AIR CONDITIONER IR RECEIVER UNIT UTY-LRHYM

FALLATION MANUAL

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For authorized service personnel only.



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1. SAFETY PRECAUTIONS

• Let the customer keep this installation manual because it is needed when the air conditioner or receiver unit is serviced or moved.

WARNING This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
 Never touch electrical components immediately after the power supply has been turned off. Electrical shock may occur. After turning off the power, always wait 5 minutes or more before touching electrical components.

- 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 cut, shorten, or extend the cable in the standard parts.
- Do not turn on the power until all installation work is complete.

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 unit wire together with or parallel to the connection cables, transmission cables, remote controller cables, bus cable and power supply cables of the indoor and outdoor units. It may cause erroneous operation.

• Do not install the receiver unit cable near a source of electromagnetic waves.

• Do not install where there is the danger of combustible gas leakage.

• Do not install near heat sources, steam.

2. ACCESSORIES

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

Name and Shape	Q'ty	Application
Installation manual		This manual
	1	
Operating manual	1	Instruction book for operation
Receiver unit	1	For receiving the signal from the remote controller
Cover	1	For covering receiver unit
Insulation	1	For protecting PCB from dust
Receiver unit wire A 5m	1	For connecting receiver unit wire B to receiver unit
Receiver unit wire B 0.2m	1	For connecting receiver unit wire A to PCB of indoor unit
Bracket (cover)	1	For fixing receiver unit to the wall or ceiling
Screw (M3 x 12mm)	2	For installing remote controller holder to the wall
Screw (M4 x 20mm)	2	For installing receiver unit to the wall or ceiling
Battery (R03/LR03)	2	For remote controller
Remote controller holder	1	Use as remote controller holder

3. OPTIONAL PARTS

Name and Shape	Q'ty	Application	Part No.
Receiver unit wire C 10m	1	For extending the receiver unit wire	9707598025

4. FUNCTIONS AND DIMENSIONS



Dimensions



Unit: mm

5. SELECTING THE INSTALLATION LOCATION

Consult the customer and determine the installation location according to the following:

- (1) The receiver unit cable can be extended up to 10m. (To extend the wiring, purchase the optional receiver unit wire C.)
- (2) The signal reception angle of the receiver unit is shown in the figures below.
- (3) Do not install the receiver unit near a fluorescent light. (The unit must be at least 1m away from a light source.)
- (4) Do not install the receiver unit where it will be exposed to direct sunlight.
- (5) Do not install the receiver unit where it will be exposed directly to the airflow from the indoor unit.



6. INSTALLING THE RECEIVER UNIT

- Do not touch the PCB or PCB parts of receiver unit directly with your hands.
- Fixing of the holder cover with the screws in the standard parts may be unsuitable if the wall or ceiling material is weak. If so, prepare screws suitable for the wall or ceiling material, and fix it.

6.1. Select the wiring pattern



II. Attaching the receiver unit (Wiring pattern A)



7. WIRING

- Before starting work, make sure that power is not being supplied to the indoor unit.
- Always fasten the outside covering of the connection cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.)

- Do not touch the PCB or PCB parts of indoor unit directly with your hands.
- When fixing the wiring, be careful to avoid touching the edge of the indoor unit or the control box.
- Install the remote controller wires so as not to be direct touched with your hand.
- Make sure to use and roll an insulation tube of more than 1 mm thick at the connection point of the receiver unit wire A and the receiver unit wire B.



PROCEDURE

Please refer to the installation manual of each indoor unit for details.



8. TURNING ON THE POWER

- ① Turn on the breaker.
- ② 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 receiver unit will flash quickly to indicate the error code. (Referring to 3 of this installation manual)

9. SETTING THE REMOTE CONTROLLER

9.1. 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 T mark. ② Insert batteries.
- Be sure to align the battery polarities $(\oplus/)$ correctly.
- ③ Close the battery compartment lid.

⚠ CAUTION

- Take care to prevent infants from accidentally swallowing batteries.
- 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.
- 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 1 year under normal use. If the Remote Controller'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.

9.2. Installing the remote controller holder

△ CAUTION

- Check that the indoor unit correctly receives the signal from the remote controller, then install the remote controller holder.
- Select the remote controller holder selection site by paying careful attention to the following: Avoid places in direct sunlight.
 Select a clear the selection of the selection of

Select a place that will not be affected by the heat from a stove, etc.

- Install the remote controller with a distance of 5 m between the remote controller and the signal receiver of the receiver unit as the criteria.
 However, when installing the remote controller, check that it operates positively.
- Install the remote controller holder to a wall, pillar, etc. with the screw.

(1) Mount the Holder.

(2) Set the Remote Controller.



(3) To remove the Remote Controller (when use at hand).



10. FUNCTION SETTING

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

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

Selecting the Remote Controller Signal Code

Use the following steps to select the signal code of the remote controller. (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 11. SELECTING THE REMOTE CONTROLLER SIGNAL CODE.



Match the code on the display to the air conditioner signal code. (initially set to $\frac{1}{2}$)

(If the signal code does not need to be selected, press the MODE button and proceed to STEP 2.)

- ② Press the TIMER MODE button and check that the indoor unit can receive signals at the displayed signal code.
- ③ 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 controller resets to signal code A when the batteries in the remote controller 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 ($\mathbf{A} \rightarrow \mathbf{b} \rightarrow \mathbf{c} \rightarrow \mathbf{c}$) until you find the code which operates the air conditioner.

STEP 2

SELECTING THE FUNCTION NUMBER AND SETTING VALUE Refer to the indoor unit installation manual for details on the function numbers and setting values.

Selecting the Function Number and Setting Value

- (1) Press the SET TEMP. (\bigstar) (\bigtriangledown) buttons to select the function number.
- (Press the MODE button to switch between the left and right digits.) ② Press the FAN button to proceed to setting the value.
- (Press the FAN button again to return to the function number selection.) (3) Press the SET TEMP. (\blacktriangle) (\bigtriangledown) buttons to select the setting value.
- (Press the MODE button to switch between the left and right digits.)
 (4) 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.
- 6 After completing the FUNCTION SETTING, be sure to turn off the power and turn it on again.



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.

Function Details

	Functions	Function number	Slim duct
1)	Filter sign	11	●*1
2)	Static pressure	-	•
3)	Cooler room temperature correction	30	•
4)	Heater room temperature correction	31	•
5)	Auto restart	40	•
6)	Indoor room temperature sensor switching function	42	•
7)	Remote controller signal code	44	•
8)	External input control	46	•
9)	Room temperature control switching	48	•

*1: It is effective only to install IR Receiver unit.

1) Filter sign

٠

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. If you do not wish the filter sign to be displayed, select the setting value for "No indication". (ϕ ... Factory setting)

		, , ,
Setting description	Function number	Setting value
Standard		00
Long interval	11 -	01
Short interval		02
No indication		03

The filter sign interval time is different according to Indoor unit type.

Please refer to the installation manual of each indoor unit for details.

FILTER INDICATOR RESET

It lights on if the filter became dirty.

Clean the filter referring to "CLEANING AND CARE (indoor unit operating manual)".

After cleaning, press the MANUAL AUTO button (indoor unit) for 2 seconds or less on the indoor unit.



2) Static pressure

Select appropriate static pressure according to the installation conditions. Please refer to the installation manual of each indoor unit for details.

3) Cooler room temperature correction

Depending on the installed environment, the room temperature sensor may require a correction.

Please refer to the installation manual of each indoor unit for details.

4) Heater room temperature correction

Depending on the installed environment, the room temperature sensor may require a correction.

Please refer to the installation manual of each indoor unit for details.

5) Auto restart

Enable or disable automatic system restart after a power outage.

		(• Tactory setting)
	Setting description	Function number	Setting value
	Yes	40	00
Ì	No		01

* Auto restart is an emergency function such as for power failure etc. Do not start and stop the indoor unit by this function in normal operation. Be sure to operate by the controller, or external input device.

6) Indoor room temperature sensor switching function

(Only for Wired remote controller) The following settings are needed when use the control by Wired remote controller temperature sensor.

(Factory	setting
(▼	I actory	seung

	(• Tactory setting)
Setting description	Function number	Setting value
No	40	00
Yes	42	01

* If setting value is "00" :

Room temperature is controlled by the indoor unit temperature sensor.

* If setting value is "01" :

Room temperature is controlled by either indoor unit temperature sensor or remote controller unit sensor.

7) Remote controller signal code

Change the indoor unit Signal Code, depending on the remote controllers.

		(• Tuotory Setting)
	Setting description	Function number	Setting value
٠	A		00
	В	44	01
	С	44	02
	D		03

8) External input control

"Operation/Stop" mode or "Forced stop" mode can be selected.

		(Factory setting)
	Setting description	Function number	Setting value
٠	Operation/Stop mode		00
	(Setting forbidden)	46	01
	Forced stop mode		02

9) Room temperature control switching

(Only for Wired remote controller)

This setting is used to set the room temperature control method when the wired remote controller is selected by the Indoor Room Temperature Sensor Switching Function.

	J	(•	Factory setting)
	Setting description	Function number	Setting value
•	Control by the sensors of both the indoor unit and the wired remote controller.	48	00
	Control only by the sensor of the wired remote controller		01

10) Setting record

Record any changes to the settings in the following table.

Setting description	Setting value
Filter sign	
Static pressure	
Cooler room temperature correction	
Heater room temperature correction	
Auto restart	
Indoor room temperature sensor switching function	
Remote controller signal code	
External input control	
Room temperature control switching	

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

11. SELECTING THE REMOTE CONTROLLER SIGNAL CODE

When 2 or more air conditioners are installed in a room and the remote controller is operating an air conditioner other than the one you wish to set, change the signal code of the remote controller to operate only the air conditioner you wish to set (4 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.

Selecting the Remote Controller Signal Code

Use the following steps to select the signal code of the remote controller. (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 controller display.
- ② Press the MODE button for at least 5 seconds to display the current signal code (initially set to ^I/_I).

- ③ Press the SET TEMP. (▲) (▼) button to change the signal code between A→b→b→c→d.
- Match the code on the display to the air conditioner signal code.
- ④ 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 controller resets to signal code A when the batteries in the remote controller 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 $(\square \to \square \to \square \to \square)$ until you find the code which operates the air conditioner.

12. TEST OPERATION

The outdoor unit may not operate depending on the room temperature. In this case, press the test run button on the remote controller while the air conditioner is running. (Point the transmitter section of the remote controller toward the air conditioner and press the test run button with the tip of a ballpoint pen, etc.)



rest run button

To end test operation, press the remote controller START/STOP button.

13. ERROR CODES

If you use a wired type remote control, error codes will appear on the remote control display. If you use a wireless remote control, 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			Marine d		
OPERA- TION lamp (green)	TIMER lamp (orange)	ECONO- MY lamp (green)	Wired remote controller Error code	Mode	DESCRIPTION
• (1)	• (1)	\diamond	11	Communi- cation	Serial commu- nication error
(1)	(2)	\diamond	12	Communi- cation	Remote controller communication error
• (1)	(5)	\diamond	15	Communi- cation	Scan error
(2)	• (1)	\diamond	21	Function setting	Initial setting error
(2)	(2)	\diamond	22	Function setting	Indoor unit capacity error
(2)	(3)	\diamond	23	Function setting	Connection disabled (series error)
(2)	(4)	\diamond	24	Function setting	Connection unit number error
(3)	(2)	\diamond	32	Indoor unit	Indoor unit main PCB error
(3)	(5)	\diamond	35	Indoor unit	Manual auto switch error
(4)	(1)	\diamond	41	Indoor unit	Room (temperature) thermistor error
(4)	(2)	\diamond	42	Indoor unit	Indoor unit Heat Ex. sensor error
(5)	(1)	\diamond	51	Indoor unit	Indoor unit fan motor error
(5)	(3)	\diamond	53	Indoor unit	Water Drain error
(5)	• (15)	\diamond	511	Indoor unit	Indoor unit error
(6)	(2)	\diamond	62	Outdoor unit	Outdoor unit main PCB error
(6)	(3)	\diamond	63	Outdoor unit	Inverter PCB error
(6)	(4)	\diamond	54	Outdoor unit	Active filter error, PFC circuit error

(6)	(5)	\diamond	65	Outdoor unit	IPM error
(6)	(10)	\diamond	5 8	Outdoor unit	Display panel error
(7)	(1)	\diamond	71	Outdoor unit	Discharge thermistor error
• (7)	(2)	\diamond	57	Outdoor unit	Compressor thermistor error
• (7)	(3)	\diamond	EF	Outdoor unit	Outdoor unit Heat Ex. Sensor error
• (7)	(4)	\diamond	74	Outdoor unit	Outdoor thermistor error
• (7)	(5)	\diamond	75	Outdoor unit	Suction Gas thermistor error
• (7)	(7)	\diamond	77	Outdoor unit	Heat sink thermistor error
(8)	(2)	\diamond	82	Outdoor unit	Sub-cool Heat Ex. gas thermistor error
(8)	(3)	\diamond	83	Outdoor unit	Liquid pipe thermistor error
(8)	(4)	\diamond	84	Outdoor unit	Current sensor error
(8)	(6)	\diamond	85	Outdoor unit	Pressure sensor error
(9)	• (4)	\diamond	94	Outdoor unit	Trip detection
(9)	(5)	\diamond	95	Outdoor unit	Compressor motor control error
(9)	(7)	\diamond	97	Outdoor unit	Outdoor unit fan motor 1 error
(9)	(9)	\diamond	99	Outdoor unit	4-way valve error
• (10)	(1)	\diamond	81	Refrigerant system	Discharge temperature 1 error
• (10)	(3)	\diamond	83	Refrigerant system	Compressor temperature error
• (10)	(5)	\diamond	85	Refrigerant system	Pressure error 2
• (13)	• (2)	\diamond	51	Branch box	Unit flow divider error

Display mode •: 0.5s ON / 0.5s OFF : 0.1s ON / 0.1s OFF

(): Number of flashing

Wired Remote Controller Display

------ Error code

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