

# AIR CONDITIONER OPTIONAL PARTS

## IR Receiver Kit

# INSTALLATION MANUAL

For authorized service personnel only.

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

**WARNING** Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.

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 installation work is complete.

**CAUTION** Indicates a potentially hazardous situation that may result in minor or moderate injury or damage to property.

Do not wire the IR 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 IR receiver kit wire near a source of electromagnetic waves.

1

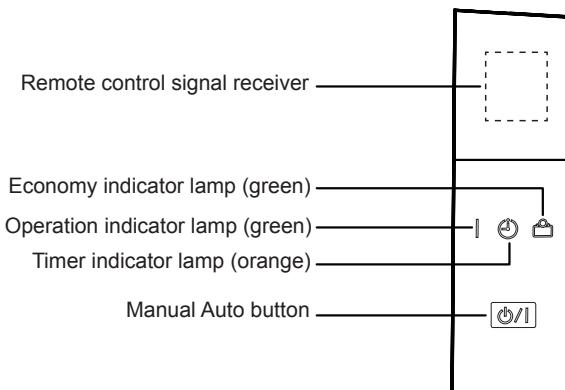
## PARTS AND ACCESSORIES

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

Name and shape	Q'ty	Application	Name and shape	Q'ty	Application
Operation manual	1	—	Remote controller	1	Use for air conditioner operation
Installation manual	1	(this book)	Battery	2	For remote controller
IR receiver unit	1	For receiving the signal from the remote controller	Remote controller holder	1	For holding the remote controller
Cable	1	For connecting to IR receiver unit	Screw (ø3)	2	For installing remote controller holder to wall
			Cable tie	1	For connection IR receiver cable fixing

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## CONTROL PANEL

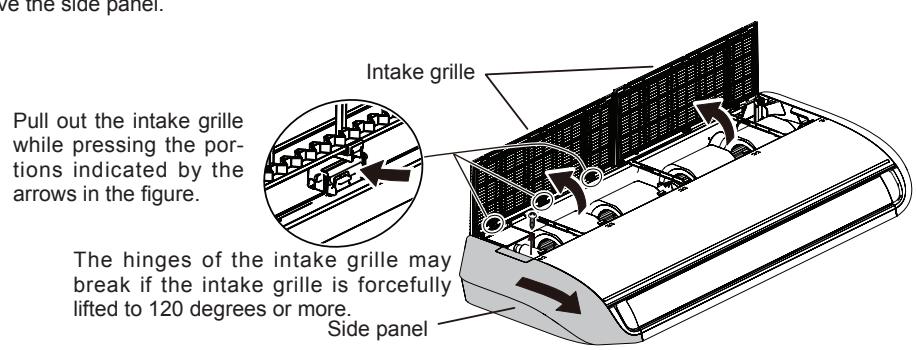


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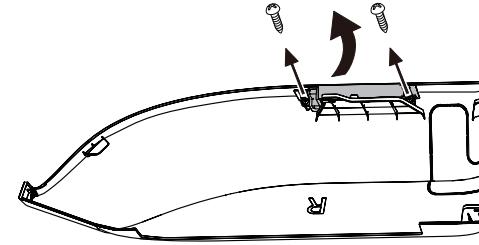
## INSTALLING THE IR RECEIVER UNIT

### 3-1. INSTALLING THE IR RECEIVER UNIT

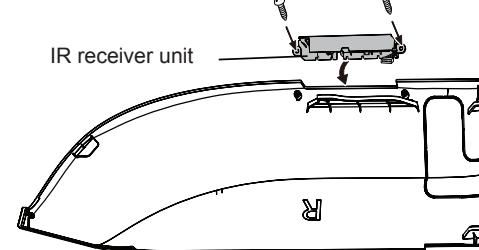
- As shown in the picture, open the intake grille and remove one screw. Then, remove the side panel.



- Remove two screws from the side panel, and take off the part.



- Attach the IR receiver unit and fix it with two screws.



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## TURNING ON THE BREAKER

- Turn on the breaker.
- Make sure that the Operation indicator lamp and Timer indicator 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 IR receiver unit will flash quickly to indicate the error code. (See "9. ERROR CODES")

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## REMOTE CONTROLLER SETTING

**WARNING**

Take care to prevent infants and young children from accidentally swallowing the batteries.

**CAUTION**

Do not attempt to recharge dry batteries.

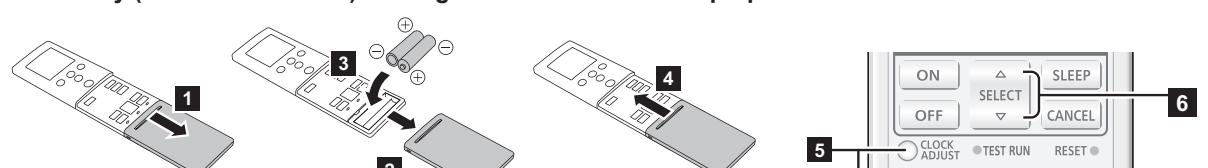
Do not use dry batteries that have been recharged.

When not using the remote controller 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.

Exhausted batteries should be removed immediately and disposed of properly, either in a battery collection receptacle or to the appropriate authority.

### 5-1. Battery (R03/LR03/AAA × 2) loading and remote controller preparation



5 Press "CLOCK ADJUST" button to start clock setting.

6 Set the time by pressing "SELECT (△▽)" button. (By pressing the "TEMP. (▲▼)" buttons, the time indicator can be changed from a 24-hour to a 12-hour clock.)

Pressing △ or ▽ changes the value by the minute. Pressing down on △ or ▽ changes the value by 10 minutes.

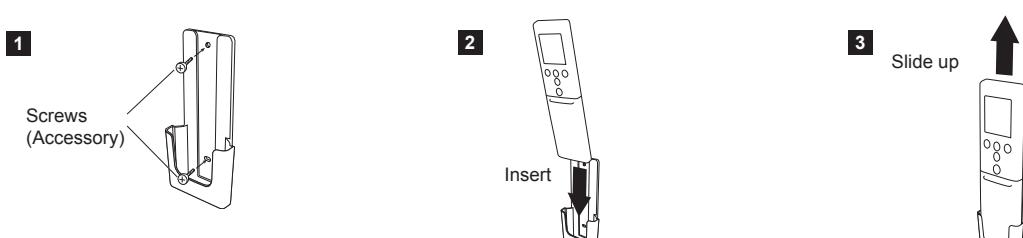
7 To complete, press the "CLOCK ADJUST" button again.

### i NOTES

- Use specified type of batteries only.
- Do not mix different types or new and used batteries together.
- Batteries can be used about 1 year in ordinary use.
- If the remote control range noticeably shortens, or the display is pale or difficult to see, replace the batteries, and press the "RESET" button as shown in the figure.



### 5-2. REMOTE CONTROLLER HOLDER INSTALLATION



## FUNCTION SETTING

Perform the function setting according to the installation conditions using the remote controller.

### CAUTION

Confirm whether the wiring work for outdoor unit has been finished.

Confirm that the cover for the electrical enclosure on the outdoor unit is in place.

- 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 to malfunction.
- After the power is turned on, perform the function setting according to the installation conditions using the remote controller.
- The settings may be selected between the following two: function number and setting value.
- Settings will not be changed if invalid numbers or setting values are selected.
- Refer to the installation manual enclosed with the remote controller when the wired remote controller is used.

### 6-1. Entering the function setting mode

While pressing the "ECONOMY" button and "TEMP. (A)" button simultaneously, press the "RESET" button to enter the function setting mode.

Press the "10°C HEAT" button.

### 6-2. Selecting the function number and setting value

(1) Press the "TEMP. (A)" buttons to select the function number. (Press the "10°C HEAT" button to switch between the left and right digits.)

(2) Press the "ECONOMY" button to proceed to setting value. (Press the "ECONOMY" button again to return to the function number selection.)

(3) Press the "TEMP. (A)" buttons to select the setting value. (Press the "10°C HEAT" button to switch between the left and right digits.)

(4) Press the "MODE" button once to send the function setting information.

Please confirm the beeping sound.

(5) Press the Start/Stop (S/I) button once to fix the function setting. Please confirm the beeping sound.

(6) Press the "RESET" button to cancel the function setting mode.

(7) After completing the function setting, be sure to turn off the power and turn it on again.

### CAUTION

After turning off the power, wait 30 seconds or more before turning it on again. The function setting does not become active unless the power is turned off then on again.

### Filter sign

Select appropriate intervals for displaying the filter sign on the indoor unit according to the estimated amount of dust in the air of the room. If the indication is not required, select "No indication" (03). (♦... Factory setting)

Function number	Setting value	Setting description
11	00	Standard (2500 hours)
	01	Long interval (4400 hours)
	02	Short interval (1250 hours)
	03	No indication

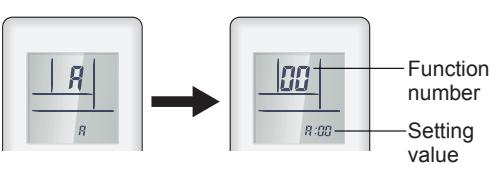
### Ceiling height

Select the appropriate ceiling height according to the place of installation. (♦... Factory setting)

Function number	Setting value	Setting description
20	00	Standard (2.7 m : 18/22/24/30 type) (3.5 m : 36/45/54 type)
	01	High ceiling (3.5 m : 18/22/24/30 type) (4.3 m : 36/45/54 type)

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

Do not change this setting in the 3-way outlet mode.



Function number  
Setting value

### Horizontal louver direction switching for dew condensation prevention

Automatically switches the position of the horizontal louver if the airflow direction is set at lower than the dew condensation limit position in cooling or drying operation. Select suitable adjustment position according to the customer's preference. (♦... Factory setting)

Function number	Setting value	Setting description
28	00	Adjust to dew condensation limit position
	01	Adjust to cooling standard position

### Room temperature control for indoor unit sensor

Depending on the installed environment, correction of the room temperature sensor may be required.

Select the appropriate control setting according to the installed environment.

The temperature correction values show the difference from the Standard setting "00" (manufacturer's recommended value).

(♦... Factory setting)

Function number	Setting value	Setting description
30 (For cooling)	00	Standard setting
	01	No correction 0.0°C (0°F)
	02	-0.5°C (-1°F)
	03	-1.0°C (-2°F)
	04	-1.5°C (-3°F)
	05	-2.0°C (-4°F)
	06	-2.5°C (-5°F)
	07	-3.0°C (-6°F)
	08	-3.5°C (-7°F)
	09	-4.0°C (-8°F)
	10	+0.5°C (+1°F)
	11	+1.0°C (+2°F)
	12	+1.5°C (+3°F)
	13	+2.0°C (+4°F)
	14	+2.5°C (+5°F)
	15	+3.0°C (+6°F)
	16	+3.5°C (+7°F)
	17	+4.0°C (+8°F)

### Room temperature sensor switching

(Only for wireless remote controller)

When using the Wired remote controller temperature sensor, change the setting to "Both" (01). (♦... Factory setting)

Function number Setting value Setting description

42	00	Indoor unit
	01	Both

00: Sensor on the indoor unit is active.

01: Sensors on both indoor unit and wired remote controller are active.

\*Remote controller sensor must be turned on by using the remote controller

### Remote controller custom code

(Only for wireless remote controller)

The indoor unit custom code can be changed.

Select the appropriate custom code. (♦... Factory setting)

Function number Setting value Setting description

44	00	A
	01	B
	02	C
	03	D

### External input control

"Operation/Stop" mode or "Forced stop" mode can be selected. (♦... Factory setting)

Function number	Setting value	Setting description
46	00	Operation/Stop mode 1
	01	(Setting prohibited)
	02	Forced stop mode
	03	Operation/Stop mode 2

### Room temperature sensor switching (Aux.)

To use the temperature sensor on the wired remote controller only, change the setting to "Wired remote controller" (01). This function will only work if the function setting 42 is set at "Both" (01). (♦... Factory setting)

Function number	Setting value	Setting description
48	00	Both
	01	Wired remote controller

### Indoor unit fan control for energy saving for cooling

Enables or disables the power-saving function by controlling the indoor unit fan rotation when the outdoor unit is stopped during cooling operation. (♦... Factory setting)

Function number	Setting value	Setting description
49	00	Disable
	01	Enable
	02	Remote controller

00: When the outdoor unit is stopped, the indoor unit fan operates continuously following the setting on the remote controller.

01: When the outdoor unit is stopped, the indoor unit fan operates intermittently at a very low speed.

02: Enable or disable this function by remote controller setting.

\*When using a 3-wire remote controller, the setting cannot be made by using the remote controller. Set to "00" or "01".

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## ERROR CODES

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

Error display	Wired remote controller Error code	Description
OPERATION lamp (green)	11	Serial communication error
TIMER lamp (orange)	12	Wired remote controller communication error
ECONOMY lamp (green)	15	Check run unfinished
	16	Peripheral unit transmission PCB connection error
	18	External communication error
	21	Unit number or Refrigerant circuit address setting error [Simultaneous Multi]
	22	Indoor unit capacity error
	23	Combination error
	24	• Connection unit number error (indoor secondary unit) • Connection unit number error (outdoor unit or branch unit) [Flexible Multi]
	26	Indoor unit address setting error
	27	Primary unit, secondary unit setup error [Simultaneous Multi]
	29	Connection unit number error in wired remote controller system
	31	Power supply interruption error
	32	Indoor unit PCB model information error
	35	Manual auto switch error
	39	Indoor unit communication circuit (wired remote controller) error
	3A	Indoor unit communication circuit (wired remote controller) error
	41	Room temp. sensor error
	42	Indoor unit Heat Ex. Middle temp. sensor error
	44	Human sensor error
	51	Indoor unit fan motor error
	53	Drain pump error
	57	Damper error
	58	Indoor unit error
	61	Outdoor unit reverse/missing phase and wiring error
	62	Outdoor unit main PCB model information error or communication error
	63	Inverter error
	64	Active filter error, PFC circuit error
	65	Trip terminal L error
	68	Outdoor unit rush current limiting resistor temp. rise error
	69	Display PCB microcomputers communication error
	71	Discharge temp. sensor error
	7	