

Group Remote Controller (UTB-*D*)

INSTALLATION INSTRUCTION SHEET

(PART NO. 9374707034-03)

For authorized service personnel only.

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SAFETY PRECAUTIONS

- Before using the appliance, read these "SAFETY PRECAUTIONS" thoroughly and operate in the correct way.
- The instructions in this section all relate to safety; be sure to maintain safe operating conditions.

 WARNING	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.	
<ul style="list-style-type: none"> ● For the air conditioner to operate satisfactorily, install it as outlined in this installation instruction sheet. ● Do not turn on the power until all installation work is complete. 	<ul style="list-style-type: none"> ● Installation work must be performed in accordance with national wiring standards by authorized personnel only. 	

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

 CAUTION	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user or damage to property.	
<ul style="list-style-type: none"> ● Do not wire the remote controller cord and the bus wire together with or parallel to the connection cables, transmission cords, and power supply cords of the indoor and outdoor units. It may cause erroneous operation. ● Do not expose the controller directly to water. ● Do not operate the controller with wet hands. ● Do not touch the switches with sharp objects. ● Always turn off the electrical breaker whenever cleaning the controller, the air conditioner or the air filter. 	<ul style="list-style-type: none"> ● Check the condition of the installation stand for damage. ● Ensure that any electronic equipment is at least one meter away from the controller. ● Avoid installing the controller near a fireplace or other heating apparatus. ● When installing the controller, take precautions to prevent access by infants. ● Do not use inflammable gases near the controller. 	

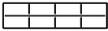
English

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STANDARD PARTS

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

Name and Shape	Q'ty	Application
Group remote controller 	1	Use for air conditioner operation
Label 	4	Use this for writing the names of the indoor units that have been registered.

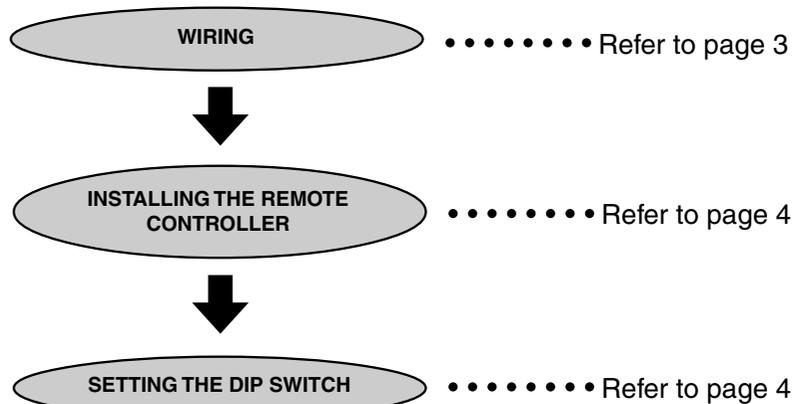
Name and Shape	Q'ty	Application
Tapping screw (M4 × 16 mm) 	2	For installing the remote controller
Binder 	1	For remote controller and remote controller cord binding

* Use of this product requires a special convertor and connection cable. These are provided as service parts, so please contact authorized service personnel.

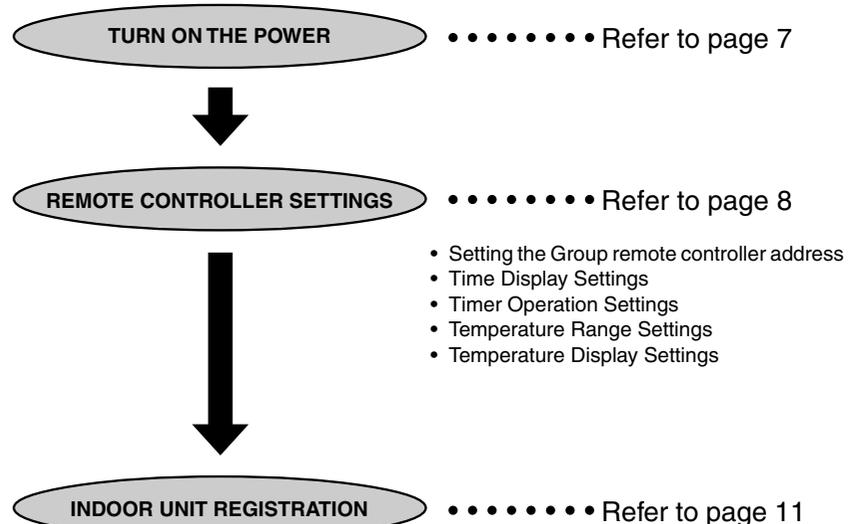
FLOW OF INSTALLATION

The following is the flow of the installation of Group remote controller.

• INSTALLATION



• SETTING



3. INSTALLING THE REMOTE CONTROLLER

⚠ CAUTION

- Do not touch the group remote controller Circuit board and Circuit board parts directly with your hands.
- When working with the wiring, be careful not to scratch or damage the wires.

Open the operation panel on the front of the remote controller, remove the two screws indicated in the right figure and then, remove the front case of the remote controller.

i NOTES

When installing the remote controller, remove the connector from the front case. The wires may break if the connector is not removed and the front case hangs down. When installing the front case, connect the connector to the front case.

- When remote controller cord exposed
 - 1) Make two horizontal or two vertical holes in the mounting surface (wall, etc.) to install the remote controller. (Fig. 2)
 - 2) Use a tool to cut away the thin area on the upper center of the front case (indicated by ○ in Fig. 1).
 - 3) Connect the remote controller cord to the remote controller terminal board specified in Fig. 2.
 - 4) Wrap the connector and remote controller cords with vinyl tape or some other type of insulation as shown in Fig. 2.
 - 5) Clamp the remote controller cord with the binder as shown in Fig. 2.
 - 6) Cut off the excess binder.
 - 7) Install the rear case to the wall, etc., with two screws (ø4 × 16). (Fig. 3)

i NOTES

Step 4) will be noticed by customers, so do it with particular care.

- When remote controller cord embedded
 - 1) Embed the remote controller cord and box.
 - 2) Pass the remote controller cord through the hole in the rear case and connect the remote controller cord to the remote controller terminal board specified in Fig. 2.
 - 3) Wrap the connector and remote controller cords with vinyl tape or some other type of insulation as shown in Fig. 2.
 - 4) Clamp the remote controller cord sheath with the binder as shown in Fig. 2.
 - 5) Cut off the excess binder.
 - 6) Install the rear case to the wall, box, etc., with two screws (ø4 × 16). Fix the two screws in either horizontal or vertical position. (Fig. 3)

Fig. 1

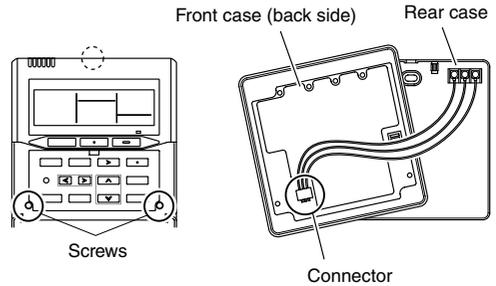


Fig. 2

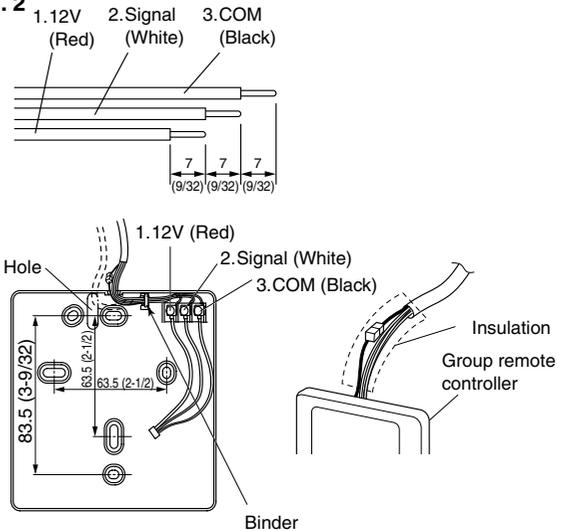
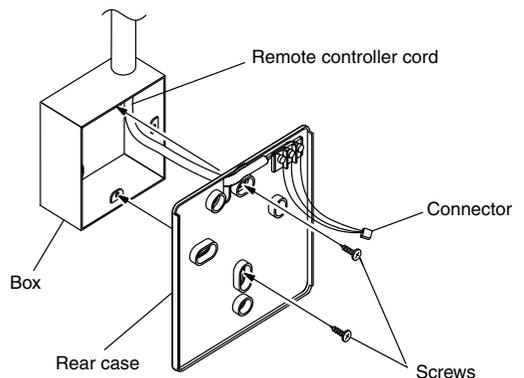


Fig. 3 [Example]



4. SETTING THE DIP SWITCH

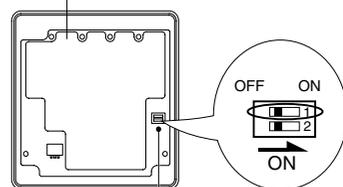
Set DIP switch 1 to ON to enable the memory backup.

- Memory backup setting
If there is a power failure when the memory backup is enabled, the settings stored in the memory will be saved.

	NO.	SW state	
		OFF	ON
DIP-Switch	1	★ Invalidity	Validity
	2	★ Fixed at OFF	

(★ Factory setting)

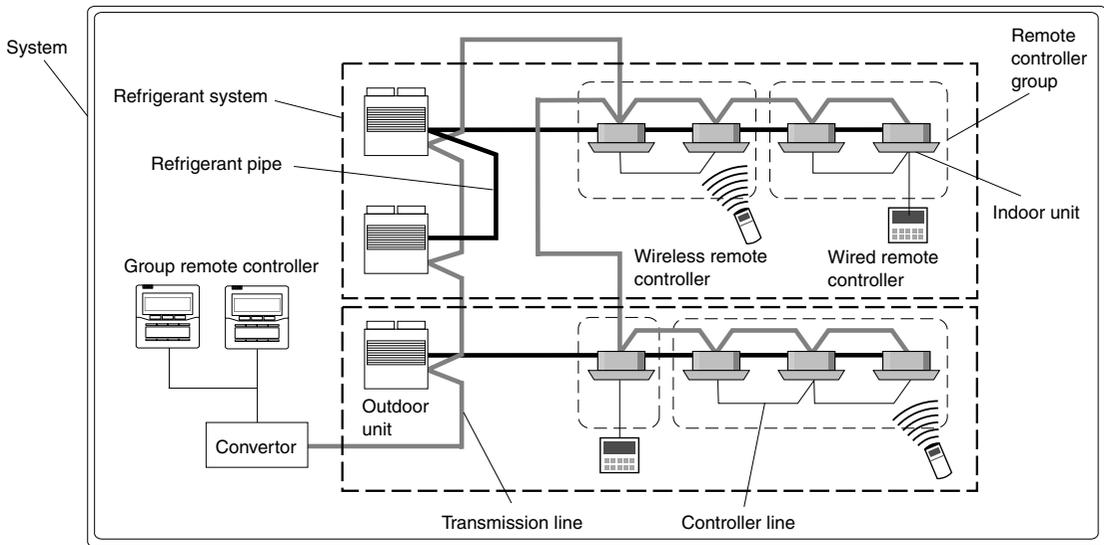
Front case (back side)



DIP Switch

SETTING

EXPLANATION OF TERMS



Controller related items

- **System:**
This is all of the indoor units, outdoor units and controller units connected by the same transmission line.
- **Refrigerant system:** [Not for J-series*]
This is a system composed of indoor and outdoor units connected by the same refrigerant pipe.
- **Remote Controller group:** [Not for J-series*]
This is the smallest unit controlled by group remote controller.
This is a group of indoor units that have been connected with one controller line.

Indoor / Outdoor unit setting (on the Circuit board)

- **Refrigerant circuit address (0~99):** [Not used for J-series*]
This is the ID individually assigned to each refrigerant system and is used for control.
- **Indoor unit address (0~63):** [J-series* uses 0-7]
This is the ID individually assigned to each indoor unit and is used for control.
- **Remote controller address (0~15):** [Not used for J-series*]
This is the ID individually assigned to the indoor units forming each remote controller group and is used for control.

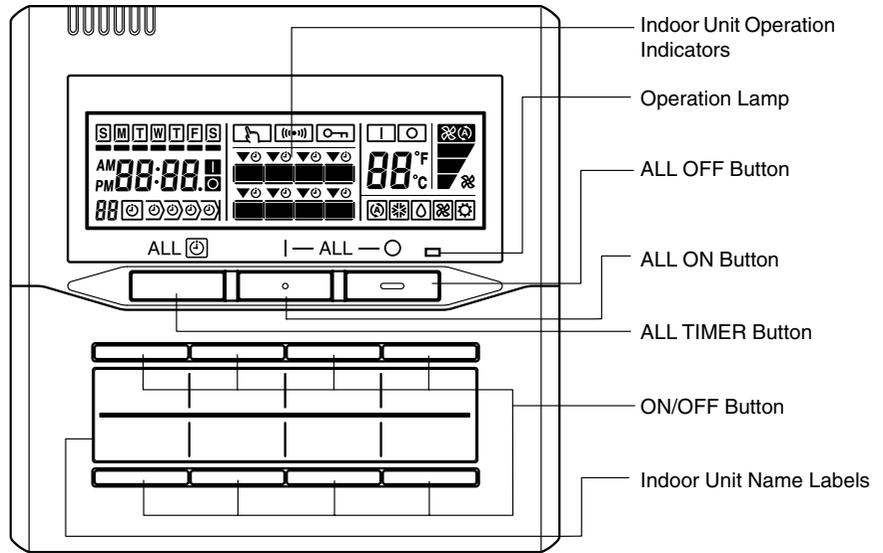
Group remote controller setting

- **Group remote controller address (0~3):** [J-series* uses "0" only]
This is the ID individually assigned to each group remote controller and is used for control.

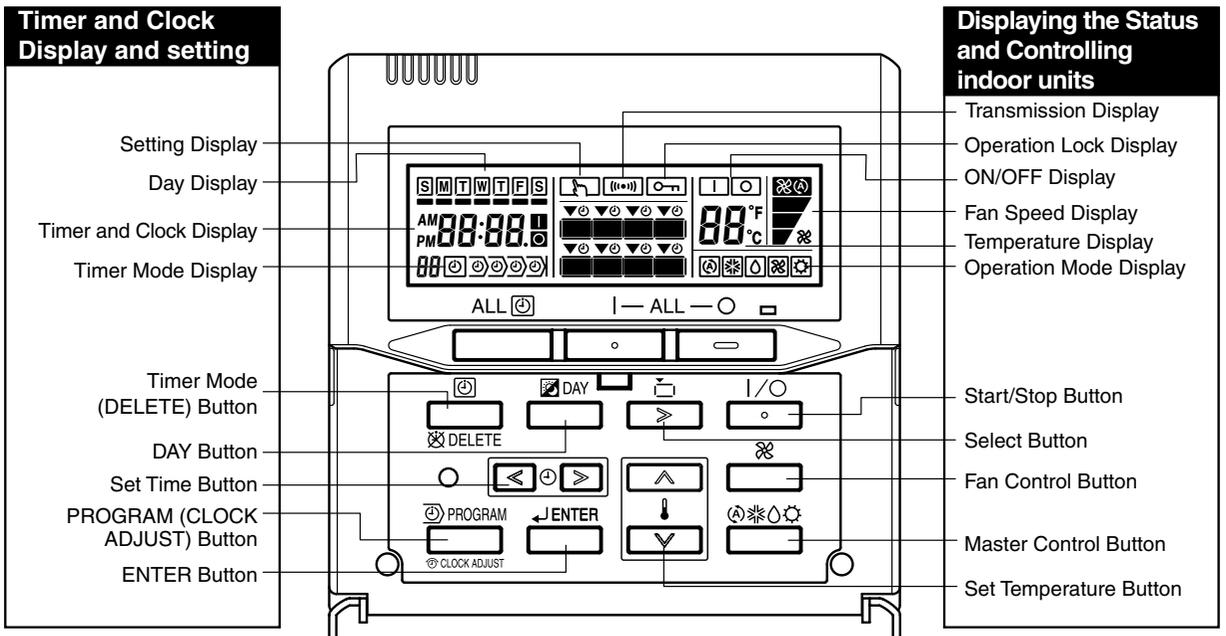
* It is a J-series model when the model name of the indoor unit ends in "R."

NAME OF PARTS

● With cover closed



● With cover open



TURN ON THE POWER

Turn on the power

Once the installation and wiring has been completed, use the following procedure to turn on the power.

1. Turn on the power for all connected indoor units.
2. Turn on the power for all connected outdoor units.
3. Turn on the power for all connected convertor of group remote controllers.

(For J-series

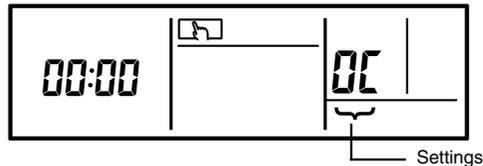
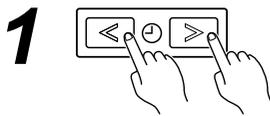
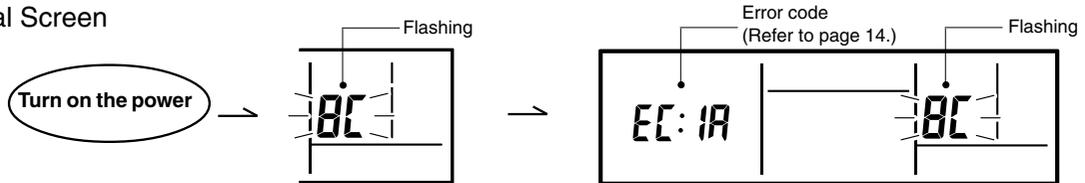
1. Turn on the power for all connected indoor units and outdoor units.
2. Turn on the power for all connected convertor of group remote controllers.

Wait for one minute or more after turning on the power before performing the next section.

SETTINGS

Switching to the Settings Screen

Initial Screen



Hold down the Set Time buttons \ll and \gg simultaneously for two seconds or more to start the Settings.



Press the Set Temperature button to select the item to be set.

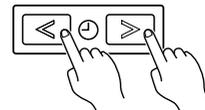
Settings **BC**: REMOTE CONTROLLER SETTINGS → Page 8

IC: INDOOR UNIT REGISTRATION → Page 11

2A, 2C, E5, 00, 01, DA: Forbidden 1-6

* Skip the item if the indoor units are not registered.

● To complete Settings



Hold down the Set Time buttons \ll and \gg simultaneously for two seconds or more to complete the settings.

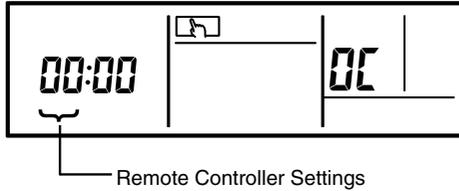
i NOTES

When there is a display other than the initial screen, it is possible that an error has occurred. Please consult authorized service personnel in such cases.

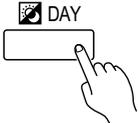
RC REMOTE CONTROLLER SETTINGS

Remote Controller Settings

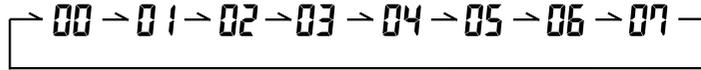
Initial Screen



● To select the setting



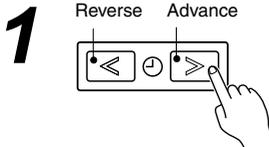
Press the DAY button to select the item to be set.



Settings	00	: Setting the Group remote controller address → Page 8
	01, 06, 07	: Forbidden → Page 9
	02	: Time Display Settings → Page 9
	03	: Timer Operation Settings → Page 9
	04	: Temperature Range Settings → Page 10
	05	: Temperature Display Settings → Page 10

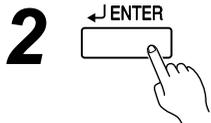
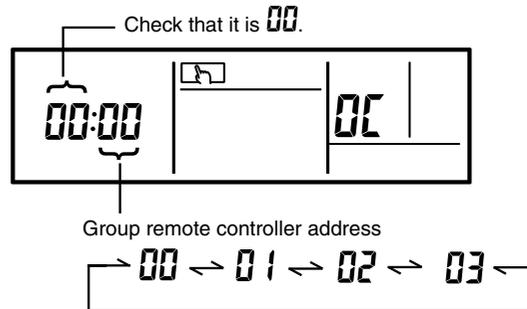
00 Setting the Group remote controller address

To set the Group remote controller address

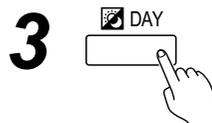


Press the Set Time buttons to set the Group remote controller address.

- * For each convertor, make the settings in order starting with "0" according to the number of Group remote controllers connected.
- * Set to "0" for the J-series.



Press the ENTER button.
Check that  and RC flash for two seconds.

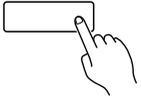


Press the DAY button to move to "01 Forbidden."

01,06,07 Forbidden

To move to the following settings

DAY

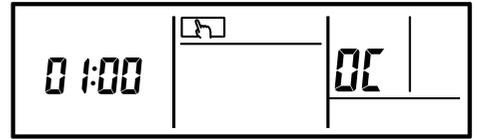


● 01 Forbidden

Press the DAY button to move to “02 Time Display Settings.”

● 06, 07 Forbidden

Press the DAY button to move to “00 Setting the Group remote controller address.”

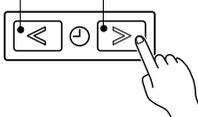


02 Time Display Settings (This switches the time display.)

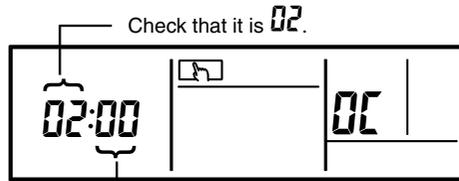
To switch the time display

1

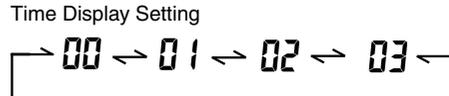
Decrement Increment



Press the Set Time buttons to set the time display.



Check that it is 02.



00 or 03 : 24 Hour Clock Display

0:00 11:59 -> 12:00 23:59 -> 0:00

01 : 12 Hour Clock Display 1

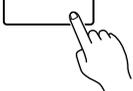
AM 12:00 AM 11:59 -> PM 12:00 PM 11:59 -> AM 12:00

02 : 12 Hour Clock Display 2

AM 0:00 AM 11:59 -> PM 0:00 PM 11:59 -> AM 0:00

2

ENTER

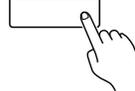


Press the ENTER button.

Check that **[00]** and **0C** flash for two seconds.

3

DAY



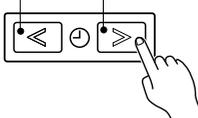
Press the DAY button to move to “03 Timer Operation Settings.”

03 Timer Operation Settings (This enables/disables the weekly timer.)

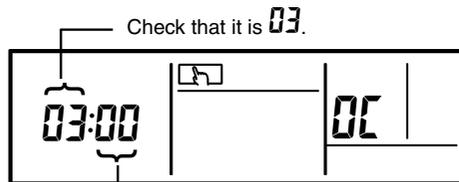
To enable/disable timer operation

1

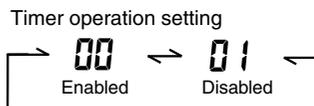
Decrement Increment



Press the Set Time buttons to set the timer operation setting.

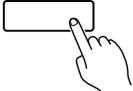


Check that it is 03.



2

ENTER

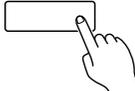


Press the ENTER button.

Check that **[00]** and **0C** flash for two seconds.

3

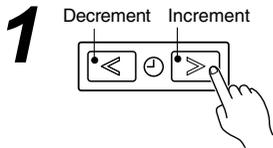
DAY



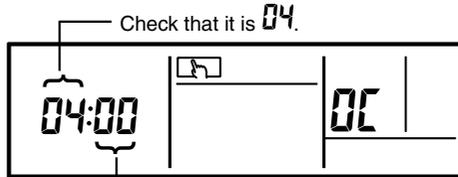
Press the DAY button to move to “04 Temperature Range Settings.”

04 Temperature Range Settings (This changes the temperature range.)

To set the temperature range



Press the Set Time buttons to set the temperature range.



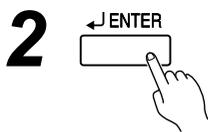
Temperature range setting



- The temperature range set for heating operation is different.

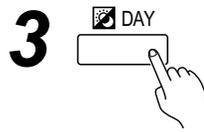
00 : 10 °C – 30 °C (48 °F – 88 °F)

01 : 16 °C – 30 °C (60 °F – 88 °F)



Press the ENTER button.

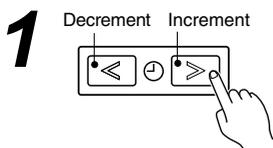
Check that and 0C flash for two seconds.



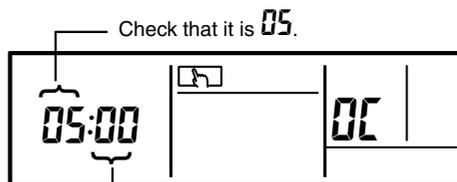
Press the DAY button to move to “05 Temperature Display Settings.”

05 Temperature Display Settings (This switches the display between Celsius and Fahrenheit.)

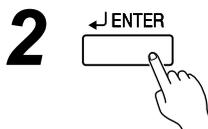
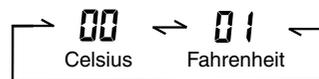
To switch the temperature display



Press the Set Time buttons to set the temperature display.

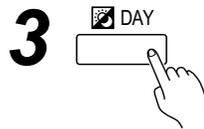


Temperature display setting



Press the ENTER button.

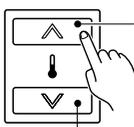
Check that and 0C flash for two seconds.



Press the DAY button twice to move to “00 Setting the Group remote controller address.”

Moving to “ Indoor Unit Registration”

To move to indoor unit registration



Pressing once moves to indoor unit registration

Pressing seven times moves to indoor unit registration

Press the Set Temperature button once or press the Set Temperature button seven times to move to indoor unit registration.

INDOOR UNIT REGISTRATION

- A maximum of 8 remote controller groups can be registered for a Group remote controller.
- Remote controller groups in 2 different refrigerant systems that are connected to a single convertor can be registered.
- The remote controller groups registered can be monitored and controlled.
- When registering indoor units to each of the buttons, consult the customer.

Indoor unit registration screen

Initial Screen
See EXPLANATION OF TERMS on page 5 for explanations of each address.

Indoor Unit Registration Methods

- Manual registration
- Automatic registration (J-series only)

2 Refrigerant circuit address (Not shown with J-series)

1 Registration position

3 Indoor unit address

4 Remote controller address (Not shown with J-series)

Manual Registration

To register indoor units manually

1 ● Registration position selection

Press the Select button to select the position for registering the indoor unit

2 ● Refrigerant circuit address selection (Not used for J-series)

Press the DAY button to select the refrigerant circuit address for the indoor unit being registered.

- Hold down a Set Time button to scroll through the addresses quickly.

3 ● Indoor unit address selection

When a remote controller group made up of a single indoor unit is registered, select the indoor unit address.

Decrement Increment

For J-series

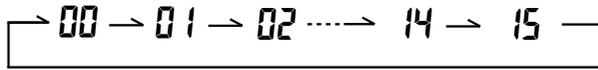
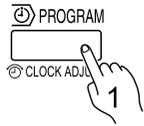
Press the Set Time buttons to select the indoor unit address for the indoor unit being registered.

- Hold down a Set Time button to scroll through the addresses quickly.

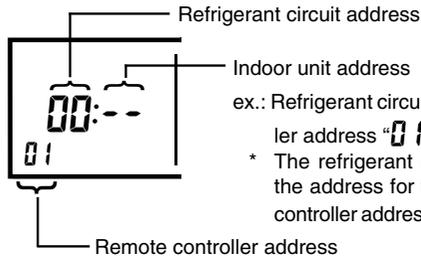
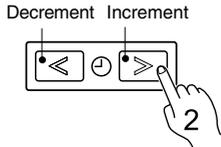
4

When a remote controller group made up of multiple indoor units is registered, the remote controller address and the indoor unit address are selected. **(Not used for J-series)**

● Remote controller address selection



● Indoor unit address selection

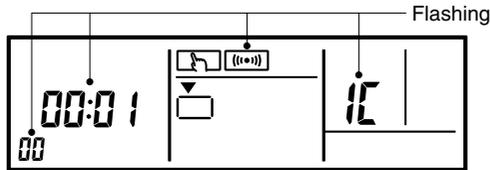
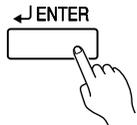


ex.: Refrigerant circuit address "00", remote controller address "01"

* The refrigerant circuit address is the same as the address for the indoor unit set first (remote controller address "00") and cannot be changed.

1. Press the PROGRAM (CLOCK ADJUST) button to select the remote controller address of the indoor unit being registered.
2. Press the Set Time buttons to select the indoor unit address of the indoor units in the same remote controller group that is being registered.
3. Repeat steps 1 and 2 to register all the indoor units in this remote controller group.

5



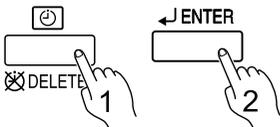
Press the ENTER button to register the selected indoor unit. Check that the refrigerant circuit address, indoor unit address, (00), and IC flash (up to two minutes).

- Press the Timer Mode (DELETE) button during this time to cancel the registration.

6

Repeat steps from **1** to **5** to register other indoor units.

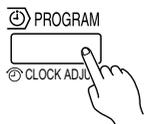
● To delete the registered settings



1. Press the Timer Mode (DELETE) button during steps **2** to **4** to reset the contents of the registration. (If the currently displayed indoor unit is part of a remote controller group with multiple units, only the settings for this indoor unit are reset.)
2. Press the ENTER button to delete the contents of the registration.

Automatic registration (J-series only)

To register indoor units automatically



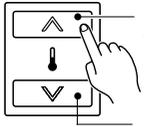
Press the PROGRAM (CLOCK ADJUST) button to start automatic registration. Automatic registration completes in approximately two minutes.

NOTES

- (1) Be careful not to end the settings or switch the indoor unit before pressing the ENTER button. Otherwise, the changed settings will be lost.
- (2) If **EE: id** is displayed during the registration of an indoor unit, the Group remote controller address, refrigerant circuit address, or indoor unit address may be incorrect. Check again.

Moving to “**RC** REMOTE CONTROLLER SETTINGS”

To set the remote controller



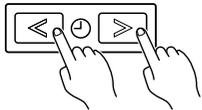
Pressing seven times moves to remote controller settings

Pressing once moves to remote controller settings

Press the Set Temperature button \blacktriangle seven times or press the Set Temperature button \blacktriangledown once to move to remote controller settings.

Completing All of the Settings

To complete Settings



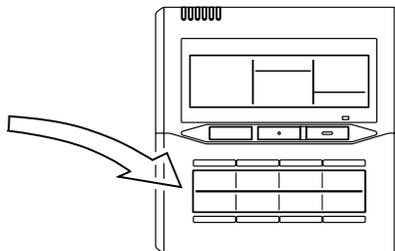
- **When the remote controller settings and indoor unit settings are complete**
Hold down again the Set Time buttons \blacktriangleleft and \blacktriangleright simultaneously for two seconds or more to complete Settings.

FINAL STEP

To apply the label

Conference Room 1	Conference Room 2	Conference Room 3	
Office 1	Office 2	Hall	Drawing Room

Label (Standard parts)
84 × 21 (3-9/32 × 13/16)



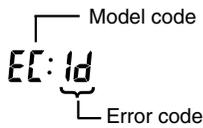
Write the name of the indoor unit or the room where it is installed on the label, and apply it to the Group remote controller.

- Consult the customer about the names to be written on the label.
- Explain to the customer about the indoor units that have been registered to each button.

ERROR CODE

The air conditioning system must be inspected if “E*:**” (error code) appears on the Timer and Clock Display, or the operation lamp is flashing.

The following explains the meaning of each of the error codes.



- Model code
- O** : Outdoor unit
 - I** : Indoor unit
 - C** : Group remote controller
 - A** : Convertor

Error Code	O Outdoor unit error	I Indoor unit error	C A Group remote controller error Convertor error
	00	No error	No error
01	–	–	–
02	Model information abnormal	Model information abnormal	–
03	Microcomputer communication error	Microcomputer communication error	Microcomputer communication error
04	Power supply frequency abnormal	Power supply frequency abnormal	–
05	Power supply phase abnormal	–	Parallel communication error
06	EEPROM access error	EEPROM access error	EEPROM access error
07	EEPROM deletion error	EEPROM deletion error	–
08	–	–	–
09	Compressor 1 error	Room temperature thermistor error	–
0A	Compressor 2 error	Heat exchanger thermistor (middle) error	–
0b	Compressor 3 error	Heat exchanger thermistor (inlet) error	–
0C	–	Heat exchanger thermistor (outlet) error	–
0d	Discharge temperature thermistor 1 error	Blower temperature thermistor error	–
0E	Discharge temperature thermistor 2 error	–	–
0F	Discharge temperature thermistor 3 error	–	–
10	Outdoor temperature thermistor error	–	–
11	Heat exchanger inlet thermistor 1 error	Drain abnormal	–
12	Heat exchanger inlet thermistor 2 error	Room temperature abnormal	–
13	Heat exchanger inlet thermistor 3 error	Indoor unit fan error	–
14	Heat exchanger outlet thermistor 1 error	–	–
15	Heat exchanger outlet thermistor 2 error	–	–
16	Heat exchanger outlet thermistor 3 error	–	–
17	Suction temperature thermistor error	–	–
18	–	Standard wired remote control communication error	–
19	Discharge pressure sensor error	–	–
1A	Liquid pressure sensor error	–	Address setting error
1b	Suction pressure sensor error	–	–
1C	Oil sensor error	–	Connection error
1d	–	–	System error
1E	–	–	–
1F	Transmission error	Transmission error	Transmission error
20	–	–	–
21	Discharge temperature 1 error	–	–
22	Discharge temperature 2 error	–	–
23	Discharge temperature 3 error	–	–
24	High-pressure error	–	–
25	Low-pressure error	–	–
26	–	–	–
27	Oil recovery error	–	–
28	Pump down error	–	–