

# Receiver Kit

# INSTALLATION INSTRUCTION SHEET

(PART NO. 9378782013-02)

For authorized service personnel only.

**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 instruction sheet.
- Installation work must be performed in accordance with national wiring standards by authorized personnel only.
- Do not turn on the power until all installation work is complete.

- Let the customer keep this installation instruction sheet because it is needed when the air conditioner or receiver kit is serviced or moved.

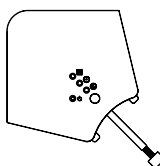



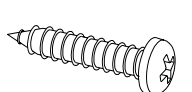
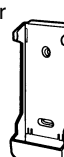
**CAUTION** This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

- Do not wire the receiver kit wire together with or parallel to the connection cables, transmission cords, remote controller cords, bus wire and power supply cords of the indoor and outdoor units. It may cause erroneous operation.
- Do not install the receiver kit wire near a source of electromagnetic waves.

## 1

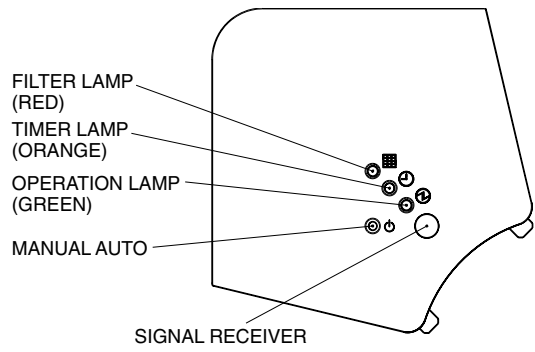
## STANDARD PARTS

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

Name and Shape	Q'ty	Application	Name and Shape	Q'ty	Application
	1	For receiving the signal from the remote control unit		1	Use for air conditioner operation
	1	Prevent receiver kit from falling down		2	For remote control unit
	2	For installing remote control unit holder to wall		1	Use as remote control unit holder

## 2

## FUNCTIONS

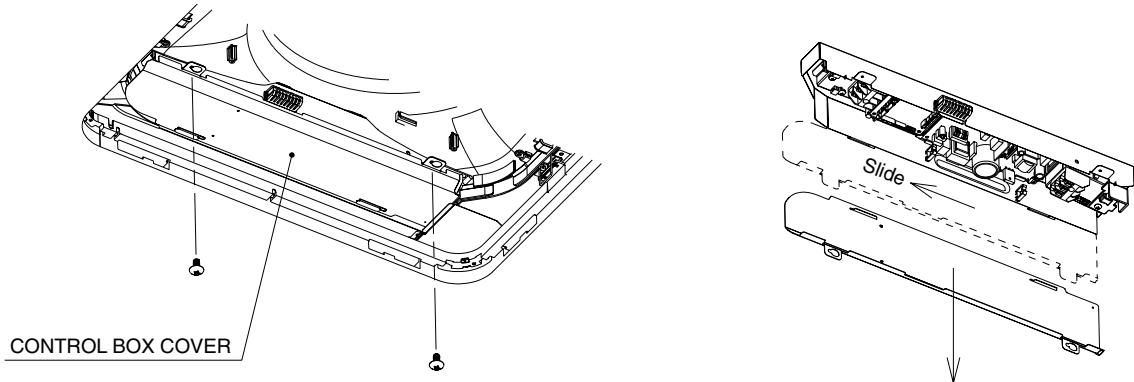


## 3

## INSTALLING THE RECEIVER KIT

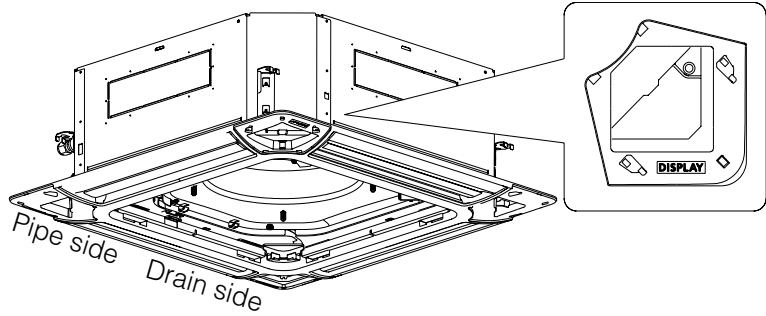
### 1. REMOVING THE CONTROL BOX COVER

- Remove the screws (2 places)
- Slide the CONTROL BOX COVER in the direction of the arrow.
- Remove the CONTROL BOX COVER.



### 2. INSTALLING THE RECEIVER UNIT

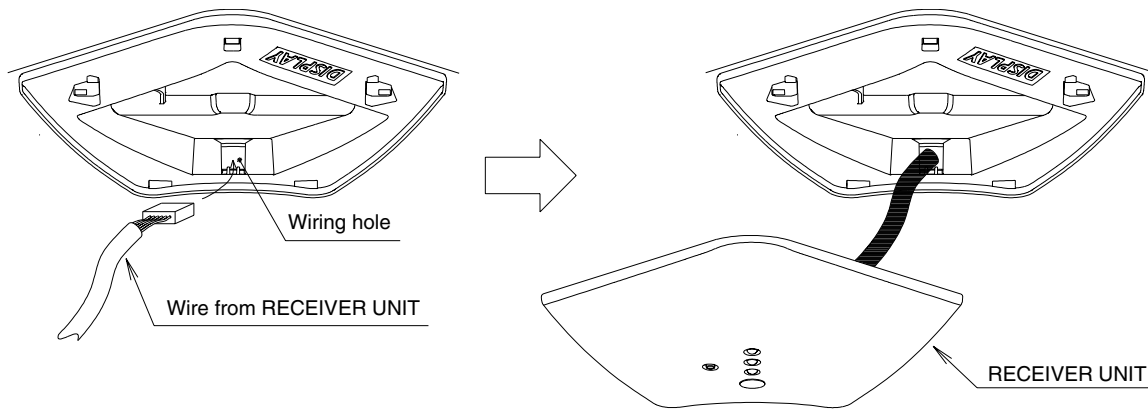
- Mount the corner (figure to the drainpipe) of the decoration panel that has the "DISPLAY" mark onto the RECEIVER UNIT.



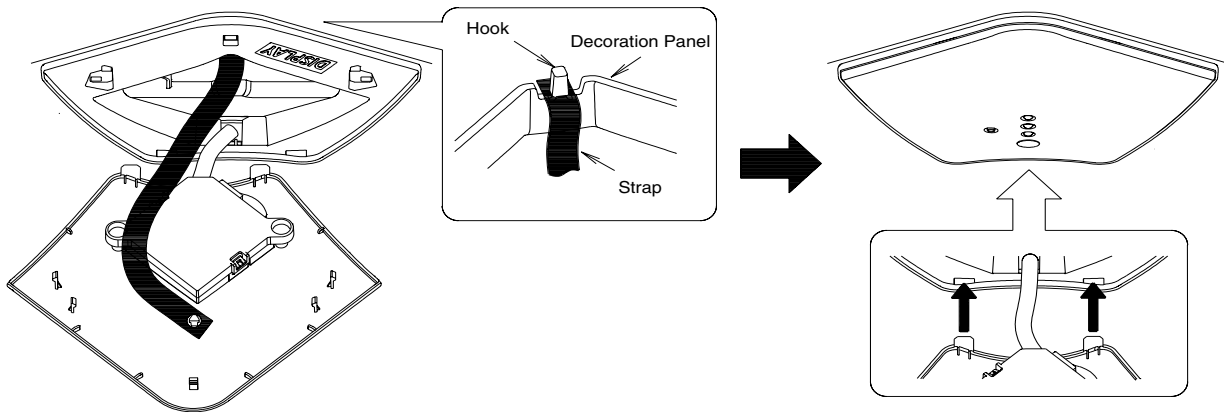
### CAUTION

This corner must be mounted onto the RECEIVER UNIT.

- Insert the wire from the RECEIVER UNIT into the wiring hole as shown in the figure below and pull it into the Decoration panel.

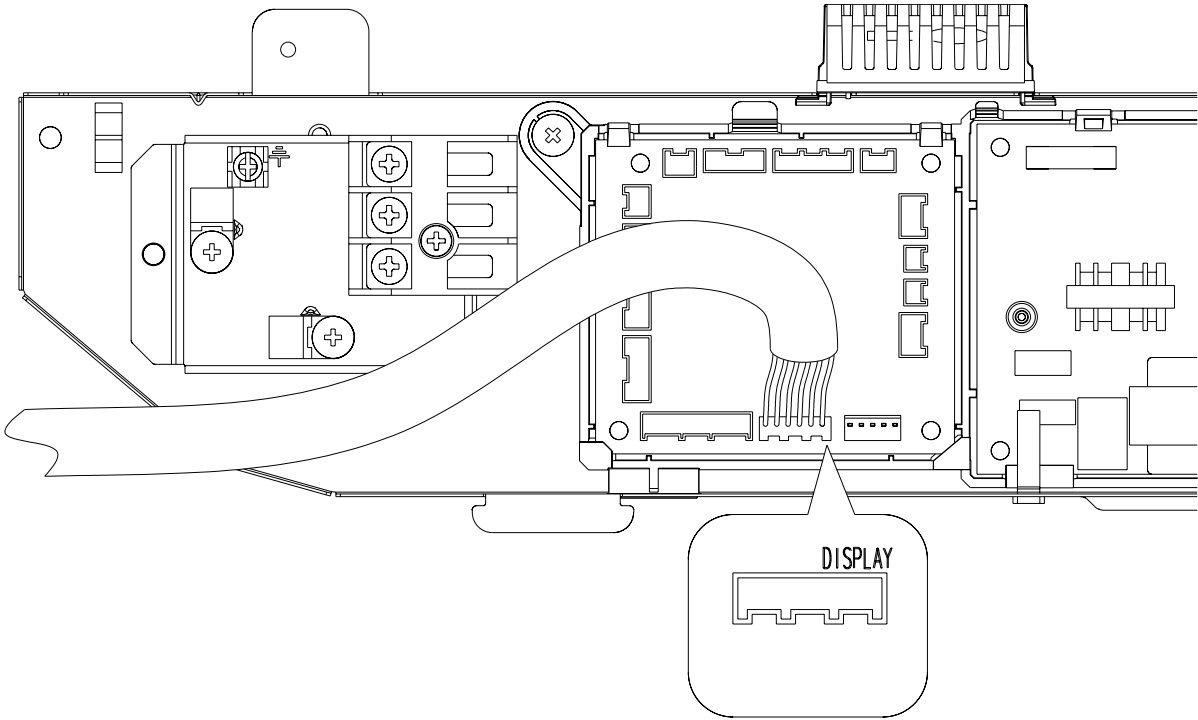


- Hang the STRAP on the hook of the Decoration panel. After that, mount the RECEIVER UNIT onto the Decoration panel.

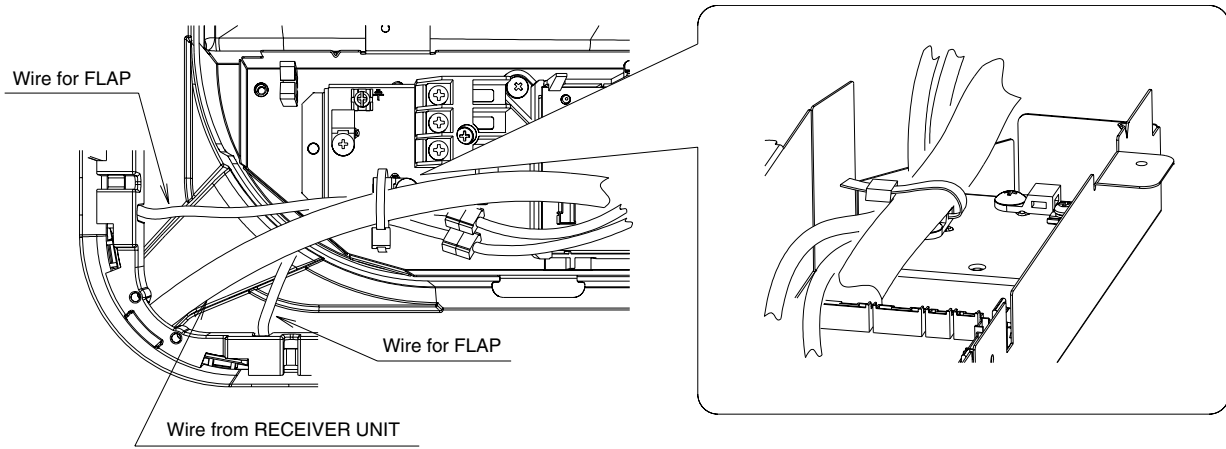


### 3. WIRING

- Connect the connector to the board in the CONTROL BOX.



- Bundle the FLAP wires (2) to the RECEIVER UNIT wire as shown in the figure below.



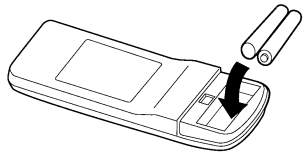
### 4. INSTALLING THE CONTROL BOX COVER

- Secure the CONTROL BOX COVER in the procedure that is reverse to the steps in "1. REMOVING THE CONTROL BOX COVER".

- Turn on the breaker.
- Make sure that the operation lamp and timer lamp are slowly flashing alternately.
  - If the auto restart function has been set, the air conditioner will operate with the settings immediately before the power supply was turned off.
  - If an error has occurred, the lamps on the receiver unit will flash quickly to indicate the error code.

## 1. LOAD BATTERIES (R03/LR03 × 2)

- Press and slide the battery compartment lid on the reverse side to open it. Slide in the direction of the arrow while pressing the mark.
- Insert batteries.
- Close the battery compartment lid.



## CAUTION

- Take care to prevent infants from accidentally swallowing batteries.
- When not using the Remote Control Unit for an extended period, remove the batteries to avoid possible leakage and damage to the unit.
- If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately wash with copious amounts of water, and consult your physician.
- Dead batteries should be removed immediately and disposed of properly, either in a battery collection receptacle or to the appropriate authority.
- Do not attempt to recharge dry batteries.

## NOTES

- Never mix new and used batteries, or batteries of different types.
- Batteries should last about one year under normal use. If the Remote Control Unit's operating range becomes appreciably reduced, replace the batteries and press the RESET button with the tip of a ballpoint pen or other small object.

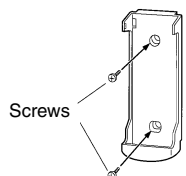
## 2. REMOTE CONTROL UNIT HOLDER INSTALLATION

## CAUTION

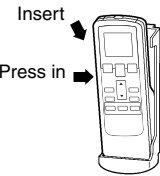
- Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote control unit holder.
- Select the remote control unit holder selection site by paying careful attention to the following:  
Avoid places in direct sunlight.  
Select a place that will not be affected by the heat from a stove, etc.

- Install the remote control unit with a distance of 7 m between the remote control unit and the signal receiver as the criteria. However, when installing the remote control unit, check that it operates positively.
- Install the remote control unit holder to a wall, pillar, etc. with the tapping screw.

## ① Mount the Holder.



## ② Set the Remote Control Unit.



## ③ To remove the Remote Control Unit (when use at hand).



- This procedure changes to the function settings used to control the indoor unit according to the installation conditions. Incorrect settings can cause the indoor unit malfunction.
- After the power is turned on, perform the "FUNCTION SETTING" according to the installation conditions using the remote control unit.
- The settings may be selected between the following two: Function Number or Setting Value.
- Settings will not be changed if invalid numbers or setting values are selected.

## Entering the Function Setting Mode

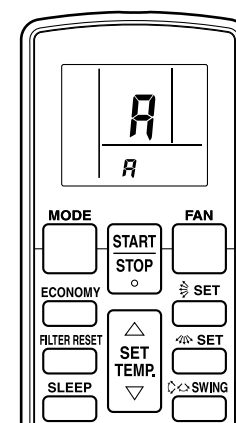
- While pressing the FAN button and SET TEMP. (▲) (▼) simultaneously, press the RESET button to enter the function setting mode.

## STEP 1

## Setting the Remote Control Unit Signal Code

Use the following steps to select the signal code of the remote control unit. (Note that the air conditioner cannot receive a signal code if the air conditioner has not been set for the signal code.) The signal codes that are set through this process are applicable only to the signals in the FUNCTION SETTING. For details on how to set the signal codes through the normal process, refer to SELECTING THE REMOTE CONTROL UNIT SIGNAL CODE.

- Press the SET TEMP. (▲) (▼) button to change the signal code between  $A \rightarrow B \rightarrow C \rightarrow D$ .  
Match the code on the display to the air conditioner signal code. (initially set to  $A$ )  
(If the signal code does not need to be selected, press the MODE button and proceed to STEP 2.)
- Press the TIMER MODE button and check that the indoor unit can receive signals at the displayed signal code.
- Press the MODE button to accept the signal code, and proceed to STEP 2.



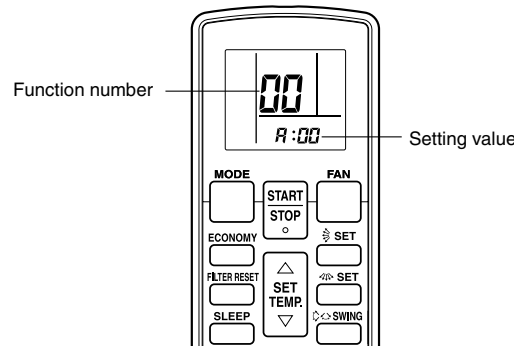
The air conditioner signal code is set to A prior to shipment.  
Contact your retailer to change the signal code.

The remote control unit resets to signal code A when the batteries in the remote control unit are replaced. If you use a signal code other than signal code A, reset the signal code after replacing the batteries.  
If you do not know the air conditioner signal code setting, try each of the signal codes ( $A \rightarrow B \rightarrow C \rightarrow D$ ) until you find the code which operates the air conditioner.

## STEP 2

## Selecting the Function Number and Setting Value

- Press the SET TEMP. (▲) (▼) buttons to select the function number.  
(Press the MODE button to switch between the left and right digits.)
- Press the FAN button to proceed to setting the value.  
(Press the FAN button again to return to the function number selection.)
- Press the SET TEMP. (▲) (▼) buttons to select the setting value.  
(Press the MODE button to switch between the left and right digits.)
- Press the TIMER MODE button, and START/STOP button, in the order listed to confirm the settings.
- Press the RESET button to cancel the function setting mode.
- After completing the FUNCTION SETTING, be sure to turn off the power and turn it on again.



## CAUTION

After turning off the power, wait 10 seconds or more before turning on it again.  
The FUNCTION SETTING doesn't become effective if it doesn't do so.

## Setting the Ceiling Height

- Select the setting values in the table below according to the height of the ceiling.  
(The unit is factory-set to "00")

Setting Description	Function Number	Setting Value
standard	20	00
3.2m(2.7m to 4m)		01
Low ceiling 2.5m(2.5m to 2.7m)		02
High ceiling 5m(4m to 5m)		

The ceiling height valves are for the 4-way outlet.

## Setting the Outlet Directions

- Select the setting values in the table below for using a 3-way outlet.  
(The unit is factory-set to "00")

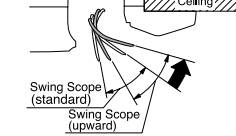
Setting Description	Function Number	Setting Value
4-way	22	00
3-way		01

## Setting the vertical wind direction adjustment range

- The use of "Up mode" is recommended if you wish to prevent draft.  
(The unit is factory-set to "00")
- Note that the ceiling may become dirty depending on your usage condition. When this happens, we recommend the use of the optional "PANEL SPACER KIT".

Setting Description	Function Number	Setting Value
Standard	23	00
Up		01

- We recommend the use of "Up mode" when using "High ceiling mode".



## Setting the Filter Sign

- The indoor unit has a sign to inform the user that it is time to clean the filter.
- Select the time setting for the filter sign display interval in the table below according to the amount of dust or debris in the room. (The unit is factory-set to "00").
- If you do not wish the filter sign to be displayed, select the setting value for "No indication".

Setting Description	Function Number	Setting Value
standard (2,500 hours)	11	00
Long interval (4,400 hours)		01
Short interval (1,250 hours)		02
No indication		03

## Setting the Cooler Room Temperature Correction

- Depending on the installed environment, the room temperature sensor may require a correction.  
The settings may be selected as shown in the table below.  
(The unit is factory-set to "00".)

Setting Description	Function Number	Setting Value
Standard	30	00
Lower control		01

## Setting the Heater Room Temperature Correction

- Depending on the installed environment, the room temperature sensor may require a correction.  
The settings may be changed as shown in the table below.  
(The unit is factory-set to "00".)

Setting Description	Function Number	Setting Value
Standard	31	00
Lower control		01
Slightly warmer control		02
Warmer control		03

## Setting Other Functions

- The following settings are also possible, depending on the operating conditions.  
(The unit is factory-set to "00".)

## AUTO Restart

Setting Description	Function Number	Setting Value
Yes	40	00
No		01

## Setting record

- Record any changes to the settings in the following table.

Setting	Setting Value
Ceiling height	
Outlet direction	
Vertical wind direction adjustment range	
Filter sign	
Cooler room temperature correction	
Heater room temperature correction	
Auto restart	

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

## CHECK ITEMS

- Is operation of each button on the remote control unit normal?
  - Does each lamp light normally?
  - Is the drain normal?
  - Is there any abnormal noise and vibration during operation?
- Do not operate the air conditioner in the running state for a long time.
  - Test running

When the air conditioner is run by pressing the remote control unit test run button, the OPERATION and TIMER lamps flash slowly at the same time.

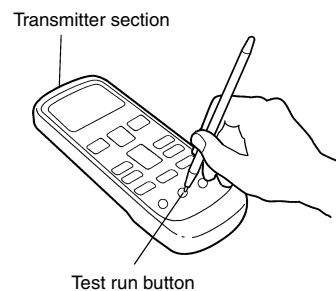
## [OPERATION METHOD]

- For the operation method, refer to the operating manual.
- The outdoor unit may not operate depending on the room temperature. In this case, press the test run button on the remote control unit while the air conditioner is running. (Point the transmitter section of the remote control unit toward the air conditioner and press the test run button with the tip of a ball-point pen, etc.)

## [ERROR CONTENTS]

Error contents	OPERATION lamp (GREEN)	TIMER lamp (ORANGE)	FILTER lamp (RED)
Indoor signal error	×	○	×
Wired remote controller abnormal	×	(8 times) ○	×
Indoor room temperature sensor error	(2 times) ○	(2 times) ○	×
Indoor heat exchanger temperature sensor (middle) error	(2 times) ○	(3 times) ○	×
Indoor heat exchanger temperature sensor (inlet) error	(2 times) ○	(4 times) ○	×
Float switch operated	(2 times) ○	(6 times) ○	×
Outdoor discharge pipe temperature sensor error	(3 times) ○	(2 times) ○	×
Outdoor heat exchanger temperature sensor (outlet) error	(3 times) ○	(3 times) ○	×
Outdoor temperature sensor error	(3 times) ○	(4 times) ○	×
Heat sink thermistor error	(3 times) ○	(7 times) ○	×
Compressor temperature sensor error	(3 times) ○	(8 times) ○	×
2-way valve temperature sensor error	(3 times) ○	×	(2 times) ○
3-way valve temperature sensor error	(3 times) ○	×	(3 times) ○
Outdoor heat exchanger temperature sensor (middle) error	(3 times) ○	×	(4 times) ○
Indoor manual auto switch abnormal	(4 times) ○	(2 times) ○	×
Power supply frequency detection error	(4 times) ○	(4 times) ○	×
IPM protection	(5 times) ○	(2 times) ○	×
CT error	(5 times) ○	(3 times) ○	×
Compressor location error	(5 times) ○	(5 times) ○	×
Outdoor fan error	(5 times) ○	(6 times) ○	×
Connected indoor unit abnormal	(5 times) ○	(7 times) ○	×
Outdoor unit computer communication error	(5 times) ○	(8 times) ○	×
Indoor fan abnormal	(6 times) ○	(2 or 3 times) ○	×
Discharge temperature error	(7 times) ○	(2 times) ○	×
Excessive high pressure protection on cooling	(7 times) ○	(3 times) ○	×
4-way valve abnormal	(7 times) ○	(4 times) ○	×
Pressure switch abnormal	(7 times) ○	(5 times) ○	×
Compressor temperature error	(7 times) ○	(6 times) ○	×
Active filter abnormal	(8 times) ○	(2 or 3 times) ○	×
PFC circuit error	(8 times) ○	(4 times) ○	×

○ : 0.5s ON/0.5s OFF (flash)    × : OFF



Test run button

- To end test operation, press the remote control unit START/STOP button.  
(When the air conditioner is run by pressing the test run button, the OPERATION indicator lamp and TIMER indicator lamp will simultaneously flash slowly.)

When two or more air conditioners are installed in a room and the remote control unit is operating an air conditioner other than the one you wish to set, change the signal code of the remote control unit to operate only the air conditioner you wish to set (four selections possible).

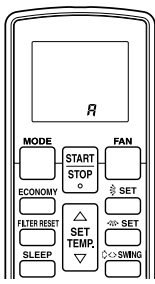
When two or more air conditioners are installed in a room, please contact your retailer to set the individual air conditioner signal codes.

- Confirm the setting of the remote control unit signal code and the printed circuit board setting.  
If these are not confirmed, the remote control unit cannot be used to operate for the air conditioner.

## Selecting the Remote Control Unit Signal Code

Use the following steps to select the signal code of the remote control unit. (Note that the air conditioner cannot receive a signal code if the air conditioner has not been set for the signal code.)

- Press the START/STOP button until only the clock is displayed on the remote control unit display.
- Press the MODE button for at least five seconds to display the current signal code (initially set to  $A$ ).
- Press the SET TEMP. (▲) (▼) button to change the signal code between  $A \rightarrow B \rightarrow C \rightarrow D$ .  
Match the code on the display to the air conditioner signal code.
- Press the MODE button again to return to the clock display. The signal code will be changed.



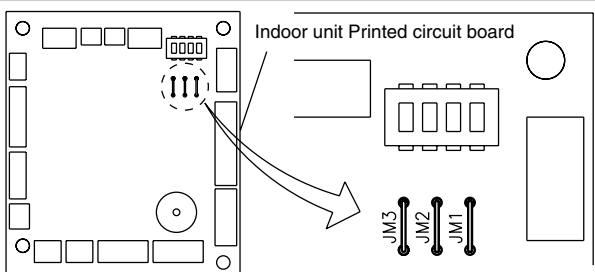
If no buttons are pressed within 30 seconds after the signal code is displayed, the system returns to the original clock display. In this case, start again from step 1.

The air conditioner signal code is set to A prior to shipment.  
Contact your retailer to change the signal code.

The remote control unit resets to signal code A when the batteries in the remote control unit are replaced. If you use a signal code other than signal code A, reset the signal code after replacing the batteries.  
If you do not know the air conditioner signal code setting, try each of the signal codes ( $A \rightarrow B \rightarrow C \rightarrow D$ ) until you find the code which operates the air conditioner.

## Indoor unit setting

Jumper wire	Remote control unit signal code
Connect	A (Primary setting)
Disconnect	B
Connect	Disconnect
Disconnect	C
Disconnect	Disconnect
	D



## CAUTION

When cutting off the jumper wire, be careful not to damage the other parts within the printed circuit board.