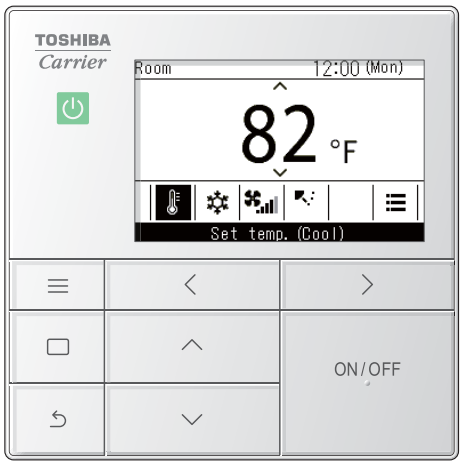
TOSHIBA
Carrier

Installation Manual
Wired remote controller

For commercial use

Model name:

RBC-AWSU52-UL



- Refer to this manual when using an RBC-AWSU52-UL remote controller.
- Refer to the Installation Manual, which is provided with the air conditioner, for information not related to operating the remote controller.

Multilingual installation manuals and owner's manual

[български] Изтегляне на Ръководство за монтаж и Ръководство на потребителя / [Česky] Stažení Instalační příručky a Uživatelské příručky / [Dansk] Download af installationsvejledning og brugervejledning / [Deutsch] Installationshandbuch und Bedienungsanleitung herunterladen / [Ελληνικά] Λήψη εγχειριδίου εγκατάστασης και εγχειριδίου κατόχου / [English] Installation manual and Owner's manual Download / [Español] Descarga del Manual de instalación y del Manual del propietario / [Eesti] Paigaldusjuhendi ja kasutusjuhendi allalaadimine / [Suomi] Asennusohjeiden ja käyttöohjeiden lataaminen / [Français] Téléchargement du manuel d'installation et du manuel du propriétaire / [Hrvatski] Preuzimanje Instalacijskog priručnika i Vlasničkog priručnika. / [Magyar] Telepítési kézikönyv és Felhasználói kézikönyv letöltése / [Italiano] Download del Manuale di installazione e del Manuale dell'utilizzatore / [한국어] 설치 설명서 및 사용자 설명서 다운로드 / [Latviešu] Uzstādīšanas rokasgrāmatas un lietotāja rokasgrāmatas lejupielāde / [Norsk] Nedlasting av installasjonsveiledning og bruksanvisning / [Nederlands] Installatiehandleiding en Handleiding downloaden / [Polski] Pobieranie Instrukcji instalacyjnej oraz Instrukcji użytkownika / [Português] Download do Manual de instalação e Manual do Proprietário / [Română] Descărcarea Manualului de instalare și a Manualului proprietarului / [Русский] Скачать Руководство по установке и Руководство пользователя / [Slovensky] Stiahnutie Montážnej príručky a Užívateľskej príručky / [Slovenščina] Prenos navodil za montažo in navodil za uporabo / [Svenska] Nedladdning av installationshandbok och bruksanvisning / [Türkçe] Kurulum kılavuzu ve Kullanıcı kılavuzu İndirme / [中文] 安装手册和用户手册下载

https://www.toshiba-carrier.co.jp/global/manual/rbc-amsu52-e.htm

English

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1 Safety precautions

- This section describes safety measures to prevent harm to users and other people, and damage to property.
- Understand the following indications and symbols before reading the rest of this manual, and follow the instructions.

Explanation of indications	
⚠ WARNING	This indicates that failure to adhere to the directions in the warnings could result in serious bodily harm (*1) or loss of life if the product is handled improperly.
⚠ CAUTION	This indicates that failure to adhere to the directions in the caution could result in serious bodily injury (*2) or damage to property (*3) if the product is handled improperly.

*1: Serious bodily harm indicates loss of eyesight, injury, burns, electric shock, bone fracture, poisoning, and other injuries which leave after effects and injuries which require hospitalization or long-term treatment as an outpatient.
*2: Moderate injury indicates injury, burns, electric shock, and other injuries which do not require hospitalization or long-term treatment as an outpatient.
*3: Damage to property indicates damage extending to buildings, household effects, domestic livestock, or pets.

Explanation of symbols	
	The ⃠ sign indicates a prohibited action. The specific prohibited action is indicated by a pictograph or warning text placed inside or next to the symbol.
	This ● sign indicates a mandatory action, an action that must be performed. The actual contents of the instructions are indicated by a picture or text placed inside or next to the symbol.
	The pictograph inside △ and nearby text indicates additional information about cautions.

⚠ WARNING

- **Ask your original dealer or a professional for installation work**
  Installation requires specialised technical expertise.
  Attempting to carry out installation on your own and doing so incorrectly may lead to fire, electric shock, injury or water leakage.
- **Installation work should be done correctly according to the Installation Manual and the Installation Manual for the indoor unit and the outdoor unit**
  Faulty installation work may cause fire, electric shock, injury, or water leaks.
- **Electric work must be done using a dedicated circuit by a certified electrician according to the "Engineering Standard for Electric Work", "Internal Wiring Regulations", and the Installation Manual**
  Attempting to carry out installation on your own and doing so incorrectly may lead to fire, electric shock, injury or water leakage.
- **Use the specified cables for wiring and connect them securely so that the connections are not affected by external forces**
  Attempting to carry out installation on your own and doing so incorrectly may lead to fire, electric shock, injury or water leakage.

2 Description of terminology

Terminology	Description
Group connection	A method of connecting multiple indoor units, as 1 group, to the same remote controller.
Header/Follower	To use 2 remote controllers for 1 (1 group of) indoor unit, so that one of the remote controllers is set as the “Header remote controller” and the other as the “Follower remote controller”.
Header remote controller	The one set as the “Header remote controller” can operate all the functions.
Follower remote controller	The one set as the “Follower remote controller” cannot operate some functions. (For the functions that cannot be operated, refer to <Header/Follower (Settings required to use 2 remote controllers to do operations)>. (Page 19))
Central control device	A device that batch controls multiple air conditioners.

3 Included items

Accessory parts	Qty.
Remote controller	1
Screws 0.16″ × 0.79″ (M4 × 20 mm)	2
Wood screws 0.15″ × 0.63″ (M3.8 × 16 mm)	2
Owner’s Manual	1
Installation Manual (this manual)	1
Bluetooth® function Owner’s Manual	1

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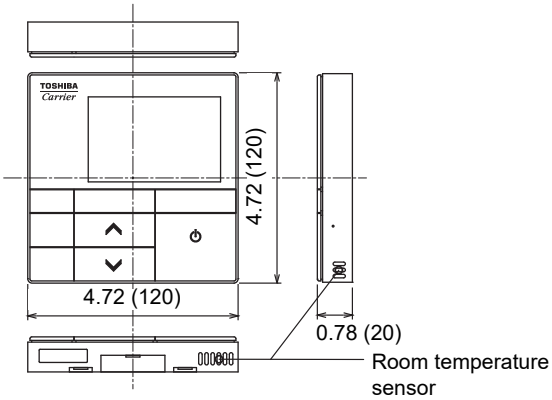
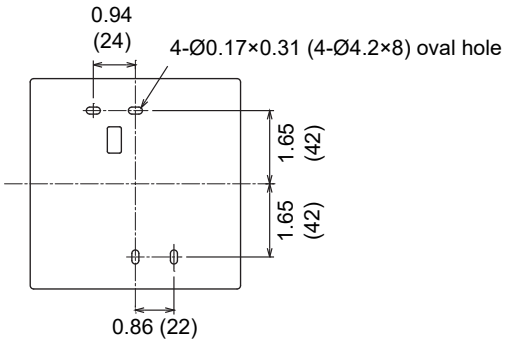
4 About installation

Installation location and installation dimensions

- Install the remote controller at a height of 3′3″ to 4′9″ (1 to 1.5 m) from the floor in a location that seems to be the average temperature of the room.
- Do not install the remote controller in a place where it will be exposed to direct sunlight or outside air (near a window or the like).
- Do not install the remote controller behind obstacles or where it is blocked from air flowing in the room.
- The remote controller is not built to waterproof or humidity-proof specifications, so do not install it in a freezer or refrigerator.
- Install the remote controller vertically on a wall, or the like.

(Unit: inch (mm))



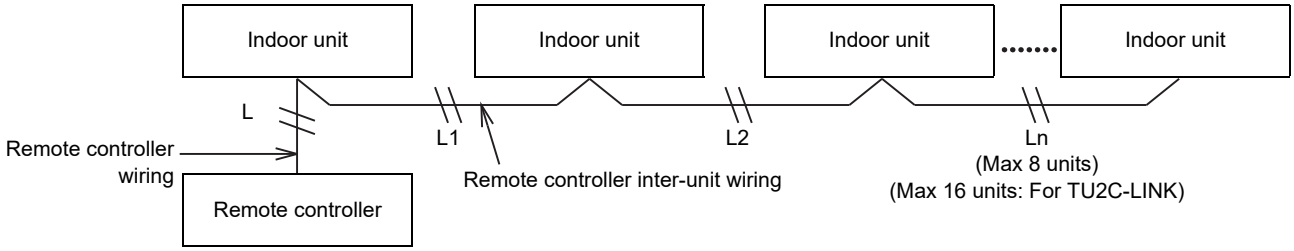


Remote controller wiring and remote controller inter-unit wiring

The remote controller wiring (communication line) and AC208 - 240 V wires cannot make contact with each other and cannot be put in the same conduits. It may cause problems in the control system due to noise or other factors.

* Varies depending on the remote controller used.

Cable type	VCTF: AWG20 to AWG14 (0.5 mm² to 2.0 mm²) × 2		
Total wire length of remote controller wiring and remote controller inter-unit wiring (L + L1 + L2 + …Ln)	1 remote controller	2 remote controllers	2 remote controllers (wireless and wired)
	Up to 1640 ft (500 m)	Up to 980 ft (300 m)	Up to 1310 ft (400 m)
Total wire length of remote controller inter-unit wiring (L1 + L2 + …Ln)	Up to 660 ft (200 m)		

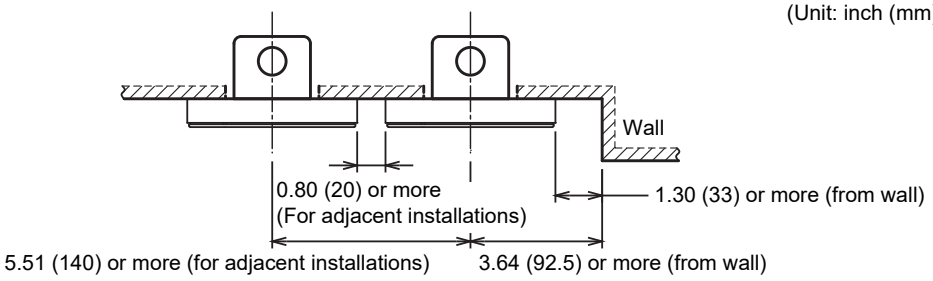


Installation dimensions for multiple remote controllers

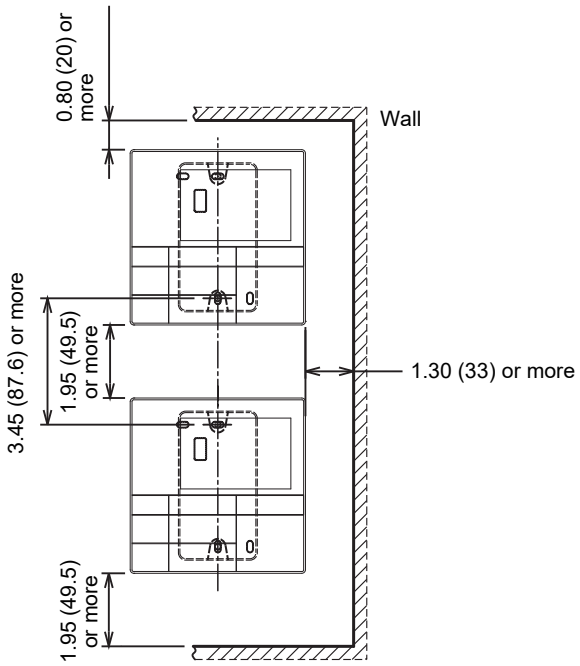
When installing a remote controller on a wall, follow the installation method in figure 1, figure 2.

(Figure 1)

(Unit: inch (mm))



(Figure 2)



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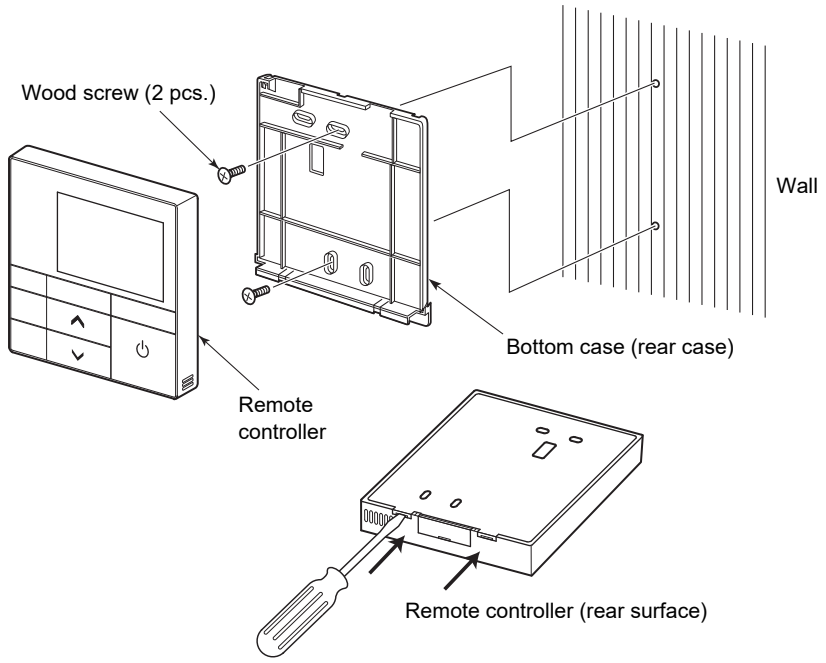
■ How to install on a wall

NOTE

- Avoid bundling the remote controller wiring with power wires or putting the wiring in the same metal conduits, which can cause malfunctions.
- Install the remote controller away from sources that generate electronic noise.



1 **Insert a flat head screw driver or the like under the 2 hooks on the bottom of the bottom case (rear case) of the remote controller to remove the bottom case.**

2 **Use the supplied wood screws (2 pcs.) to secure the bottom case of the remote controller.**

⚠ CAUTION

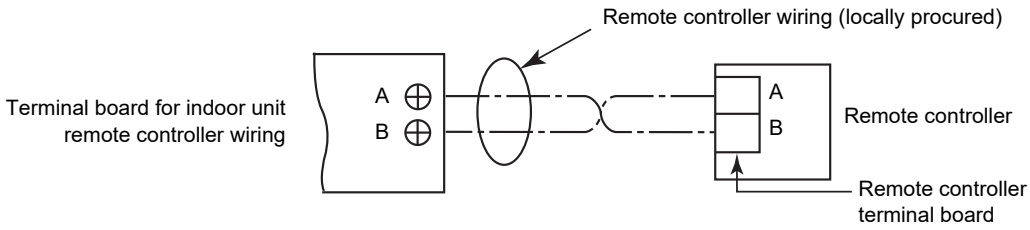
Do not use an electric screwdriver.
Be careful to not over-tighten the screws. (Torque up to 1.5 ft·lbs) The bottom case could break.

3 **Connect the wires from the indoor unit to the terminal block of the remote controller.**
For connection, refer to <Connection diagram>. (Page 8)

⚠ CAUTION

Wire the remote controller after checking the connector numbers of the indoor unit to prevent miswiring. (Applying AC208 - 240 V causes damage.)

■ Connection diagram



* AWG20 to AWG14 (0.5 mm² to 2.0 mm²).
* Crimped terminals cannot be used.

NOTE

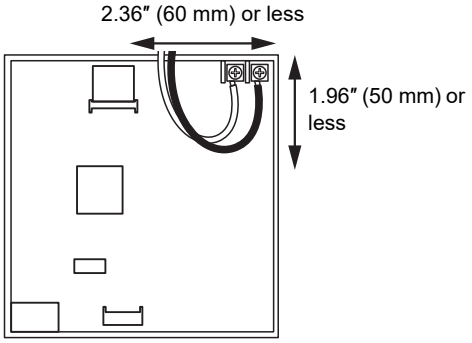
Wires A and B have no polarity.

⚠ CAUTION

Do not leave the excess remote controller wiring inside the remote controller case but instead bring it outside the case. Peel off the sheath (outer skin) of wires inside the remote controller case. Excess wires may compress parts inside the product and damage the remote controller body (including the LCD).

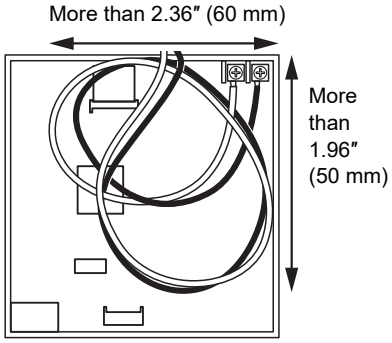
Proper wiring example 1

- Not coiled
- Not excessively slack
- The sheath (outer skin) of wires inside the remote controller case is completely peeled off.



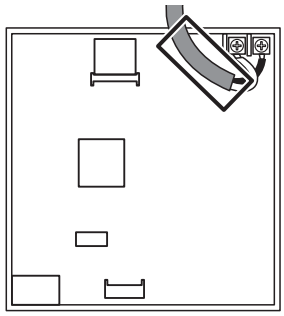
Improper wiring example 1

- Overlapped
- Excessively slack



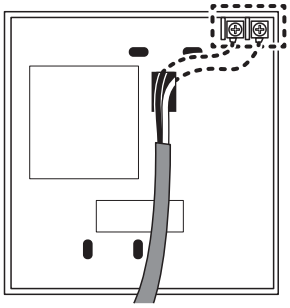
Improper wiring example 2

- The sheath (outer skin) of wires inside the remote controller case is not completely peeled off.



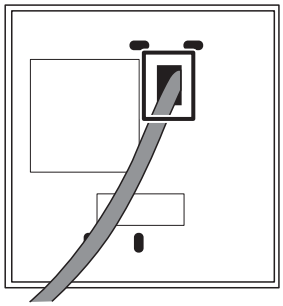
Proper wiring example 2

- Not coiled
- Not excessively slack
- The sheath (outer skin) of wires inside the remote controller case is completely peeled off.



Improper wiring example 3

- The sheath (outer skin) of wires inside the remote controller case is not completely peeled off.



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■ Installing 2 remote controllers

1 or multiple units can be controlled by using 2 remote controllers. (Up to 2 remote control can be installed.)

NOTE

- Set one of the 2 installed remote controllers as the “Follower remote controller”. (They are set to “Header remote controller” as the factory default setting.)
- If you are installing 2 remote controllers, one of which is a Wired remote controller (RBC-AWSU52-UL), set the Wired remote controller (RBC-AWSU52-UL) as the “Header remote controller” and the other remote controller as the “Follower remote controller”.

How to set follower remote controller

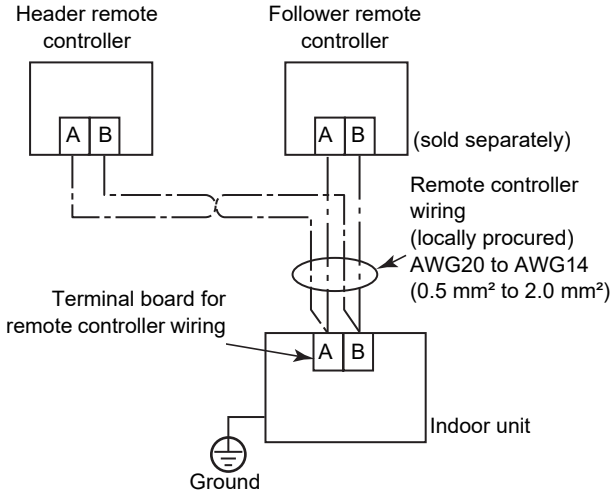
Set it in “Header/Follower” under “Initial setting” in “Menu”. (Page 19)

Standard wiring diagram

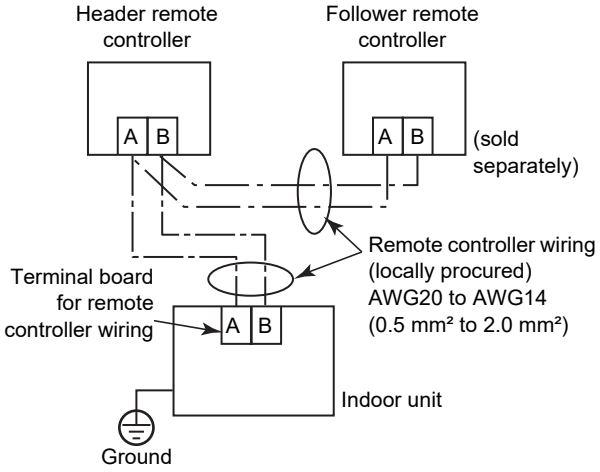
NOTE

Wires A and B have no polarity.

When Installing 2 remote controllers to operate 1 indoor unit

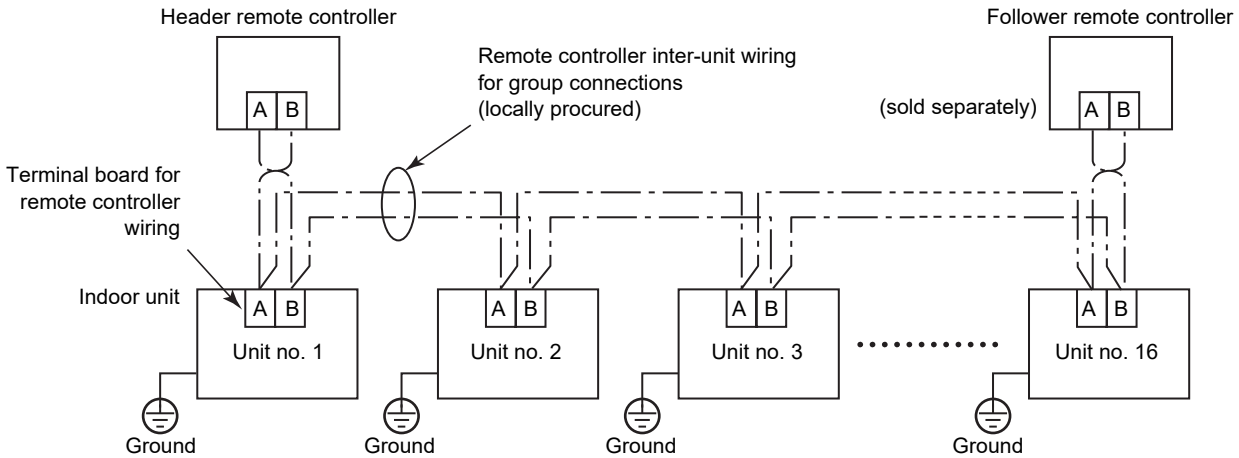


When branching from the “Header remote controller”



When installing 2 remote controllers to operate indoor units in a group connection

* “Header remote controller” and “Follower remote controller” operate when connected to either of the indoor units.



■ For group connections

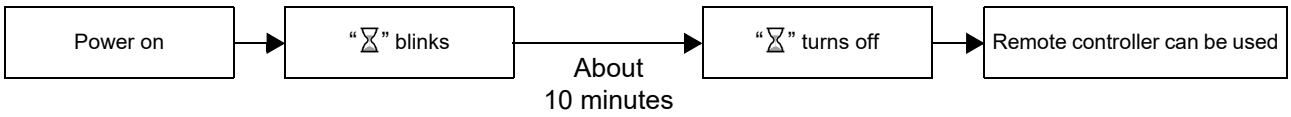
- When configuring a group connection consisting of indoor units of 4-way air discharge type (including compact type) and indoor units of other type (including air to air heat exchanger), set the 4-way ceiling cassette type indoor unit as the header. Otherwise, the “Individual louver” and some other settings cannot be performed.
- When configuring a group connection consisting of indoor units with auto grille function and other types of indoor unit, set an indoor unit with auto grille function as the header. Otherwise, the “Auto grille” cannot be performed.

■ First time use

When the unit is used for the first time, it takes a while for the remote controller to recognize operation input after the power is turned on. This is not a malfunction.

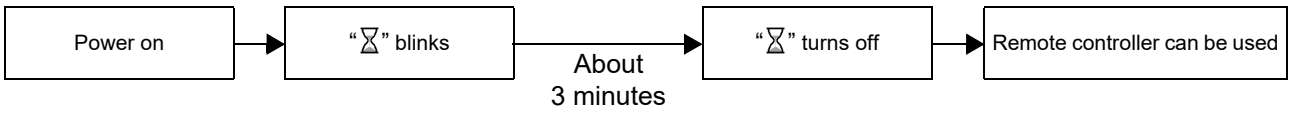
▼ Turning on the power the first time after installation

It takes approximately 10 minutes until you can operate the remote controller.



▼ Turning on the power from the 2nd time onward

It takes approximately 3 minutes until you can operate the remote controller.



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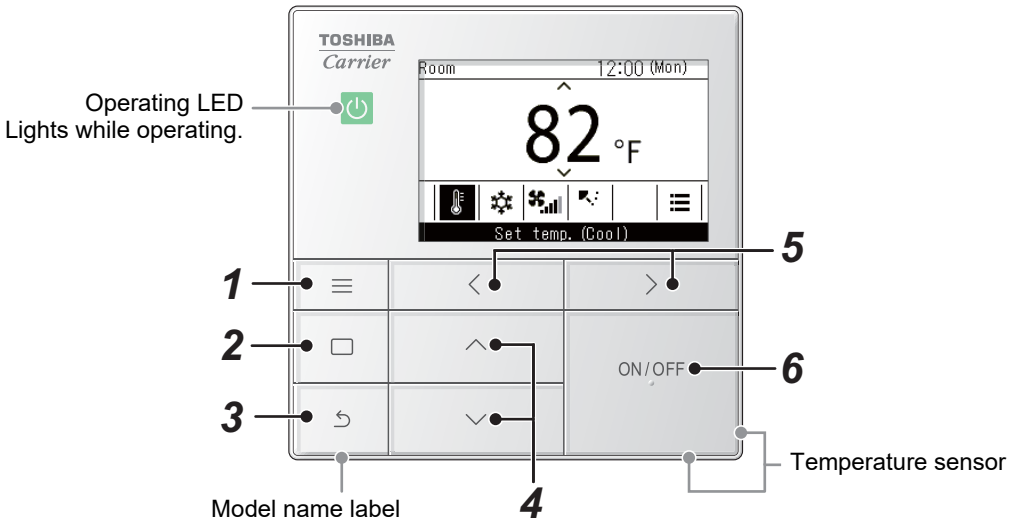
5 Part names and functions



* The screens shown here are examples. The content that is displayed may differ, depending on the environment settings being used.

1 **[Menu] button**
Shows the “Menu”.

2 **[Set/Fix] button**
Fixes and applies settings.
Ways to use it are shown on screen.

3 **[Return] button**
Deletes selections.
Ways to use it are shown on screen.

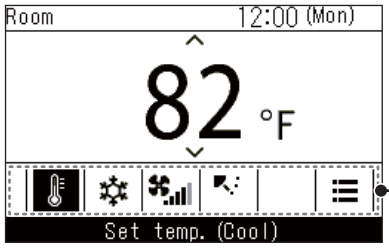
4 **[ ] and [ ] buttons**
Changes settings and selects items.

5 **[ ] and [ ] buttons**
Selects setting items.
Other ways to use it are shown on screen.

6 **[ON/OFF ON/OFF] button**
Starts and stops connected devices.

■ Air conditioner main screen

This screen is for confirming or changing settings that are used every day, such as temperature, operating mode, air flow volume and wind direction.
You can check the current state according to the setting items on the bottom of the screen.
You can switch the setting items by pressing [〈] and [〉], and change them by pressing [∧] and [∨].



Setting items
- The currently selected item is highlighted in black.
- You can switch the items by pressing [〈] and [〉].

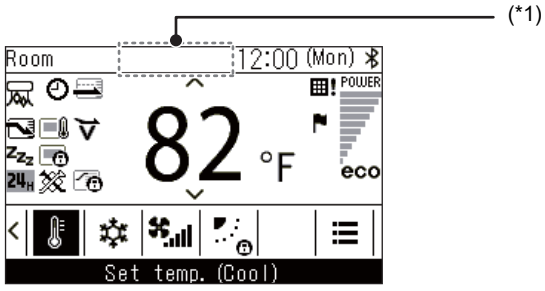
NOTE

- The temperature setting is changed in the main screen.
- Functions and items that cannot be set are not shown, according to the model.
- While changing settings, if you press [⮌ Return] or if there are no button operations for about 60 seconds, the main screen returns.

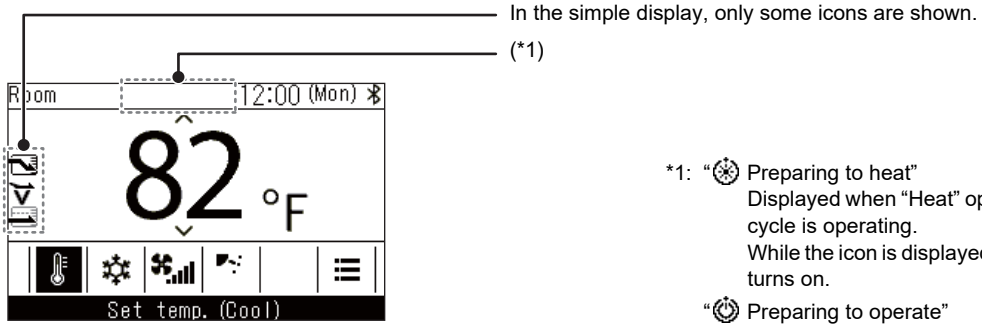
Switching between the detailed display and simple display (air conditioner main screen only)

You can change the main screen to the simple display, depending on the “Display mode” setting. For switching between the detailed display and the simple display, refer to <Display setting>. (Page 15)
The detailed display is set as the factory default setting.

Detailed display (factory default setting)



Simple display



*1: “ Preparing to heat”
Displayed when “Heat” operation starts or when the defrost cycle is operating.
While the icon is displayed, the indoor fan stops or the “Fan” turns on.

“ Preparing to operate”
This may be displayed on some models.

“ Preparing to operate ventilation”
Displayed while the air to air heat exchanger is on standby.
While this is being displayed, the air to air heat exchanger remains stopped.

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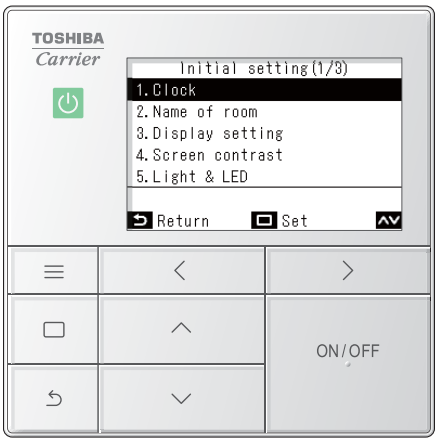
6 Initial setting



1 **Press [Menu] to open the “Menu”**

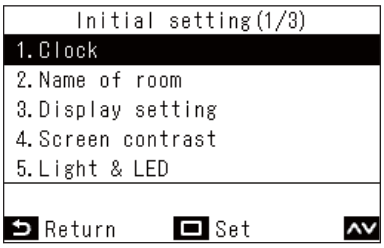
2 **In “Menu”, select “Initial setting”, and press [Set/Fix]**

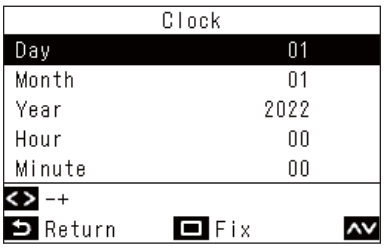
3 **Press [ ] and [ ] to select an item**

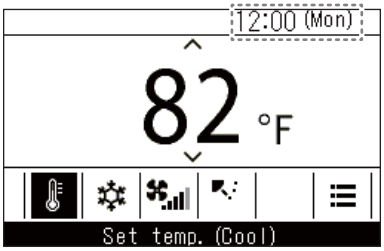
4 **Press [Set/Fix]**

■1. Clock

You can set the year, month, date, and time.







1 **In the “Initial setting” screen, press [ ] and [ ] to select “Clock”, and then press [Set/Fix]**

2 **Press [ ] and [ ] to change the year, month, date, and time**

→ Press [ ] and [ ] to switch to an item you want to change.

3 **Press [Set/Fix]**

→ Return to the “Initial setting” screen.

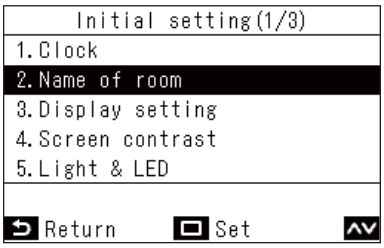
When the settings are complete, the time and day appear in the top right of the main screen.

NOTE

- Use the same procedure to change a “Clock” that has been set.
- The year, month, and date can be set from January 1, 2022 to December 31, 2099.
- The clock display flashes if the clock data is lost, such as due to a blackout. If a blackout happens, the time is maintained for about 3 days.
- The clock accuracy is an average monthly deviation of +/- 60 seconds.

■2. Name of room (Set the name of the location that the remote controller is installed)

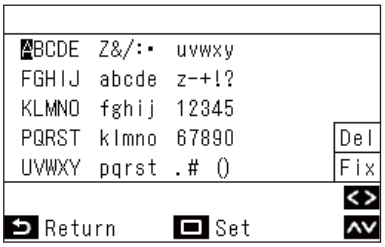
You can set the name of the location that the remote controller is installed. (The air conditioner can be operated even if this is not set.)



1 **In the “Initial setting” screen, press [∧] and [∨] to select “Name of room”, and then press [▭ Set/Fix]**

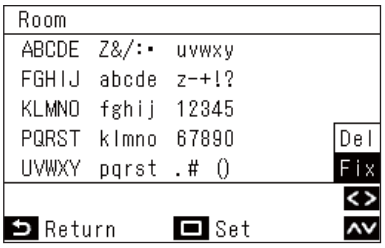
2 **Set the name of the remote controller**

(1)



You can input numbers and letters in screen (1).
→ Press [∧], [∨], [<], and [>] to move the black highlight to the desired character, and then press [▭ Set/Fix] to display the character at the top of the screen.

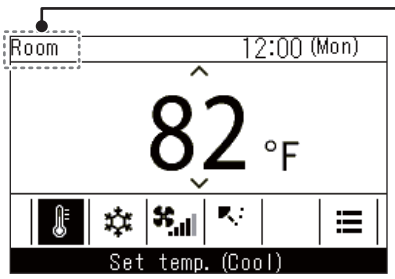
(2)



Up to 16 one-byte characters can be entered for “Name of room”.

When you want to delete a character, select “Del”, and then press [▭ Set/Fix] to delete a character.

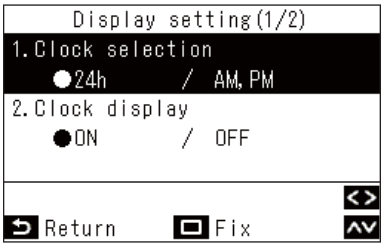
When you want to fix the name of the remote controller, select “Fix” and press [▭ Set/Fix] to fix the name of the remote controller.

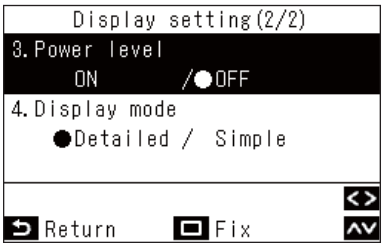


Name is displayed here.

EN

■3. Display setting





1 **In the “Initial setting” screen, press [∧] and [∨] to select “Display setting”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select an item**

You can set the items that are black highlighted in the display.

→ Press [<] and [>] to switch to the setting you want.

3 **After setting each item, press [▭ Set/Fix]**

→ The changes are fixed.

Clock selection

You can set the clock display in “Clock selection”. (Factory default setting: “24h”)

→ If you select “24h”, a 24-hour system is used (13:15, etc.), and if you select “AM, PM”, a 12-hour system is used (01:15PM, etc.).

Clock display

You can delete the clock display in “Clock display”. (Factory default setting: “ON”)

→ Selecting “OFF” removes the clock display from the main screen.

Power level

By selecting “OFF” in “Power level”, you can set the main screen and “Monitor” screen to not display operating power levels, or flags when set temperatures are met. (Factory default setting: “OFF”)

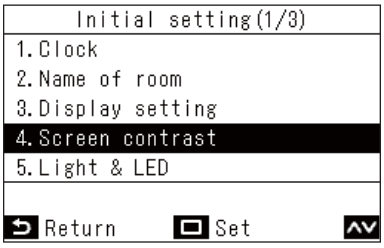
Display mode

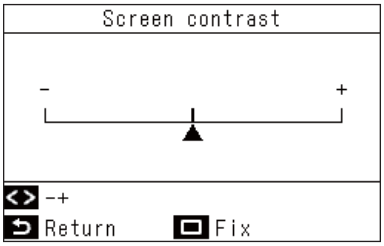
Selecting “Simple” in “Display mode” changes the main screen to the simple display. (Factory default setting: “Detailed”)

→ For details about each screen, refer to <Air conditioner main screen>. (Page 12)

■4. Screen contrast

You can adjust the contrast of the LCD.





1 **In the “Initial setting” screen, press [∧] and [∨] to select “Screen contrast”, and then press [▭ Set/Fix]**

2 **Press [<] and [>] to select the value you want to change**

3 **Press [▭ Set/Fix]**

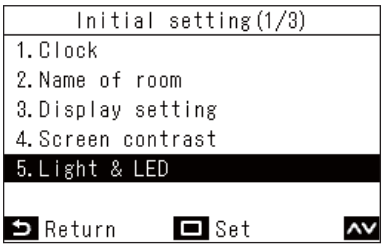
→ Return to the “Initial setting” screen.

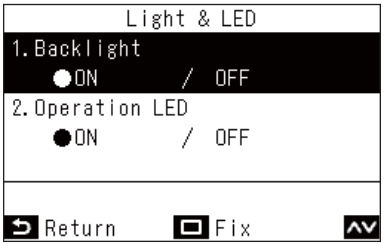
NOTE

It is set to the central value as the factory default setting.

■5. Light & LED

Select whether to enable lighting of the operating LED and the backlight of the LCD.





1 **In the “Initial setting” screen, press [∧] and [∨] to select “Light & LED”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select the item you want to change**

3 **Press [<] and [>] to select “ON” or “OFF”**

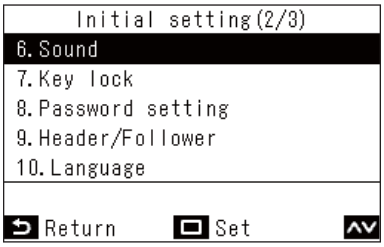
4 **Press [▭ Set/Fix]**
→ Return to the “Initial setting” screen.

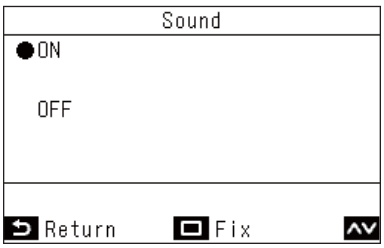
NOTE

They are set to “ON” as the factory default setting.

■6. Sound

You can set the sound of button operations on the remote controller.





1 **In the “Initial setting” screen, press [∧] and [∨] to select “Sound”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select “ON” or “OFF”**

3 **Press [▭ Set/Fix]**
→ Return to the “Initial setting” screen.

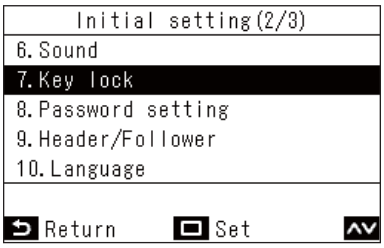
NOTE

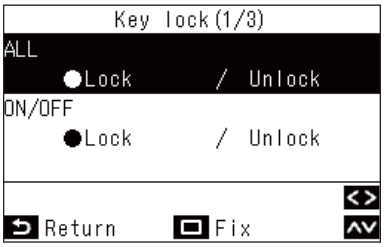
- There are no sounds when doing operations on the “Menu”.
- They are set to “ON” as the factory default setting.

EN

■7. Key lock (Select operations to lock)

You can select operations to lock by using operation lock. (For operation lock, refer to the Owner's Manual.)





1 **In the "Initial setting" screen, press [∧] and [∨] to select "Key lock", and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select the item you want to change**

3 **Press [<] and [>] to select "Lock" or "Unlock"**

4 **Press [▭ Set/Fix]**

→ Return to the "Initial setting" screen.

→ To lock operations, in the main screen, press and hold [⮌ Return] for more than 4 seconds.

NOTE

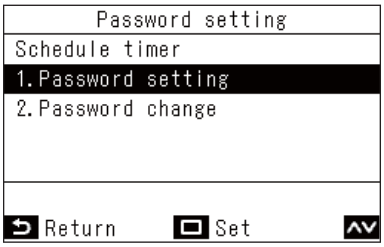
- They are set to "Lock" as the factory default setting.
- When check codes are displayed, all the operation locks are released.

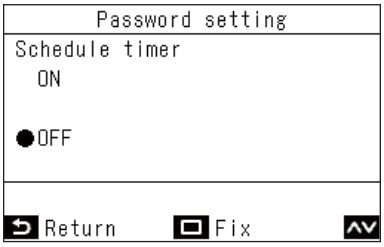
- If you select "Lock" for "ALL", then all operation items are locked, regardless of other item selections.
- Even if you select "Unlock" for "ALL", the operation of "Wind direction" and [☰ Menu] are locked.
- If you select "Unlock" for "ALL", then the operations for which "Lock" is selected in "Wind direction" and [☰ Menu], as well as "ON/OFF", "Set temp.", "Mode", and "Fan Speed", are locked.

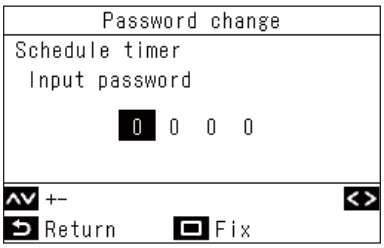
Setting items	Setting	Locked operation						
		ON/OFF	Set temp.	Mode	Fan Speed	Wind direction	Menu	Other setting
ALL	Lock	✓	✓	✓	✓	✓	✓	✓
	Unlock					✓	✓	✓
ON/OFF	Lock	✓				✓	✓	✓
Set temp.	Lock		✓			✓	✓	✓
Mode	Lock			✓		✓	✓	✓
Fan Speed	Lock				✓	✓	✓	✓

■8. Password setting

You can set an administrator password for functions of the “Schedule timer” and “Night operation”.
You can select “ON” or “OFF” the administrator password and change the administrator password.







1 **In the “Initial setting” screen, press [∧] and [∨] to select “Password setting”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select the functions for which you want to set a password, and then press [▭ Set/Fix]**
→ If the password is set to “OFF”, do the procedure subsequent to step ***4***.

3 **Input the current password by pressing [∧] and [∨] to select numbers, and by pressing [〈] and [〉] to select input positions, and then press [▭ Set/Fix]**

4 **Press [∧] and [∨] to select the item you want to set, and then press [▭ Set/Fix]**
→ To select “ON” or “OFF” the administrator password, select “Password setting” and perform step ***5***.
→ To change the administrator password, select “Password change” and perform step ***6***.

5 **Press [∧] and [∨] to select “ON” or “OFF”, and the press [▭ Set/Fix]**
→ Return to the step ***4***.

6 **Press [∧] or [∨] and [〈] or [〉] to input the changed password, and then press [▭ Set/Fix]**
→ Return to the step ***4***.

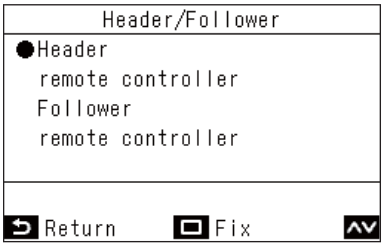
NOTE

- You can individually set “ON” or “OFF” for the passwords for “Schedule timer” and “Night operation”. You can also set different numbers for a password.
- All of the initial passwords are “OFF” and set to “1111”.

EN

■9. Header/Follower (Settings required to use 2 remote controllers to do operations)

When using 2 remote controllers, you need to set “Header remote controller” and “Follower remote controller”.



1 **In the “Initial setting” screen, press [∧] and [∨] to select “Header/Follower”, and then press [▭ Set/Fix]**

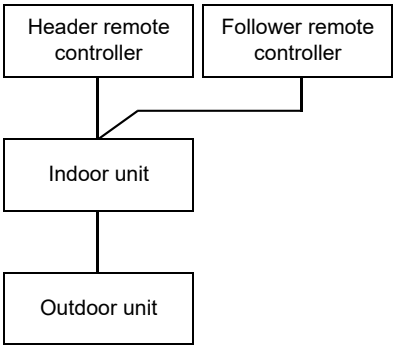
2 **Press [∧] and [∨] to select “Header remote controller” or “Follower remote controller”**

3 **Press [▭ Set/Fix]**

→ When “⧖” appears, return to the “Initial setting” screen.

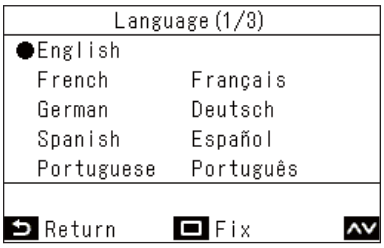
NOTE

- When using 2 remote controllers, be sure to use the RBC-AWSU52-UL as the “Header remote controller”.
- If you are using a pair of RBC-AWSU52-UL 1 can be used as the “Follower remote controller”.
- The following settings cannot be done on a “Follower remote controller”. “Schedule timer”, “On timer”, “Off timer”, “Off reminder timer”, “Night operation”, “Energy saving operation”, “Return back”, and “Saving operation”, “Power consumption”, “Reset Power Consumption data”
- When 2 remote controllers are used, the most recent operations are enabled.
- They are set to “Header remote controller” as the factory default setting. If “Header/Follower” is not done correctly, then the check code “E01”, “E03”, or “E09” is displayed.



■10.Language (Changing the on-screen language)

Set the language to display on screen.



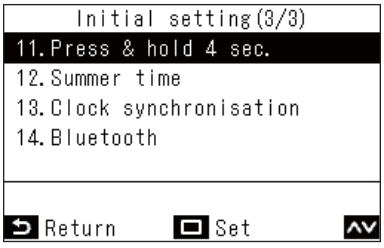
1 **In the “Initial setting” screen, press [∧] and [∨] to select “Language”, and then press [▭ Set/Fix]**

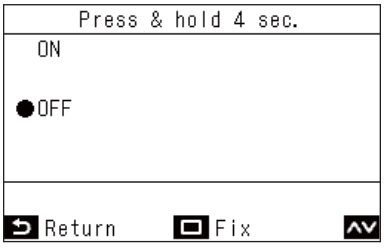
2 **Press [∧] and [∨] to select your desired language**

3 **Press [▭ Set/Fix]**

■11.Press & hold 4 sec. (Settings that require the button to be held down for at least 4 seconds to operate)

This function prevents erroneous operations. You can select “ON” or “OFF” for the settings.
“ON”: You can do operations by holding down the [ON/OFF ON/OFF] button for at least 4 seconds.
“OFF”: You can operate the [ON/OFF ON/OFF] button as normal.





1 **In the “Initial setting” screen, press [∧] and [∨] to select “Press & hold 4 sec.”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select “ON” or “OFF”**

3 **Press [▭ Set/Fix]**
→ Return to the “Initial setting” screen.

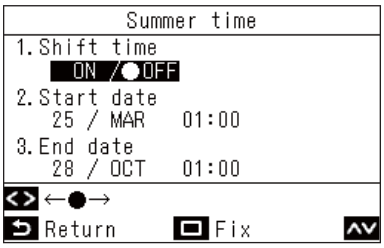
NOTE

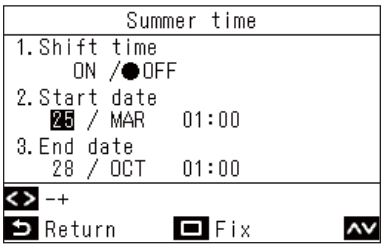
They are set to “OFF” as the factory default setting.

EN

■12.Summer time

Set summer time (Daylight saving time).





1 **In the “Initial setting” screen, press [∧] and [∨] to select “Summer time”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select “Shift time”**

3 **Press [〈] to select “ON”**
→ If you select “OFF”, the setting is not done.

4 **Press [∧] and [∨] to change “Start date” and “End date”**

5 **Press [〈] and [〉] to change the month, date, and time**

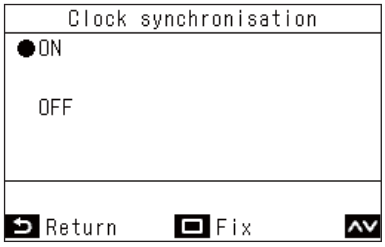
6 **Press [▭ Set/Fix]**
→ Return to the “Initial setting” screen.

NOTE

- With “Shift time” set to “ON”, when the time set in “Start date” comes the remote controller’s internal clock advances an hour. When the “End date” is reached, the clock returns to its original time.
- If summer time is “ON”, then the following scheduled operations are executed after the shift at the times set.
  “Schedule timer”, “Night operation”, and “Energy saving operation”
  Scheduled operations set to occur during the 1 hour shift caused by “Start date” are not executed.
- The operating times of the following functions are not affected by the time change caused by summer time.
  “Off timer”, “On timer”, “Off reminder timer”, “Return back”, “Occupancy sensor”, “Rotation backup”
- When “Clock synchronisation” is set to “ON”, then “Summer time” cannot be set.

■13.Clock synchronisation (Set whether to synchronize times with the central control device)

(Only specifications of targeted central control devices)
You can set whether to synchronize the year, month, date, and time with the central control device.



1 **In the “Initial setting” screen, press [∧] and [∨] to select “Clock synchronisation”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select “ON” or “OFF”**

3 **Press [▭ Set/Fix]**

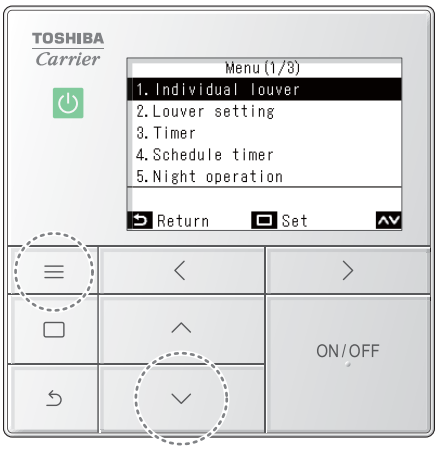
NOTE

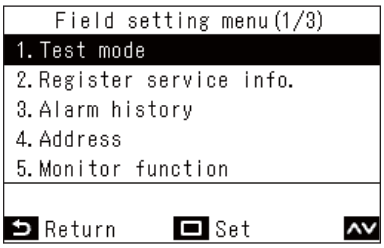
They are set to “ON” (synchronize clocks) as the factory default setting.

■14.Bluetooth

Refer to Bluetooth® function Owner’s Manual.

7 Field setting menu





1 **Press [Menu] to open the "Menu"**

2 **Press and hold [Menu] and [ ] at the same time to open "Field setting menu"**
→ Press and hold 4 seconds.

3 **Press [ ] and [ ] to select an item**

4 **Press [Set/Fix]**
→ The setting screen opens.

Item	Description
1. Test mode	Does test operations after installation. (Page 23)
2. Register service info.	Registers contact for repairs, and model names and serial numbers of indoor units and outdoor units. (Page 25)
3. Alarm history	Displays the last 10 check codes, and when and at which unit they occurred, as the history of check codes. (Page 29)
4. Address	Check addresses and manually set addresses. (Page 30)
5. Monitor function	Monitoring data of sensor temperature, rotating speed of the compressor or other factor. (Page 34)
6. Setting louver position	Disables operation to fix position to stop louvres when swing stops and shows louvres' up-down display as right-left display on the main screen. (Page 34)
7. Setting timer operation mode	Settings can be done to you can select operation mode during "Schedule timer". (Page 35)
8. Easy I.DN setting	Sets various functions related to air conditioners. (Page 36)
9. DN setting	Advanced settings using DN codes. (Page 37)
10. Reset Power Consumption data	Resetting the power consumption data saved in the remote controller.
11. Notice history	Displays the last 10 notice codes, and when and at which unit they occurred, as the history of notice codes. (Page 38)
12. Rotation backup	Sets rotation backup operations for light commercial models using group connections. (Page 39)
13. LC Easy monitor	Check data, such as the sensor temperature on light commercial models. (Page 40)
14. Indoor unit operation	Forces operation of drain pump, fan / louvres of indoor units to check operations. (Page 41)

EN

■1. Test mode

Does test operations after installation of air conditioners.

Before test operation

- Before turning on the power, do the following.
  1) Confirm that the resistance between the terminal block of the power supply and the earth is more than 1 MΩ using a 500-V megohmmeter.
     If resistance of less than 1 MΩ is detected, do not run the unit.
  2) Check that all of the outdoor unit valves are opened fully.
- To protect the compressor at activation time, turn on the power for 12 hours or more before doing a test operation.
- Before doing a test operation, remove the protective sheet that was applied to the remote controller as the factory default setting.

Execute test operation

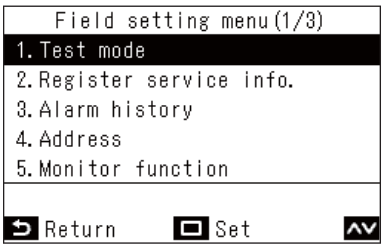
Use the remote controller to check operations. For the operation procedures, refer to the Owner's Manual provided. You can do forced operations by using the test mode function in the following procedure, under conditions that the thermostat is off.

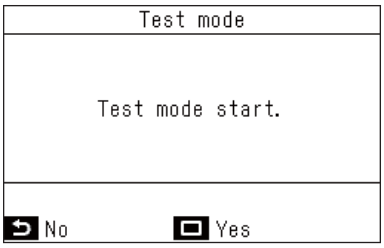
This test mode function will automatically stop after 60 minutes, to prevent continuous forced operation, and do normal operation (operation according to set temperature).

* Thermostat off: When the temperature of the room reaches the set temperature, the compressor of the outdoor unit stops, and operation switches from "Cool" or "Heat" to "Fan". The indoor unit is operating, but the outdoor unit repeatedly turns on/off in response to the room temperature.

⚠ CAUTION

- This test mode function does forced operation that ignores the set temperature, so be aware of the room temperature and be sure to do a stop / end operation when your work is finished.
- This test mode function puts a higher than normal load on the equipment, so only use it for inspections and to check operations.

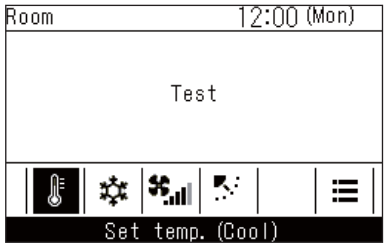




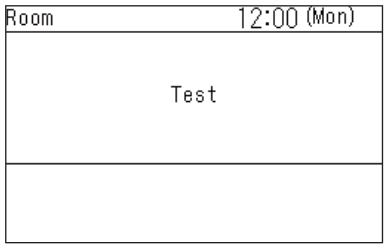
1 **In the "Field setting menu" screen, press [∧] and [∨] to select "Test mode", and then press [▭ Set/Fix]**

→ Test mode is set, and returns to the "Field setting menu" screen. Press the [⮌ Return] button 2 times, to open screen (2).

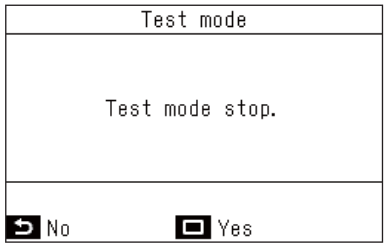
(1)



(2)



(3)



2 **Press [ON/OFF ON/OFF]**

→ Operation starts, and in test mode screen (1) opens. (While stopped, it is screen (2))

→ Test mode is done while the operating mode is set to "Cool" or "Heat".

→ The temperature cannot be set in test mode.

→ Check codes are displayed in the normal way.

3 **After completing test mode, in the "Field setting menu" screen, press [∧] and [∨] to select "Test mode", and then press [▭ Set/Fix]**

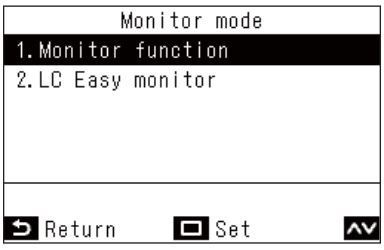
→ Screen (3) appears.

→ Press [▭ Set/Fix] to end test mode and do normal operation.

NOTE

Test mode ends 60 minutes after test mode was started, and the main screen returns.

Use Monitor function in the Test mode screen



1 **In the "Test mode" screen, press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select "Monitor function" or "LC Easy monitor", and the press [▭ Set/Fix]**

NOTE

- "Monitor function" can display the values for 1 item at a time, such as sensor temperatures. (Page 34)
  "LC Easy monitor" displays summaries of values, such as the sensor temperatures of light commercial models. (Page 40)
  (Cannot be used for VRF models.)
- In a group connection, after a selection in the unit selection screen, the Monitor screen opens. Refer to the pages that describe the various function for how to use the monitor functions.

EN

■2. Register service info.

Registers contact for servicing, and model names and serial numbers of indoor units and outdoor units.

- Automatically read from indoor units and outdoor units, but manual input is required for some products.
- Input the phone number of contact to be displayed in “Service information” in “Information” on the “Menu”.
- Input the model name and serial number to be displayed in “Model information” in “Information” on the “Menu”.

1 **In the “Field setting menu” screen, press [∧] and [∨] to select “Register service info.”**

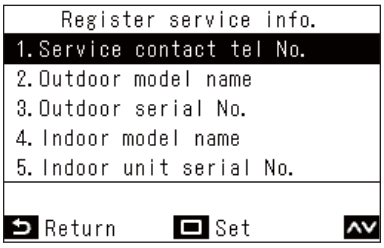
2 **Press [▭ Set/Fix]**

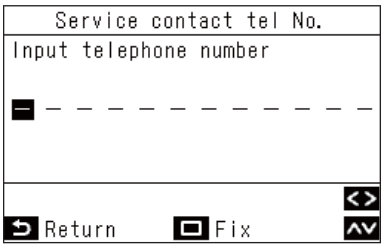
→ The setting screen opens for registering information.

3 **Press [∧] and [∨] to select items to input, and then press [▭ Set/Fix]**

Item	Description
1. Service contact tel No.	Enter phone number of the contact.
2. Outdoor model name	Enter / reset the model name of the outdoor unit.
3. Outdoor serial No.	Enter / reset the serial number of the outdoor unit.
4. Indoor model name	Enter / reset the model name of the indoor unit.
5. Indoor unit serial No.	Enter / reset the serial number of the indoor unit.

Inputting a contact





1 **In the “Register service info.” screen, press [∧] and [∨] to select “Service contact tel No.”, and then press [▭ Set/Fix]**

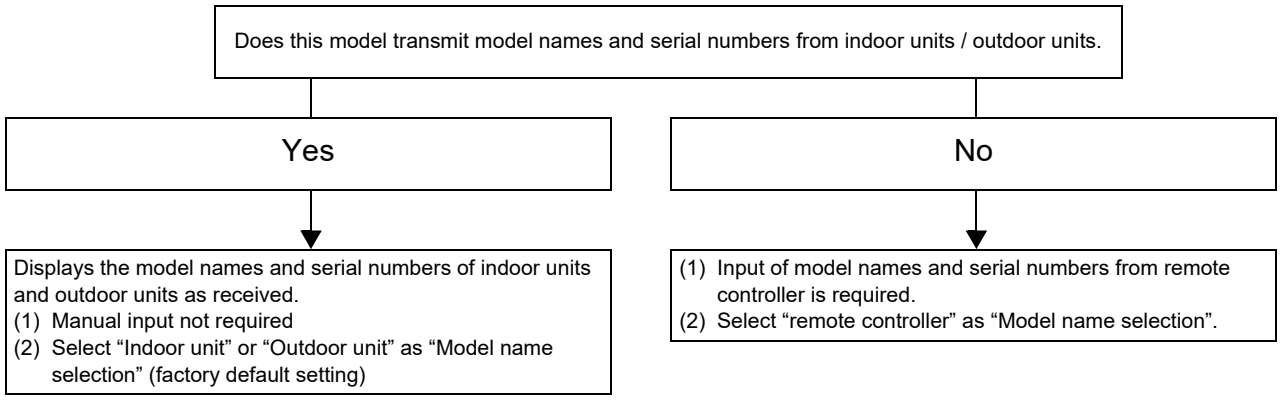
2 **Setting a contact**

Press [∧] and [∨] to select a number, and [<] and [>] to select the entry point.
After entering the phone number, press [▭ Set/Fix].

Inputting model names and serial numbers

Target product	Model name and serial number display method
Light commercial indoor unit	Model name and serial number are displayed from data from the indoor unit (manual input is not needed).
VRF indoor unit	Model name and serial number are displayed from data from the indoor unit (manual input is not needed). Enter information manually for the indoor unit of large capacity air discharge type and duct types.
VRF outdoor unit	Model name and serial number are displayed from data from the outdoor unit (manual input is not needed).
Light commercial outdoor unit	Input of model names and serial numbers from the remote controller is required.
Service board	Input of model names and serial numbers from the remote controller is required (but, not required if manually input to the remote controller before replacement).

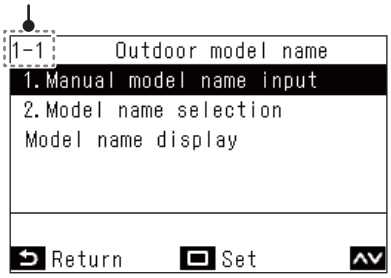
▼ Standard workflow

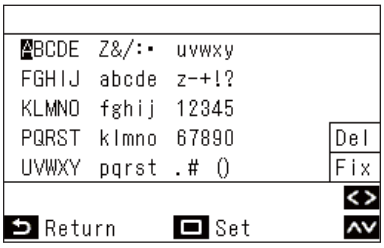


EN

Manually inputting model names and serial numbers

Shows the address of the selected system of indoor units.





1 **In the “Register service info.” screen, press [∧] and [∨] to select “Outdoor model name”, and then press [▭ Set/Fix]**

→ For the serial number of outdoor units, select “Outdoor serial No.”.

→ For the model name of indoor units, select “Indoor model name”.

→ For the serial number of indoor units, select “Indoor unit serial No.”.

2 **In the “Outdoor model name” screen, press [∧] and [∨] to select “Manual model name input”, and then press [▭ Set/Fix]**

→ For the serial number of outdoor units, select “Manual serial No. input”.

→ For the model name of indoor units, select “Manual model name input”.

→ For the serial number of indoor units, select “Manual serial No. input”.

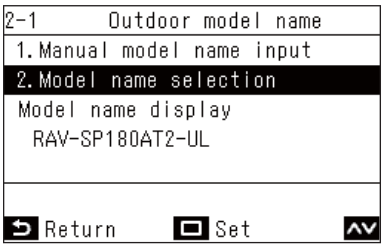
3 **Inputting outdoor unit model names**

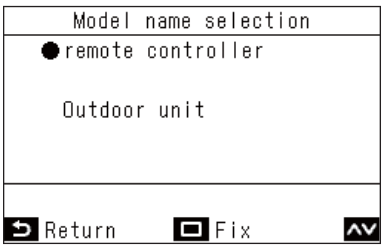
→ For the input method, refer to <Name of room (Set the name of the location that the remote controller is installed)>. (Page 14)

4 **By selecting “remote controller” in “Model name selection”, the manually input model name and serial number are displayed (Page 28)**

Selecting model name and serial number display

Displays the model names and serial numbers of outdoor units, indoor units, and remote controllers.





1 **In the “Outdoor model name” screen, press [∧] and [∨] to select “Model name selection”, and then press [▭ Set/Fix]**

→ For the serial number of outdoor units, select “Serial No. selection”.

→ For the model name of indoor units, select “Model name selection”.

→ For the serial number of indoor units, select “Serial No. selection”.

2 **In the “Model name selection” screen, press [∧] and [∨] to select an item**

→ Selecting “Outdoor unit” or “Indoor unit” displays the model names (serial numbers) of outdoor (indoor) units as received.

→ Selecting “remote controller” displays the manually input model name (serial number).

NOTE

“Outdoor unit” or “Indoor unit” is selected as the factory default setting.

3 **Press [▭ Set/Fix]**

→ Return to the “Outdoor model name” screen.

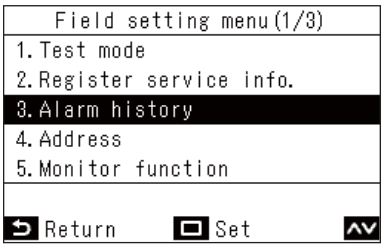
▼ Model name and serial number confirmation method

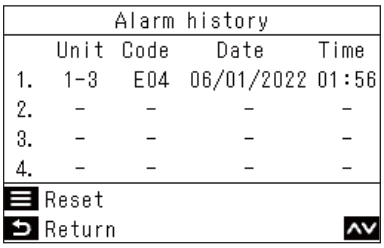
You can confirm the “Model name display” or “Serial No. display” in “Outdoor model name” and other various screens.

EN

■3. Alarm history

Displays the last 10 check codes, and at which unit and when they occurred.





1 **In the "Field setting menu" screen, press [∧] and [∨] to select "Alarm history", and then press [▭ Set/Fix]**

NOTE

- The check code history data shows a history of 10 occurrences. If the occurrences exceed 10, the oldest data is deleted.
- If the same check code occurs repeatedly, the date of the first occurrence is displayed.

Deleting check code history

1 **Press [☰ Menu] while the "Alarm history" screen is displayed**
→"Reset all alarm data." is displayed.

2 **Press [▭ Set/Fix]**

REQUIREMENT

If you are using 2 remote controllers, delete the history at each remote controller.

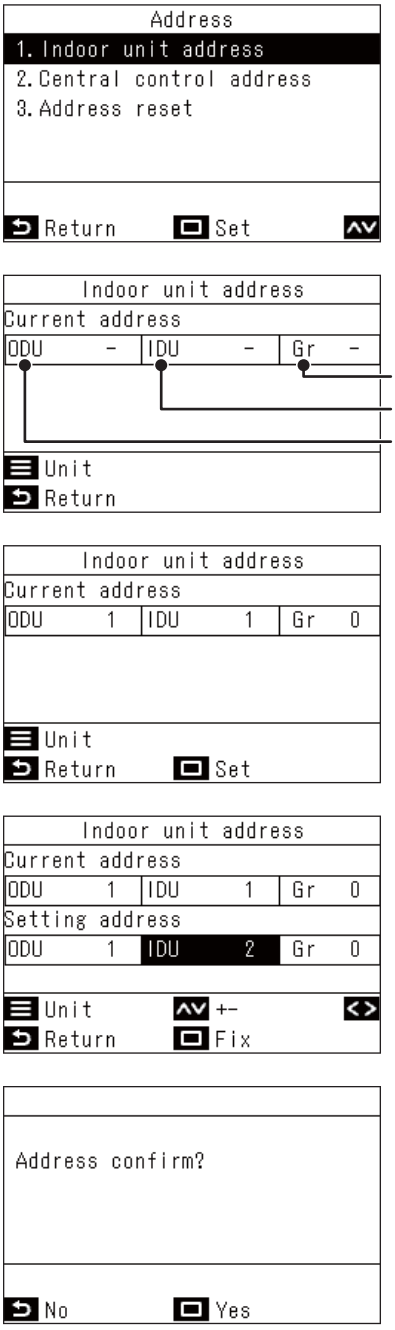
■4. Address

- Manually set the address of indoor units. When the power is turned on, addresses are set by automatic address setting, but the addresses may need to be changed on multi-unit systems.
- Show the line address, indoor address, and group address of indoor units on the remote controller, operate the fan and louvres of relevant indoor units to check the relationship of the addresses and the indoor units, and if needed manually change the addresses.

REQUIREMENT

Be sure to stop operation of the air conditioners.

Checking and setting addresses



1 **Select “Indoor unit address” from “Address” in the “Field setting menu”, and press [Set/Fix]**

→ At first, the fans and louvres of all indoor units in the group operate.

The address is indicated as “-”.

2 **Press [Menu]**

→ Each press of [Menu] displays in order: Entire group → Header unit → Follower unit 1 ...

→ The fans and louvres of the relevant indoor units operate.

3 **Manually select a unit to change, and press [Set/Fix]**

→ The screen for settings appears.

4 **Press [ ] and [ ] to move the black highlight, and then press [ ] and [ ] to set the address**

5 **After manually setting the addresses of all indoor units, press [Set/Fix]**

→ The message “Address confirm?” appears on screen.

6 **Press [Set/Fix]**

→ The changes are fixed.

→ “⌛” appears while data is changing.

EN

REQUIREMENT

For group connections

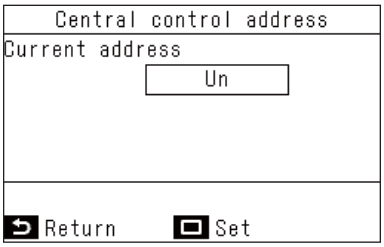
- When configuring a group connection consisting of indoor units of 4-way air discharge type (including compact type) and indoor units of other type (including air to air heat exchanger), set the 4-way air discharge type indoor unit as the header.
- When connecting an auto grille indoor unit in a group with some other indoor units, set the auto grille indoor unit as the header.

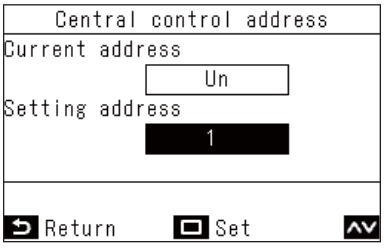
Central control address

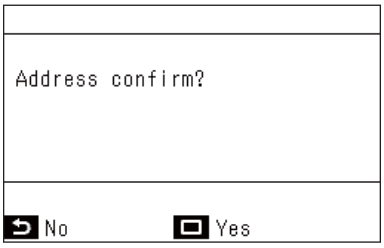
An address for central control must be set if you connect indoor units to a central control device. (For Light commercial models, the TCC-LINK adapter is required.)

REQUIREMENT

Be sure to stop operation of the air conditioners.







1 **Select “Central control address” from “Address” in the “Field setting menu”, and press [Set/Fix]**

→ The current address of the indoor unit is displayed.

NOTE

They are set to “Un” as the factory default setting.

2 **Press [Set/Fix], and press [ ] and [ ] to do the setting**

3 **Press [Set/Fix]**

→ The message “Address confirm?” appears on screen.

4 **Press [Set/Fix]**

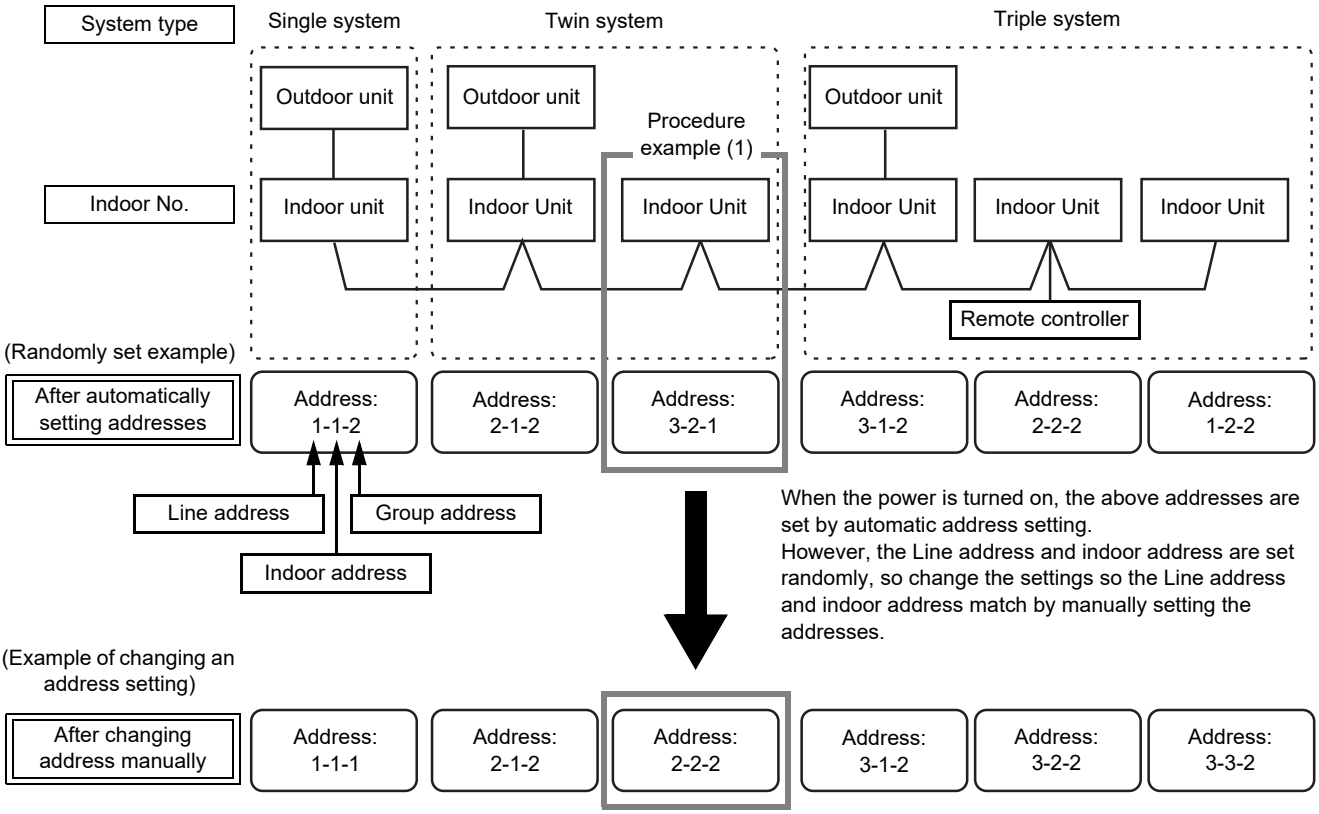
→ The changes are fixed.

→ “⌛” appears while data is changing.

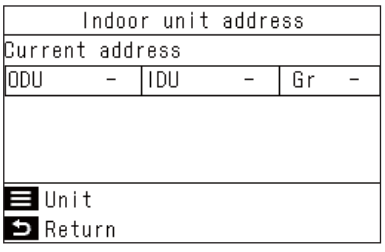
▼Procedure example (1) Procedure for manual address setting (group connection of multi-unit system)

REQUIREMENT

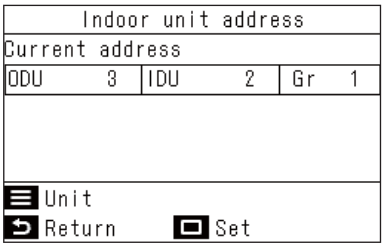
Be sure to stop operation of the air conditioners.



(1)



(2)



1 **Select “Indoor unit address” from “Address” in the “Field setting menu”, and press [Set/Fix]**

→ Screen (1) is displayed, the fans and louvres of all indoor units in the group operate.

2 **In screen (1), press [Menu]**

→ Each press of [Menu] displays in order: Entire group → Header unit → Follower unit 1 ...

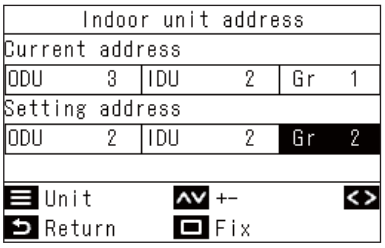
→ Screen (2) is displayed, the fans and louvres of the selected indoor units operate, the other units stop.

3 **In screen (2), select an indoor unit whose address is to be changed, and press [Set/Fix]**

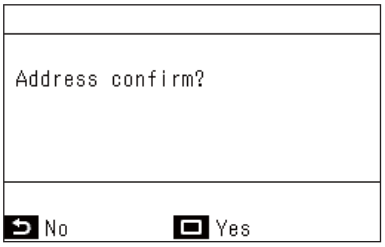
→ The screen for settings appears.

EN

(3)



(4)



4 **Press [〈] and [〉] to move the black highlight, and then press [∧] and [∨] to set the address (screen (3))**

→ With the same procedure, set “2” for the group address for indoor address “2”.

→ To change the addresses of other indoor units, press [☰ Menu] and then select and set them with the same procedure.

5 **After setting each address, press [▭ Set/Fix]**

→ The message “Address confirm?” appears on screen.

6 **Press [▭ Set/Fix]**

→ The changes are fixed.

→ “⧖” appears while data is changing.

NOTE

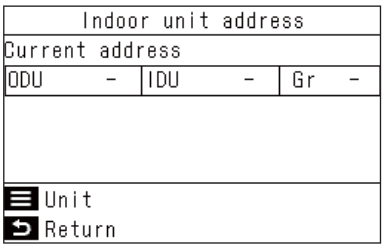
For details on setting header units and follower units for air conditioners, refer to the Installation Manual and Service manual of the indoor unit and outdoor unit.

▼ Procedure example (2) When you know the indoor unit no. and want to know the position of that indoor unit

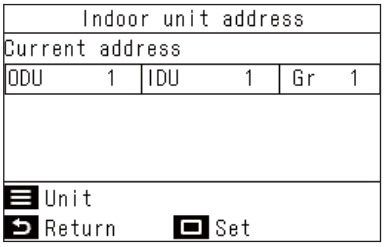
REQUIREMENT

Be sure to stop operation of the air conditioners.

(1)



(2)



1 **Select “Indoor unit address” from “Address” in the “Field setting menu”, and press [▭ Set/Fix]**

→ Screen (1) is displayed, the fans and louvres of all indoor units in the group operate.

→ The indoor unit that is operating is connected in a group.

2 **In screen (1), press [☰ Menu]**

→ Each press of [☰ Menu] displays in order: Entire group → Header unit → Follower unit 1 ...

3 **Check the position of the indoor unit**

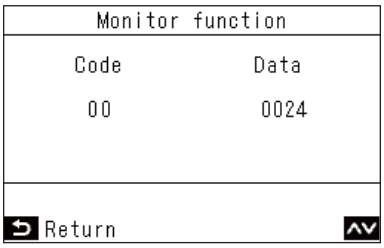
→ Screen (2) is displayed, the fans and louvres of the selected indoor units operate, the other units stop.

4 **After checking, press [⮌ Return]**

→ Return to the “Address” screen.

■5. Monitor function

Displays the codes and data indicating the operating condition and temperature of each sensor on the indoor units, outdoor units, and remote controllers.



1 **In the “Field setting menu” screen, press [∧] and [∨] to select “Monitor function”, and then press [▭ Set/Fix]**

→ Press [∧] and [∨] to change the code and then check the data.

→ In a group connection, after a selection in the unit selection screen, move to the “Monitor function” screen.

2 **Press [⮌ Return]**

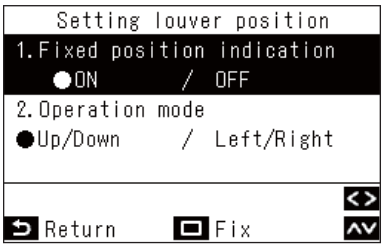
→ Return to the “Field setting menu” screen.

NOTE

- For details on codes and data, refer to the Installation Manual and Service manual of the indoor unit and outdoor unit.
- “Monitor function” display temperature values in “°C” (Celsius), even if “°F” (Fahrenheit) is selected in “Set temp. unit”.

■6. Setting louver position

You can change the displays for air blow direction and operation when swing of horizontal louvres is stopped.



1 **In the “Field setting menu” screen, press [∧] and [∨] to select “Setting louver position”, and then press [▭ Set/Fix]**

→ For models whose louvre positions cannot be set, “No function” is displayed.

2 **In the “Setting louver position” screen, press [∧] and [∨] to select an item**

You can set the items that are black highlighted in the display.

→ Press [〈] and [〉] to switch to the setting you want.

3 **After setting each item, press [▭ Set/Fix]**

→ The changes are fixed.

Fixed position indication

Change the louvre operation when swing is released by using “Fixed position indication”.

→ By selecting “ON”, when swing is released, the louvre stops as shown by the image displayed. (Factory default setting)

→ By selecting “OFF”, when swing is released, the position the louvre stops is shown by the image displayed.

Operation mode

Change the louvre operation direction display by using “Operation mode”.

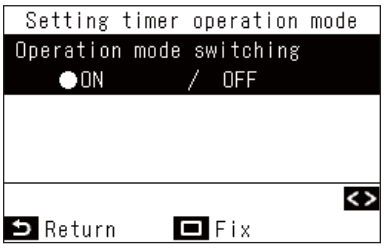
→ By selecting up / down blower, the louvre operation direction is shown by the image displayed. (Factory default setting)

→ By selecting left / right blower, the louvre operation direction is shown by the image displayed. This can be used on models whose louvres move left / right.

EN

■7. Setting timer operation mode

Set whether or not operating mode can be selected when “Schedule timer”.



1 **In the “Field setting menu” screen, press [∧] and [∨] to select “Setting timer operation mode”, and then press [▭ Set/Fix]**

→ Press [<] and [>] to switch to the setting you want.

2 **Press [▭ Set/Fix]**

→ The changes are fixed, and the “Field setting menu” screen returns.
Press [⮌ Return] to not fix the changes and return to the “Field setting menu” screen.

NOTE

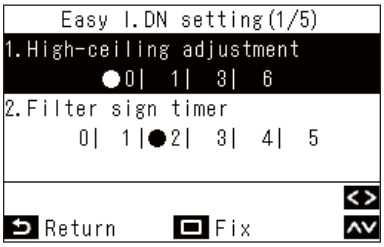
They are set to “OFF” as the factory default setting.

■8. Easy I.DN setting

Sets various functions related to air conditioners.

REQUIREMENT

Be sure to stop operation of the air conditioners.



1 **In the "Field setting menu" screen, press [∧] and [∨] to select "Easy I.DN setting", and then press [▭ Set/Fix]**

→ The fans and louvres of the indoor units operate.

When doing group connections:

→ The fans and louvres of the selected indoor units operate.

2 **Press [∧] and [∨] to select an item**

→ Press [〈] and [〉] to switch to the setting you want, or set a numerical value.

3 **After setting each item, press [▭ Set/Fix]**

→ The changes are fixed, and the "Field setting menu" screen returns.

→ "⧖" appears while data is changing.

When doing group connections:

→ After finishing "Easy I.DN setting" for each unit, press [▭ Set/Fix] to fix the changes and return to the unit selection screen. In the unit selection screen, press [⮌ Return] to briefly display "⧖", and then return to the "Field setting menu" screen.

Item	Description
1. High-ceiling adjustment	Sets the fan speed, such as for high-ceiling installations and for operations with high-performance filters. For selectable data, refer to the Installation Manual of the indoor unit.
2. Filter sign timer	The timing at which the filter check mark "▦!" appears can be changed according to the installation conditions. For selectable data, refer to the Installation Manual of the indoor unit.
3. Heating temp. shift	The temperature at which heat is detected can be changed so heating is more effective.
4. TA sensor selection	By selecting "Body", control can be done by the temperature of the room temperature sensor of the indoor unit. By selecting "RC", control can be done by the temperature of the temperature sensor on the remote controller.
5. External static pressure	Sets the external static pressure. For selectable data, refer to the Installation Manual of the indoor unit.
6. Automatic restart	Set "ON" to do automatic restart when a power outage occurs.
7. Set temp. unit	Select from "°C" (Celsius) or "°F" (Fahrenheit) as the units of temperature displayed on the remote controller.
8. Set temp. range	Units of "1°C" can be selected as the display for the set temperature. * The "°F" (Fahrenheit) display does not support units of "0.5°C".
9. Individual ventilation	Set "ON" to do individual ventilation.
10. Occupancy sensor	Set "ON" when the indoor unit is equipped with a occupancy sensor.
11. Virtical louver range	Set the range of swing motion of the vertical louver.
12. Auto mode setting	Set the optional functions when the operation mode is "Auto". 0: No function, 1: Prohibited, 2: Dual set point

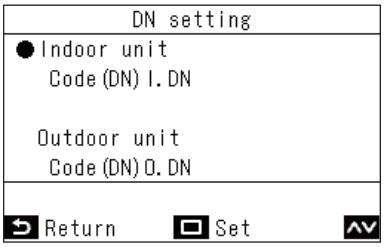
EN

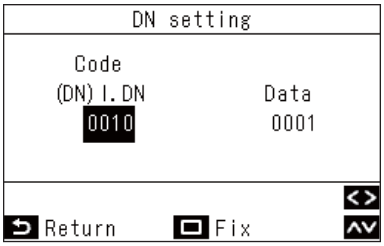
■9. DN setting

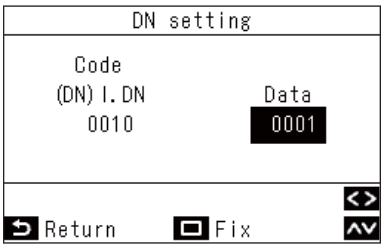
Detailed data of various models of air conditioner can be set.

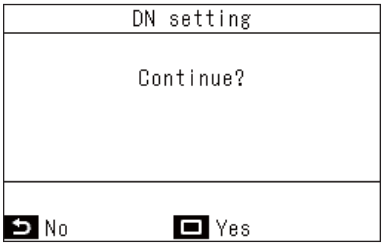
REQUIREMENT

Be sure to stop operation of the air conditioners.









1 **In the "Field setting menu" screen, press [∧] and [∨] to select "DN setting", and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select "Indoor unit" or "Outdoor unit", and the press [▭ Set/Fix]**

→ If "Indoor unit" was selected, the fans and louvres of the indoor units operate.

When doing group connections:

→ The fans and louvres of the selected indoor units operate.

3 **Press [<] to black highlight the code (DN), and then press [∧] and [∨] to set the code**

4 **Press [>] to black highlight the data, and then press [∧] and [∨] to set the data**

5 **After finishing setting the data of the code (DN), press [▭ Set/Fix]**

→ "Continue?" is displayed.

6 **To set the data of other codes (DN), press [▭ Set/Fix]**

To not do other settings, press [⮌ Return]

→ The changes are fixed, and the "Field setting menu" screen returns.

→ "⧖" appears while data is changing.

When doing group connections:

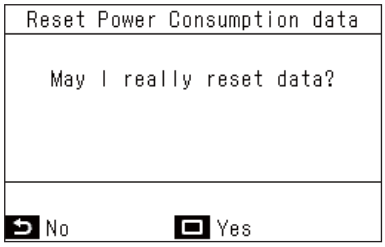
→ Press [⮌ Return] to open the unit selection screen. In the unit selection screen, press [⮌ Return] to briefly display "⧖", and then return to the "Field setting menu" screen.

NOTE

For details on codes and data to be set, refer to the Installation Manual and Service manual of the indoor unit and outdoor unit.

■10.Reset Power Consumption data

Power consumption data saved in the remote controller can be reset.



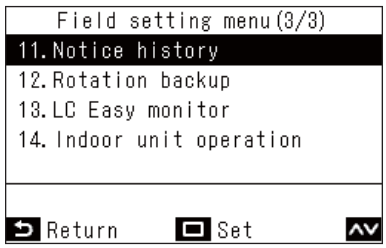
1 **Press [∧] and [∨] to select "Reset Power Consumption data" on the "Field setting menu" screen, then press [▭ Set/Fix]**

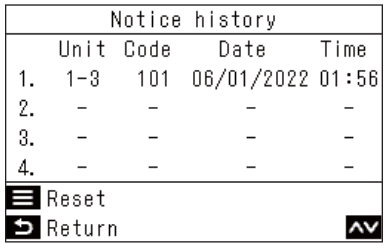
2 **To reset the power consumption data, press the [▭ Set/Fix]**

→Data is reset and the display returns to the "Field setting menu" screen.

■11.Notice history

Displays the last 10 notice codes, and at which unit and when they occurred.



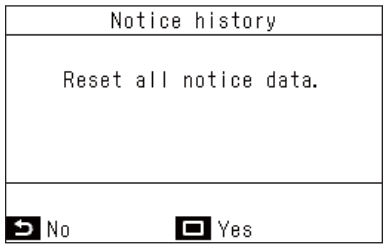


1 **In the "Field setting menu" screen, press [∧] and [∨] to select "Notice history", and then press [▭ Set/Fix]**

NOTE

The notice history data shows a history of 10 occurrences. If the occurrences exceed 10, the oldest data is deleted.

Deleting notice history



1 **Press [☰ Menu] while the "Notice history" screen is displayed**

→"Reset all notice data." is displayed.

2 **Press [▭ Set/Fix]**

REQUIREMENT

If you are using 2 remote controllers, delete the history at each remote controller.

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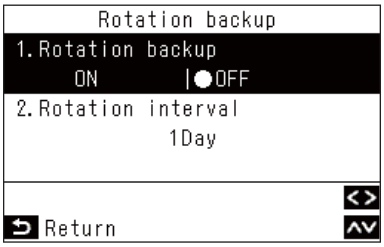
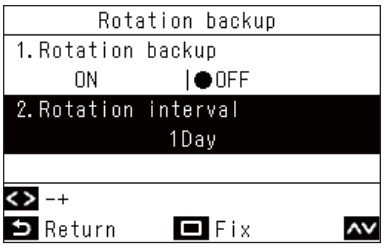
■12.Rotation backup

Sets rotation backup operations for light commercial models using group connections. This function equalizes the operating times of each system when operating two systems of air conditioners together. Also, air conditioning can be continued even if one system malfunctions by starting up the system that is in standby.

REQUIREMENT

Be sure to stop operation of the air conditioners.





1 **In the “Field setting menu” screen, press [∧] and [∨] to select “Rotation backup”, and then press [▭ Set/Fix]**

2 **Press [∧] and [∨] to select an item**

3 **Select “Rotation backup”, and press [〈] and [〉] to select your desired setting**

4 **Select “Rotation interval”, and press [〈] and [〉] to select your desired setting**

→ Set the interval at which the system that is operating is switched.

5 **Press [▭ Set/Fix]**

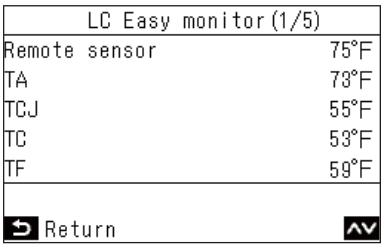
→Data is reset and the display returns to the “Field setting menu” screen.

NOTE

- The interval can be set in 1 day increments. (Max. 28 days)
- This function can only be used if all the following conditions are satisfied. If it cannot be used, then “No function” is displayed.
  1) System of light commercial indoor units that support this function
  2) Group connection of 2 systems by using single connections
- For details on this function, refer to the Service manual of the indoor unit.

■13.LC Easy monitor

The various sensor temperatures of the indoor unit and outdoor unit of light commercial models and operating conditions can be checked together.



1 **In the “Field setting menu” screen, press [∧] and [∨] to select “LC Easy monitor”, and then press [▭ Set/Fix]**

→ Press [∧] and [∨] to be able to switch the screen display.

→ In a group connection, after a selection in the unit selection screen, move to the “LC Easy monitor” screen.

2 **After checking, press [⮌ Return]**

→ Return to the “Field setting menu” screen.

The following items can be checked.

Indoor unit / remote controller relationship	Unit
Remote sensor	°F
Return air temperature (TA)	°F
Indoor heat exchange temperature (TCJ)	°F
Indoor heat exchange temperature (TC)	°F
Discharge temperature (TF)	°F
Fan(IDU) speed	rpm
Fan(IDU) operating	h
Filter usage	h

Outdoor unit relationship	Unit
Outdoor heat exchange temperature (TE)	°F
Outdoor temperature (TO)	°F
Compressor discharge temperature (TD)	°F
Compressor suction temperature (TS)	°F
Outdoor unit heat exchange temperature (TL)	°F
Current(ODU)	A
Comp. speed	rps
Comp. operation	h
Fan1(ODU) speed	rpm
Fan2(ODU) speed	rpm
Refrigerant amount check	*1
High pressure (Pd)	MPa
Low pressure (Ps)	MPa

*1: “Refrigerant amount check” shows one of the following.
For details on the various content, refer to the Installation Manual and Service manual of the outdoor unit.

- “No refrigerant leak detected”
- “Possible refrigerant leak”
- “Initializing/Undeterminable (see manual)”
- “Preliminarily OK. Still processing.”
- “Undeterminable (see manual)”
- “On process”

NOTE

- Cannot be used except with light commercial models. “No function” is displayed.
- Even with light commercial models, some items may not display their data.
  If this happens, the data in that item appears as “--”. For details on items and the content they display, refer to the Installation Manual and Service manual of the indoor unit and outdoor unit.
- “LC Easy monitor” display temperature values in same unit as selected in “Set temp. unit” (“°C” or “°F”).

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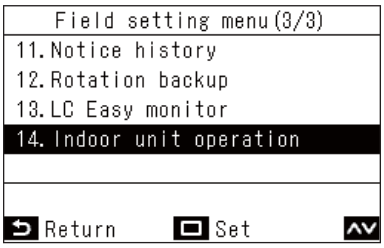
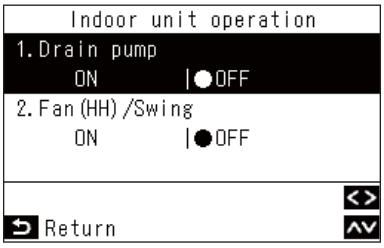
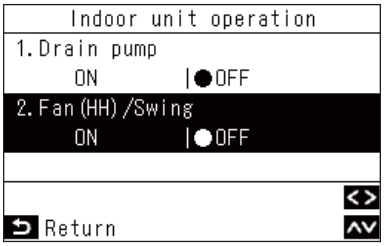
■14.Indoor unit operation

Forces operation of drain pump, fan / louvres built-in to indoor units to check operations.







1 **In the “Field setting menu” screen, press [∧] and [∨] to select “Indoor unit operation”, and then press [▭ Set/Fix]**

→ In a group connection, after a selection in the unit selection screen, move to the “Indoor unit operation” screen.

2 **Press [∧] and [∨] to select an item**

3 **Select “Drain pump”, and press [<] and [>] to select your desired setting**

→ Setting “Drain pump” to “ON” starts operation of the drain pump that is built into the indoor unit.

4 **Select “Fan(HH)/Swing”, and press [<] and [>] to select your desired setting**

→ Setting “Fan(HH)/Swing” to “ON” starts high speed operation of the indoor fan and swinging of the louvres.

5 **After checking operations, press [⮌ Return]**

→ The drain pump, indoor fan, and louvres stop operating, and after “⧖” is briefly displayed, the “Field setting menu” screen returns.

NOTE

If there are no button operations in the “Indoor unit operation” screen for 30 minutes, operation of the drain pump, indoor fan, and louvres is stopped, and after “⧖” is briefly displayed, the “Field setting menu” screen returns.

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