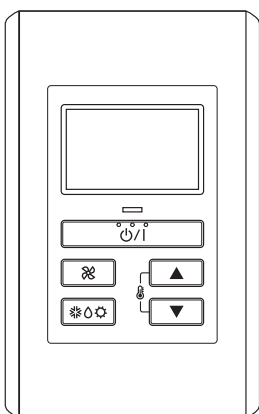


# AIR CONDITIONER SIMPLE REMOTE CONTROLLER (WIRED TYPE) UTY-RSNYM



## INSTALLATION MANUAL

For authorized service personnel only.

English

## INSTALLATIONSANLEITUNG

Nur für autorisiertes Personal.

Deutsch

## MANUEL D'INSTALLATION

Pour le personnel agréé uniquement.

Français

## MANUAL DE INSTALACIÓN

Solo para personal autorizado.

Español

## MANUALE D'INSTALLAZIONE

Ad uso esclusivo del personale autorizzato.

Italiano

## ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ

Για εξουσιοδοτημένο προσωπικό σέρβις.

Ελληνικά

## MANUAL DE INSTALAÇÃO

Apenas para técnicos autorizados.

Português

## РУКОВОДСТВО ПО УСТАНОВКЕ

Для уполномоченного персонала.

Русский

## MONTAJ KILAVUZU

Yetkili servis personeli içindir.

Türkçe

## 安裝說明書

只限授權服務人員。

中國語

# INSTALLATION MANUAL

## SIMPLE REMOTE CONTROLLER

9371068114-04

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## 1. SAFETY PRECAUTIONS

Let the customer keep this installation manual because it is needed when the air conditioner or remote controller is serviced or moved.

### WARNING

This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.

- For the air conditioner to operate satisfactorily, install it as outlined in this installation manual.
- Installation work must be performed in accordance with national wiring standards by authorized personnel only.
- Do not turn on the power until all the installation work is complete.



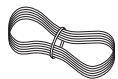

### CAUTION





This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user or damage to property.

- Do not wire the remote controller cable and the bus wire together with or parallel to the connection cables, transmission cables, and power supply cables, of the indoor and outdoor units. It may cause erroneous operation.
- When installing the bus wire near a source of electromagnetic waves, use shield wire.
- Do not set the DIP switches, either on the air conditioner or the remote controller, in any way other than indicated in this sheet or the manual that is supplied with the air conditioners. Doing so may result in an accident.

## 2. ACCESSORIES

The following installation parts are supplied. Use them as required.

Name and Shape	Q'ty	Application
Installation manual 	1	This manual
Operating manual 	1	Instruction book for operation
Remote controller cable 	1	For connecting the remote controller
Connecting cable (*1) 	1	For connecting the remote controller cable to the wall mounted type indoor unit

Name and Shape	Q'ty	Application
Screw (M4 x 16mm) 	2	For installing the remote controller
Binder 	1	For remote controller and remote controller cable binding
Tapping screw (M4 x 14mm) (*1) 	1	For installing the remote controller cable to the indoor unit
Cable clammer (*1) 	1	For installing the remote controller cable to the indoor unit

(\*1) Use only if the remote controller cable must be modified for the indoor unit model.

## 3. ELECTRICAL REQUIREMENT

When connecting the remote controller use the following wiring.

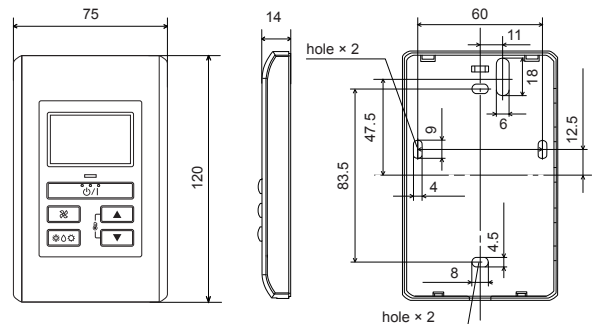
Cable	Cable size	Remarks
Remote controller cable	0.33 mm <sup>2</sup>	Sheathed PVC cable, Polar 3 core

\* We recommend that you purchase our service parts for the remote controller cable. Contact service personnel to purchase this.

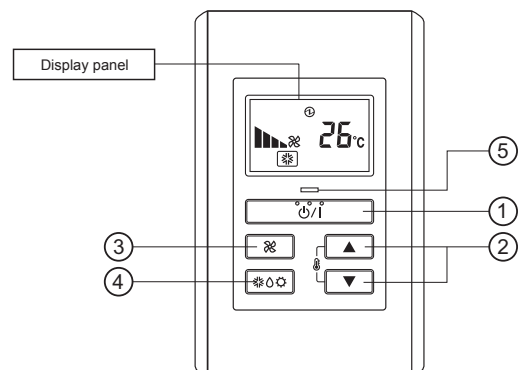
## 4. SELECTING AN INSTALLATION LOCATION

### 4.1. Dimensions

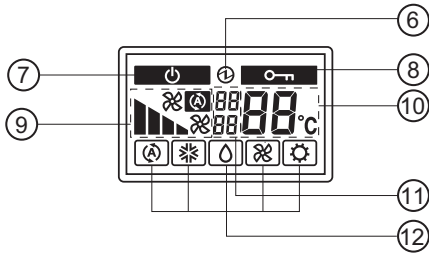
Unit : mm



### 4.2. Name of parts



• Display panel



- ① “/|” (Start/Stop Button)
- ② “” , “” (Set Temperature Button)
- ③ “” (Fan Control Button)
- ④ “” (Operation Mode Button)
- ⑤ Operation Lamp Display
- ⑥ Electric energy Display
- ⑦ Standby Display
- ⑧ Operation Lock Display
- ⑨ Fan Speed Display
- ⑩ Temperature Display
- ⑪ Error Display
- ⑫ Operation Mode Display

## 5. INSTALLING THE REMOTE CONTROLLER

### 5.1. Installation

#### CAUTION

- Do not touch the remote controller PC board and PC board parts directly with your hands.

Insert the end of a flat blade screwdriver at the arrow parts of the groove at the side of the remote controller case and remove the remote controller case top by turning the screwdriver.

Fig. 1

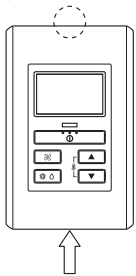


Fig. 2

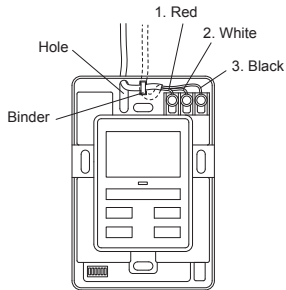
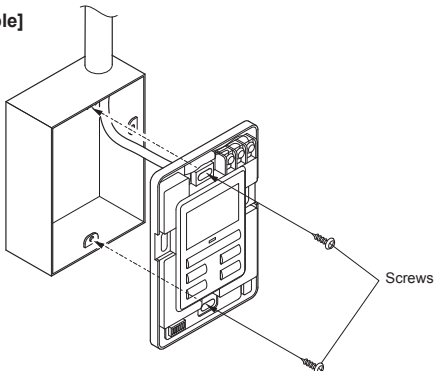


Fig. 3 [Example]



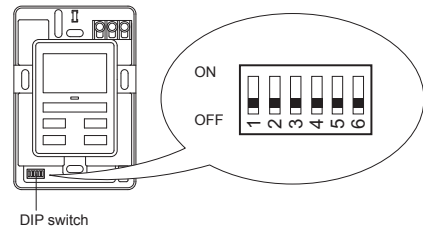
- (1) When remote controller cable exposed
  - 1) Use a tool to cut away the thin area on the upper center of the front case (indicated by in Fig. 1).
  - 2) Connect the remote controller cable to the remote controller terminal board specified in Fig. 2.
  - 3) Clamp the remote controller cable sheath with the binder as shown in Fig. 2.
  - 4) Cut off the excess binder.
  - 5) Install the rear case to the wall, etc., with 2 screws. (Fig. 3)
- (2) When remote controller cable embedded
  - 1) Embed the remote controller cable and box.
  - 2) Pass the remote controller cable through the hole in the rear case and connect the remote controller cable to the remote controller terminal board specified in Fig. 2.
  - 3) Clamp the remote controller cable sheath with the binder as shown in Fig. 2.
  - 4) Cut off the excess binder.
  - 5) Install the rear case to the wall, box, etc., with 2 screws. (Fig. 3)

### 5.2. Setting the DIP switch

#### SETTING THE DIP SWITCHES

Set the remote controller DIP switches. (Fig. 4)

Fig. 4 [Example]



	NO.	SW state		Detail
		OFF	ON	
DIP switch	1	★		Cannot be used.
	2	★		Dual remote controller setting * Refer to 2. Dual remote control in 6 INSTALLATION METHODS.
	3	★		Cannot be used.
	4	★		Cannot be used.
	5	★		Cannot be used.
	6	★		Cannot be used.

(★ Factory setting)

### 5.3. Connection of Remote Controller Cable

#### CAUTION

- When connecting the remote controller cable (cord) to the wall mounted type indoor unit, do not connect it to the outdoor unit or the indoor unit power terminal block. It may cause a failure.

There are 2 methods to connect the remote controller cable to the indoor unit. One is the connection using contained connecting cable, and the other is the connection the remote controller cable is connected to the exclusive terminal block of the indoor unit.

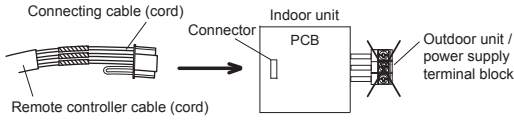
Exclusive terminal block for remote controller connection method is different depending on each model. Modify the remote controller cable as per below description and connect it.

(For the details, refer to the installation manual of the indoor unit to be used.)

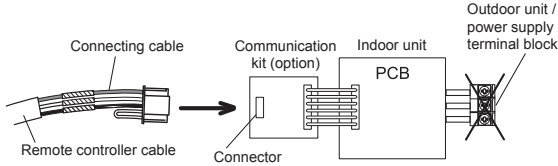
### 5.3.1. When connecting to the connector

Connect the remote controller cable to the connecting cable, and insert it to the connector.

Pattern 1



Pattern 2



Modify the cable as per below methods.

- (1) Use a tool to cut off the terminal on the end of the remote controller cable, and then remove the insulation from the cut end of the cable as shown in Fig. 1.
- (2) Connect the remote controller cable and connecting cable as shown in Fig. 2.
- (3) Be sure to insulate the connection between the cables.

Fig. 1

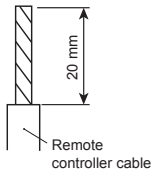
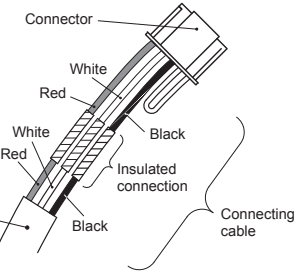
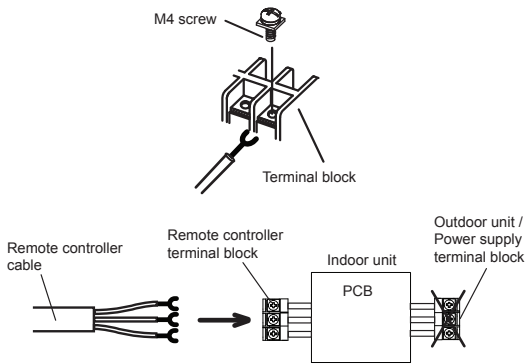


Fig. 2



### 5.3.2. When connecting to exclusive terminal block

Connect the end of remote controller cable (cord) directly to the exclusive terminal block.



※ It may be failed if it is connected to the outdoor unit or the terminal block for power supply.

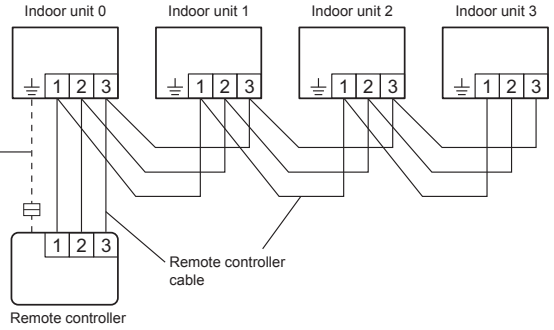
## 6. INSTALLATION METHODS

### 6.1. Group control

- A number of indoor units can be operated at the same time using a single remote controller.
- Depending on the model, some indoor units cannot be connected for group control. (Group control is available for the duct type, the cassette type and the ceiling type indoor unit.)
- Some functions may become unusable, depending on the combination of the indoor units that are connected in a group.

(1) Wiring method (indoor unit to remote controller)

EXAMPLE: Single Type



When there is a ground cable.

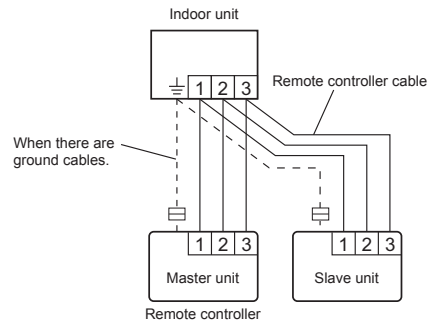
(2) Indoor unit address setting

Set each indoor unit address using the DIP switch of each indoor unit. (Refer to the installation manual for the indoor unit.)

### 6.2. Dual remote control

- Depending on the model, some indoor units cannot be connected for dual remote controllers. (Group control is available for the duct type, the cassette type and the ceiling type indoor unit.)
- 2 separate remote controllers can be used to operate the indoor units.

(1) Wiring method (indoor unit to remote controller)



(2) Remote controller DIP switch 1 setting

Set the remote controller DIP switch 1-No. 2 according to the following table.

Number of remote controllers	Master unit	Slave unit
	DIP Switch 1-No. 2	DIP Switch 1-No. 2
1 (Normal)	OFF	–
2 (Dual)	OFF	ON

## 7. TURNING ON THE POWER

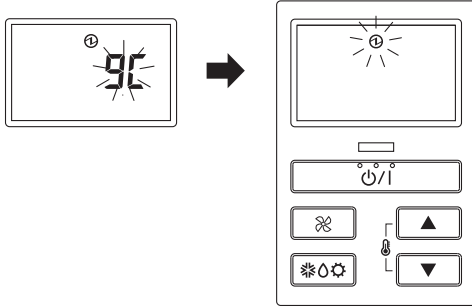
### CAUTION

- Recheck the wiring. Incorrect wiring will cause trouble.

- (1) Check the remote controller wiring and DIP switch settings.
- (2) Check the indoor and outdoor unit wiring and circuit board switch settings, and then turn on the indoor and outdoor units.
- (3) If the power source is connected correctly, the ① mark will be displayed in the center of the remote controller display.

After "9L" has flashed on the set temperature display for several seconds, the ① mark will be displayed in the center of the remote controller display.

- \* For the wiring and circuit board switch settings method, refer to the installation manual for the indoor unit and outdoor unit.



## 8. FUNCTION SETTING

This procedure changes the function settings used to control the indoor unit according to the installation conditions.

Incorrect settings can cause the indoor unit to malfunction.

Perform the "FUNCTION SETTING" according to the installation conditions using the remote controller.

- Refer to the indoor unit installation manual for details on the function numbers and setting numbers.
- Prepare for setting of indoor unit referring to installation manual of indoor unit before start of functional setting.

### Start of Function setting mode

- (1) Press the "▲" button, "▼" button and "⊗" button for more than 5 seconds simultaneously. Then shift to Function setting mode.



Function setting mode initial display

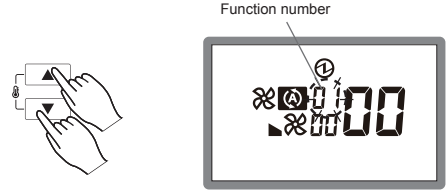
- (2) Press the "▲" button or "▼" button and select the Indoor unit number. Then press the "⊗" button.



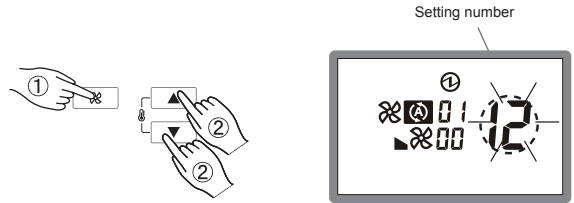
Ex. When Indoor unit number "00" is selected.

### Function number and setting number setting

- (3) "Function number" display blinks. Then display Number by pressing the "▲" button or "▼" button.

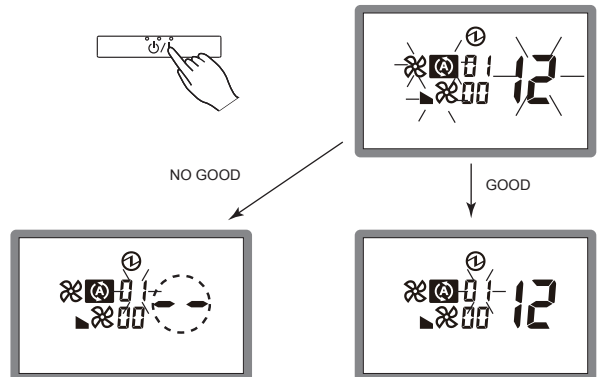


- (4) When the "Setting number" blinks by pressing the "⊗" button set the Setting number by pressing the "▲" button or "▼" button.



Ex. When Setting number "12" is selected.

- (5) Fix the setting by pressing the "⏻" button. (Data is transferred to the indoor unit.)

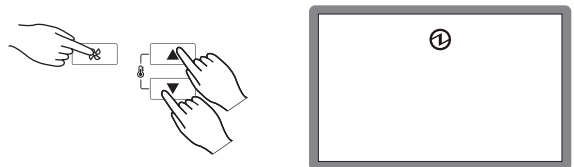


When set properly in the indoor unit.

- (– is displayed,) if not set the indoor unit.
- Set again as per procedures 3-5 above.

### Completion of address setting mode

- (6) Function setting mode is released and returns to normal display if the "▲" button, "▼" button and "⊗" button are pressed for more than 5 seconds simultaneously.



Normal mode display

- \* Function setting mode is released automatically if no key is pressed for 60 seconds even the above buttons are not pressed. (Switch to Function setting mode as per procedure 1 above. It is automatically released when Function setting)

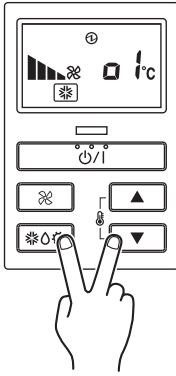
- (7) After completing the FUNCTION SETTING, be sure to turn off the power and turn it on again.

### Note:

- Function Setting is available for Master remote controller only.

## 9. TEST OPERATION

- (1) If the operation lamp is on, press the "⏻/|" button to turn it off.
  - (2) Press the "⊗⊙⊚" button and the "⏻" button at the same time for more than 2 seconds to start the test operation.  
The operation lamp will light up and "⊙ 1" will be displayed on the set temperature display.
  - (3) To stop the test operation, press the "⏻/|" button.
- \* The "⏻" button or "⏻" button do not function. However, the other buttons can be used to change the settings.
  - \* Test operation is used for constrained operation of the outdoor unit.



### Note:

- \* When "⊙ 2" is indicated on temperature display, it means under maintenance.  
Indoor unit cannot be operated.

## 10. FILTER LAMP RESET

Some indoor unit models are equipped with a filter lamp in the indoor unit display to indicate when it is time to clean the air filters.

Press the "⊗" button for 2 seconds or more. The indoor unit filter lamp will go off and the filter display will disappear.



## 11. ERROR CODE

If you use a wired remote controller, error codes will appear on the remote controller display.

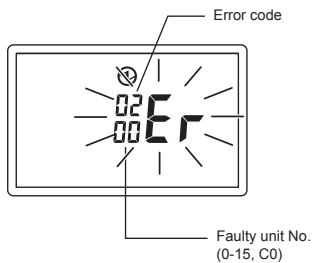
If you use a wireless remote controller, the lamp on the IR receiver unit will output error codes by way of blinking patterns. See the lamp blinking patterns and error codes in the table below. An error display is displayed only during operation.

Error display			Wired remote controller Error code	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(1)	●(1)	◇	11	Serial communication error
●(1)	●(2)	◇	12	Wired remote controller communication error
●(1)	●(5)	◇	15	• Check run unfinished • Setting error of Master unit or Slave unit or Remote controller
●(2)	●(1)	◇	21	Unit number or Refrigerant circuit address setting error [Simultaneous Multi]
●(2)	●(2)	◇	22	Indoor unit capacity error
●(2)	●(3)	◇	23	Combination error
●(2)	●(4)	◇	24	• Connection unit number error (indoor slave unit) [Simultaneous Multi] • Connection unit number error (indoor unit or branch unit) [Flexible Multi]
●(2)	●(7)	◇	27	Master unit, slave unit set-up error [Simultaneous Multi]
●(3)	●(2)	◇	32	Indoor unit PCB model information error
●(3)	●(5)	◇	35	Manual auto switch error
●(4)	●(1)	◇	41	Inlet air temp. sensor error
●(4)	●(2)	◇	42	Indoor unit Heat Ex. Middle temp. sensor error
●(5)	●(1)	◇	51	Indoor unit fan motor error
●(5)	●(3)	◇	53	Drain pump error
●(5)	●(7)	◇	57	Damper error
●(5)	●(15)	◇	5U	Indoor unit error
●(6)	●(2)	◇	62	Outdoor unit main PCB model information error or communication error
●(6)	●(3)	◇	63	Inverter error
●(6)	●(4)	◇	64	Active filter error, PFC circuit error
●(6)	●(5)	◇	65	Trip terminal L error
●(6)	●(10)	◇	6A	Display PCB microcomputers communication error
●(7)	●(1)	◇	71	Discharge temp. sensor error
●(7)	●(2)	◇	72	Compressor temp. sensor error
●(7)	●(3)	◇	73	Outdoor unit Heat Ex. liquid temp. sensor error
●(7)	●(4)	◇	74	Outdoor temp. sensor error
●(7)	●(5)	◇	75	Suction Gas temp. sensor error
●(7)	●(6)	◇	76	• 2-way valve temp. sensor error • 3-way valve temp. sensor error
●(7)	●(7)	◇	77	Heat sink temp. sensor error

Error display			Wired remote controller Error code	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(8)	●(2)	◇	82	• Sub-cool Heat Ex. gas inlet temp. sensor error • Sub-cool Heat Ex. gas outlet temp. sensor error
●(8)	●(3)	◇	83	Liquid pipe temp. sensor error
●(8)	●(4)	◇	84	Current sensor error
●(8)	●(6)	◇	86	• Discharge pressure sensor error • Suction pressure sensor error • High pressure switch error
●(9)	●(4)	◇	94	Trip detection
●(9)	●(5)	◇	95	Compressor rotor position detection error (permanent stop)
●(9)	●(7)	◇	97	Outdoor unit fan motor error
●(9)	●(9)	◇	99	4-way valve error
●(10)	●(1)	◇	A1	Discharge temp. error
●(10)	●(3)	◇	A3	Compressor temp. error
●(10)	●(4)	◇	A4	High pressure error
●(10)	●(5)	◇	A5	Low pressure error
●(13)	●(2)	◇	J2	Branch boxes error [Flexible Multi]

Display mode ● : 0.5s ON / 0.5s OFF  
 ◇ : 0.1s ON / 0.1s OFF  
 ( ) : Number of flashing

If there is a problem with the air conditioner, "Er" will be displayed.



If "Er" is displayed, immediately contact authorized service personnel.

Do not use the operation below if an error has occurred.

- When 0-15 is indicated on the Faulty unit No., error has occurred at the indoor unit. Refer to the indoor unit installation manual.