 Within 600 m 2.0 mm² × 2 cores

- ③ Clamp the connection cables with cable clamps.

Connection of wired remote control

Regarding the connection of wired remote control, refer to the installation manual of wired remote control.

① Switch ON the DIP switch SW2-2 (Factory setting : ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.

② Wiring connection between the interface and the wired remote control.

Installation and wiring of wired remote control

Ⓐ Install the wired remote control with reference to the attached installation manual of wired remote control.

Ⓑ 0.3mm² × 2 cores cable should be used for the wiring of wired remote control.

Ⓒ Maximum length of wiring is 600m.

If the length of wiring exceeds 100m, change the size of cable as mentioned below.

100m-200m: 0.5mm² × 2 cores, 300m or less: 0.75mm² × 2 cores, 400m or less: 1.25mm² × 2 cores, 600m or less: 2.0mm² × 2 cores

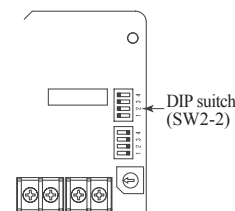
However, cable size connecting to the terminal of wired remote control should not exceed 0.5mm². Accordingly if the size of connection cable exceeds 0.5mm², be sure to downsize it to 0.5mm² at the nearest section of the wired remote control and waterproof treatment should be done at the connecting section in order to avoid contact failure.

Ⓓ Don't use the multi-core cable to avoid malfunction.

Ⓔ Keep the wiring of wired remote control away from grounding (Don't touch it to any metal frame of building, etc.).

Ⓕ Connect the connection cables to the terminal blocks of the wired remote control and the interface securely (no polarity).

③ Clamp the connection cables with cable clamps.



Control of multiple units by a single wired remote control

Multiple units (up to 16) can be controlled by a single wired remote control.

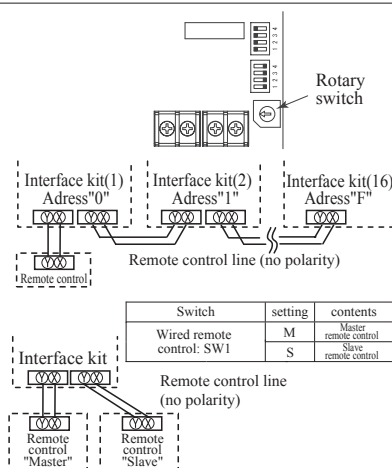
In this case, all units connected with a single wired remote control will operate under the same mode and same setting temperature.

① Connect all the interface with 2 cores cables of wired remote control line.

② Set the address of indoor unit for remote control communication from "0" to "F" with the rotary switch SW1 on the interface PCB.

③ After turning the power ON, the address of indoor unit can be displayed by pressing [AIR CON No.] button on the wired remote control.

Make sure all indoor units connected are displayed in order by pressing [▲] or [▼] button.



Master/Slave setting wired when 2 of wired remote control are used

Maximum two wired remote control can be connected to one indoor unit (or one group of indoor units)

① Set the DIP switch SW1 on the wired remote control to "Slave" for the slave remote control. (Factory setting : Master)

○ Caution : Remote control sensor of the slave remote control is invalid.

● When using the wireless remote control in parallel with the wired remote control;

Since temperature setting range of wired remote control is different from that of wireless remote control, please adjust the setting range of wired remote control to be the same setting range of wireless remote control by following procedure. (The set temperature may not be displayed correctly on the wireless remote control, unless change of temperature setting range is done.)

Changing procedure of temperature setting range is as follows.

How to set upper and lower limit of temperature setting range

1. Stop the air-conditioner, and press [○] (SET) and [▽] (MODE) button at the same time for 3 seconds or more.

The indication changes to "FUNCTION SET ▼"

2. Press [▽] button once, and change to the "TEMP RANGE ▲" indication.

3. Press [○] (SET) button, and enter the temperature range setting mode.

4. Confirm that the "Upper limit ▼" is shown on the display.

5. Press [○] (SET) button to fix.

6. ① Indication: "UPPER 28°C" → "UPPER 30°C" (blinking)

② Select the upper limit value 30°C with temperature setting button [▲]. "UPPER 30°C" (blinking)

③ Press [○] (SET) button to fix. "UPPER 30°C" (Displayed for two seconds)

After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT ▼".

7. Press [▽] button once, "LOWER LIMIT ▲" is selected, press [○] (SET) button to fix.

① Indication: "LOWER 20°C" → "LOWER 18°C" (blinking)

② Select the lower limit value 18°C with temperature setting button [▼]. "LOWER 18°C" (blinking)

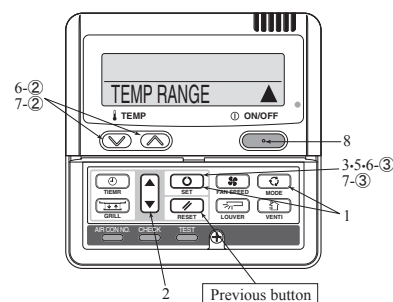
③ Press [○] (SET) button to fix. "LOWER 18°C" (Displayed for two seconds)

After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT ▼"

8. Press [ON/OFF] button to finish.

Temperature setting range

Mode	Temperature setting range
Cooling, Heating, Dry, Auto	18-30°C



- It is possible to quit in the middle by pressing [ON/OFF] button, but the change of setting is incomplete.
- During setting, if pressing [RESET] button, it returns to the previous screen.