TOSHIBA
Carrier

REMOTE CONTROLLER FOR AIR CONDITIONER (SPLIT TYPE)

Owner's Manual

Remote Controller

Model name:

**Remote controller with
weekly timer
RBC-AMS41UL**

Contents

1 SAFETY PRECAUTIONS

- Before use, read carefully through the "Safety Precautions" section to ensure correct operation.
- The precautions described here are divided into two categories, **WARNING** and **CAUTION**. Both categories contain important safety-related information, and their directions must be followed without fail.

After reading these instructions, be sure to keep them in a safe place where they can be referred to at any time by the user. Also be sure that they are handed over to a new user.

Installation precautions

⚠ WARNING

- **Do not attempt to install the air conditioner yourself.**
  Ask your dealer or a contractor with specialized experience to install the air conditioner. Electric shocks and/or a fire may result if you attempt to install the air conditioner yourself and the air conditioner ends up not being installed perfectly.

- **Use only with the authorized air conditioner units.**
  Be absolutely sure to use only the authorized air conditioner units designated by the manufacturer.
  Also, ask a contractor with specialized experience to install them. Electric shocks and/or a fire may result if you attempt to install the parts yourself and the parts end up not being installed perfectly.

⚠ CAUTION

- **Do not install the remote controller unit where there are high levels of moisture, oils, grease or vibration.**
  Failure to heed this caution may cause trouble.

- **Do not install the remote controller unit in direct sunlight or near a heat source.**
  Failure to heed this caution may cause malfunctioning.

- **Do not install the remote controller unit where there are sources of noise.**
  Failure to heed this caution may cause unintended operation.

Operating precautions

⚠ WARNING

- **Do not operate the buttons with wet hands.**
  Failure to heed this warning may result in electric shocks and/or trouble.
- **Do not get the control unit wet.**
  Take steps to avoid getting the control unit wet. Failure to heed this warning may result in electric shocks, a fire and/or trouble.
- **If trouble (such as the smell of burning) has occurred, stop operation and turn off the circuit breaker.**
  Allowing operation to continue while the trouble has not been remedied may cause electric shocks, a fire and/or trouble. Consult your dealer.

⚠ CAUTION

- **Do not drop the product or subject it to strong impact.**
  Failure to heed this caution may cause malfunctioning.
- **Use only the fuses with the correct amperage.**
  Use of pieces of wire including copper wiring may cause a fire and/or trouble.
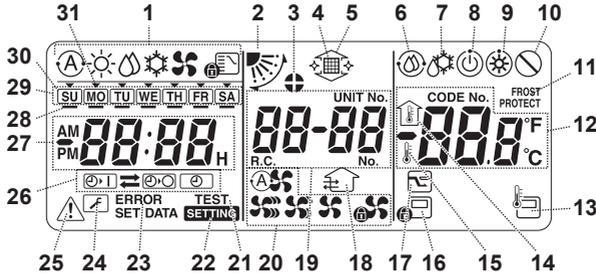
Relocation and repair precautions

⚠ WARNING

- **Do not undertake any repair work yourself.**
  Under no circumstances must you attempt to do any repair work yourself.
  Instead, consult your dealer or a contractor with specialized experience. Electric shocks and/or a fire may result if you attempt to do repair work yourself and this work ends up not being carried out perfectly.
- **Consult your dealer when the control unit is to be relocated and re-installed.**

2 PARTS AND THEIR FUNCTIONS

LCD area
All displays are shown lighted only for the purposes of description.

1 Operation mode display
The selected operation mode is displayed.

2 Air direction
This indicates the air direction which has been selected.

3 Fixed louvers
This appears when the louvers are fixed.

* It also appears when the remote controller function has been selected.

4 Filter
This appears when it is time to inspect the filter.

5 Grille up/down
This appears when the grille is goes up or goes down.

6 Self-cleaning operation
This appears while self-cleaning is underway.

7 Defrosting
This appears while defrosting is underway during a heating operation.

8 Ready
This display appears on some models.

9 Heating ready (indoor fan stops while this is displayed)
This appears before a heating operation starts or while defrosting.

10 No function
This appears when a button is pushed but there is no corresponding function.

11 FROST PROTECT operation
This appears during a frost protection operation.

12 Numeric display
This displays the numeric value of the temperature, the numerical order of the trouble history events or the code numbers when the functions are set.

13 Remote control sensor
This appears when the remote control sensor is used.

14 Indoor temperature
This appears when the intake temperature is displayed on the numeric display.

15 Set temperature
This appears when the set temperature is displayed on the numeric display.

16 Central control
This appears when key operation limits are being enforced by the central controller or other unit or when key operation limits have been set in the program for the scheduled operation currently being executed.

17 Save operation

This appears while a save operation is being set or executed.

18 Ventilation operation

This appears while the ventilation fan is operating.

19 Numeric display

The numbers of the indoor units or numbers of the scheduled operation programs are displayed here.

20 Air speed display

This indicates the selected air speed.

21 TEST

This appears while a test run operation is being performed.

22 SETTING

This appears when the clock time, a program or the timer is being set.

23 ERROR

This appears when there is an error in the program setting input.

24 Servicing

This appears during servicing.

25 Inspect

This appears when trouble has occurred.

26 Timer function display

This indicates the function whose operation has been scheduled when a scheduled operation or timer operation has been set.

27 Numeric display

This indicates the present clock time, program operation time or timer execution time.
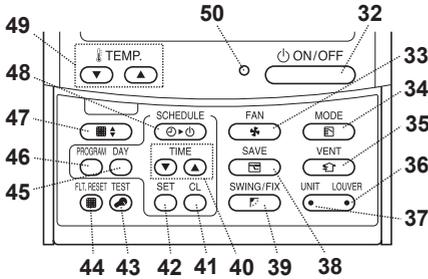
28 Operation reservation —

This appears for the days of the week on which programs have been set.

29 Days of the week display

30 Special holiday ▢

This appears for a day of the week which has been set as a special holiday.

31 Day arrow ▼

This indicates the current day of the week or day on which a program is set.

Button operation area

32 ON/OFF button
Shortly after this button is pushed, operation starts, and operation stops shortly after the button is pushed again.

33 FAN button
Use this to select the desired air speed mode.

34 MODE button
Use this to select the desired operation mode.

35 VENT button
Use this when a ventilation fan or other unit, purchased on the market, has been connected.

36 LOUVER button
Use this to select the louvers when setting the air direction for each louver or when fixing the louvers in place.

37 UNIT button
Use this to select the indoor unit to be operated when operating a multiple number of indoor units using one remote controller.

38 SAVE button
Use this when performing save operations.

39 SWING/FIX button
Use this to select the desired air direction or swing operation.

40 TIME buttons
Use this to set the clock or adjust the time when the operating time is set.

41 CL button
Use this when clearing the setting of the program (for a scheduled operation or timer operation) which is being set.

42 SET button
Use this when entering the settings of the program (for a scheduled operation or timer operation) which is being set.

43 TEST button
Use this for servicing.
* This button is not normally used.

44 FLT.RESET button
Use this to reset (extinguish) the filter display.

45 DAY button
Use this to select the targeted day of the week when setting the clock or setting a program.

46 PROGRAM button
Use this when starting and ending the program settings for scheduled operations.

47 Grille button
Use this to raise or lower the grille.

48 SCHEDULE button
Use this when executing or releasing scheduled operations or when selecting ON or OFF for timer operations.

49 TEMP. buttons
Push ⏷ and ⏶ to set the temperature to the desired value.
* These buttons are also used to raise or lower the grille when the grille function is used.

50 ON lamp
This lights during operation. It blinks when trouble has occurred or when a protection operation is performed.

3 SETTING THE CURRENT DAY OF THE WEEK AND CLOCK TIME

- Set the current clock time and day of the week.
- The day of the week and clock settings can be performed whether the air conditioner is running or shut down.
  - * The air conditioner continues to operate (run) while the day of the week and clock settings are being performed.
- The normal operation of the air conditioner or a program for a scheduled operation can be input even without performing the day of the week and clock settings, but the scheduled operation cannot be executed. In order to execute scheduled operations, the day of the week and clock must be set without fail.
- Before this remote controller is shipped from the factory, the initial setting (default) of the 24-hour display is established for the clock time display, but this can be changed to the 12-hour (AM/PM) display.
  - * If you want to use the 12-hour time display, refer to the "Selecting the remote controller functions" section.
  - * In these instructions, the 24-hour display is used in the figure and descriptions.

Preparations

Turn on the ground fault interrupter.
- When the power is turned on, a dividing line appears on the remote controller display.
  - * For about a minute after the power has been turned on, SETTING on the LCD screen blinks, and there will be no response to the keys of the remote controller even when they are pushed.

1 Hold down the SCHEDULE button (48) for at least 4 seconds.

- The display transfers to the day of the week/clock setting screen.
- The whole LCD display blinks.

<Blinks>

2 Repeatedly push the ○ DAY button (45), and select the current day of the week.

- Move the day arrow ▼ to the position above the current day of the week.
- The LCD display continues to blink.

3 Push the TIME ▼ and ▲ buttons (40), and select the current clock time.

- Each time the ▲ button (40) is pushed, the clock is moved forward by one minute.
- Each time the ▼ button (40) is pushed, the clock is moved back by one minute.
- When the ▲ or ▼ button is held down, the clock is moved forward or back in 10-minute increments.
- The LCD display continues to blink.

4 Push the ○ SET button (42) to return to the original screen.

- As soon as the button is pushed, the clock starts running. (Do this in synchronization with a time signal.)
- SETTING on the LCD screen goes off.
- After the clock has been set, the entire LCD screen lights, but the colon (":") continues to blink.

4 CORRECT OPERATING PROCEDURES

■ Procedure for normal operation

The functions will differ depending on the model and system.

- Follow the steps below before using the remote control system for the very first time or when changing any of the settings.
- After the steps have been followed, operation will commence using the settings established simply by pushing the ⏻ON/OFF button (32).

Preparations
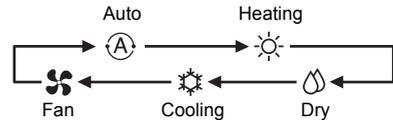
Turn on the ground fault interrupter.

- When the power is turned on, a dividing line appears on the remote controller display.
  - * For about a minute after the power has been turned on, SETTING on the LCD screen blinks, and there will be no response to the keys of the remote controller even when they are pushed.

NOTE

- Do not turn off the ground fault interrupter during the operating season of the remote control system.
- After the remote control system has been shut down for a prolonged period, turn on the ground fault interrupter back on at least 12 hours before its operation is to be started.

Starting operation

1 **Push the ⏻ON/OFF button (32) to start operation.**

- The ON lamp lights, and the operation details are displayed on the LCD screen.

2 **Push the MODE button (34), and select the mode of operation.**

- Each time this button is pushed, the operation mode display changes in the sequence shown below.
- Stop pushing the button when the symbol corresponding to the desired mode of operation lights.
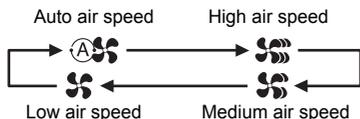

3 **Push the ⏻ON/OFF button (32) to shut down operation.**

- The ON lamp goes off, and the operation details are cleared from the LCD screen. (The frame lines remain displayed.)
- Before operation shuts down, the self-cleaning operation is commenced if the air conditioner was run in the Auto (during cooling), cooling or dry mode for 10 or more minutes.
  - * For details on the self-cleaning operation, refer to the "Self-cleaning operations" section.

Changing the air speed

1 **Push the ⊚ button (33), and select the desired air speed.**

- Each time the button is pushed, the air speed display changes in the sequence shown below.
- Stop pushing the button when the symbol corresponding to the desired air speed lights.

Auto air speed   High air speed

Low air speed   Medium air speed

* If, during heating, the rooms do not heat up quickly at the low air speed setting, change the setting to high or medium.
* The auto air speed cannot be selected during fan operations.

Changing the temperature

1 **Push the TEMP. ⊽ and △ buttons (49), and select the desired temperature setting.**

- When the ⊽ button (49) is pushed, the temperature on the numeric display goes down; conversely, when the △ button (49) is pushed, the temperature displayed goes up.
- The temperature cannot be set during fan operations.

■ Adjusting the air direction

The functions will differ depending on the model and system.

- To increase the cooling or heating effect, be sure to change the louver direction between cooling and heating operations.
- The nature of air is to fall toward the floor where it collects when it is cold and to rise toward the ceiling where it collects when it is warm.

⚠ CAUTION

- **For cooling operations, set the louvers to the horizontal blow-out position.**
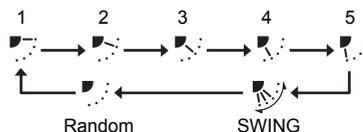
  Performing cooling operations with the louvers at the downward blow-out position may cause condensation to form around the air outlets and louver surfaces and water may drip.

  * For further details, refer to the operating instructions of the air conditioner.

Changing the air direction

1 **During operation, push the ⊚ button (39), and select the desired air direction.**

- Each time the button is pushed, the air direction display changes in the sequence shown below.
- Stop pushing the button when the symbol corresponding to the desired air direction lights.
  * Air directions 4 and 5 are not displayed during cooling or dry operations.
  * It may not be possible to set air direction 1 after the air direction has been at the random setting.
    If this is the case, wait 2 seconds, and then push the ⊚ button (39) again.

1   2   3   4   5

Random   SWING

Starting the louver swing motion

1 **During operation, push the ⊚ button (39), and select the symbol shown on the right.**

- If the button is then pushed from the downward blow-out position, the symbol shown on the right lights for the air direction display.

Stopping the louver swing motion

1 **While the louvers are swinging, push the ⟨SWING/FIX⟩ button (39) when the louvers reach the desired position.**

- The symbol shown on the right lights for the air direction display.
  * The louvers will not stop at the downward blowout position during a cooling or dry operation.
    Even when the button is pushed at the downward blow-out position, the louvers will stop swinging only after moving to the third position from the top.

* Concerning the ⟨UNIT⟩ button (37)

- When a multiple number of indoor units are being run using a single remote controller, this button can be used to select one indoor unit and set the air direction of that unit.
- When the air direction is to be set for each of the units, push the ⟨UNIT⟩ button (37), and display the number of one of the indoor units controlled as the group on the numeric display. Change the air direction for the indoor unit now displayed.
- If no indoor unit number is indicated on the numeric display, the same air direction setting will apply to all the indoor units.

■ Frost protection operation (heating at 46°F (8°C))

The functions will differ depending on the model and system.

- This is a heating operation function which is specially designed for use in cold regions where it will keep the indoor temperature constant while you are out.
- To enable this function, an application control setting is required. Consult your dealer or a contractor with specialized experience.
  * For further details, refer to the operating instructions of the air conditioner.

Setting the frost protection operation

1 **Push the TEMP. ⟨▼⟩ button (49) during a heating operation.**

- Repeatedly push the button or hold it down until "*64*" appears on the numeric display.

2 **Now hold down the TEMP. ⟨▼⟩ button (49) for at least 4 seconds.**

- When this button is pushed, what appears on the numeric display changes from "*64*" to "*46*", and the *FROST PROTECT* display lights.
- The frost protection operation now starts.

Releasing the frost protection operation

1 **Push the TEMP. ⟨▲⟩ button (49) during the frost protection operation.**

- When this button is pushed, the *FROST PROTECT* display goes off, and what appears on the numeric display changes from "*46*" to "*64*".
- A normal heating operation now starts. The temperature setting is 64°F (18°C) so push the TEMP. ⟨▲⟩ button (49), and select the desired temperature setting.

■ Save operations

The functions will differ depending on the model and system.
- During this operation, the maximum current is restricted.
  - * For further details, refer to the operating instructions of the air conditioner.

Initiating a save operation

1 **During operation, push the (SAVE) button (38).**
- The save operation where the maximum current is restricted starts, and the save operation display lights.

2 **To release the save operation, push the (SAVE) button (38) again.**
- The save operation display goes off, and normal operation starts.

■ Self-cleaning operations

The functions will differ depending on the model and system.
- When the air conditioner has stopped operating after an auto (cooling), dry or cooling operation, this function moves into action to dry out the insides of the indoor units using the fan operation so as to keep the indoor units clean.
  - * For further details, refer to the operating instructions of the air conditioner.

1 **The self-cleaning operation starts automatically when the air conditioner was in the auto (cooling), dry or cooling mode for at least 10 minutes before its operation is shut down.**
- The ON lamp goes off, the operation stop display appears on the LCD screen, and the self-cleaning operation display lights.
- The duration of the self-cleaning operation differs depending on the operation time prior to shutdown.

Operation time prior to shutdown	Duration of selfcleaning operation
Under 10 minutes	No self-cleaning operation
10 or more minutes but under an hour	1 hour
1 hour or more	2 hours

2 **To stop the self-cleaning operation, push the (ON/OFF) button (32) twice in succession.**
- The self-cleaning operation display goes off, and the self-cleaning operation ends.

■ Grille operation procedure

The functions will differ depending on the model and system.

*   For further details, refer to the operating instructions of the air conditioner.

Operation

1   Hold down the grille button ⬚ (47) for at least 4 seconds.

*   The display transfers to the grille up/down screen, and the indoor units stop operating.
*   The filter ▦, grille up/down ↕ and numeric display blink.
    *   The "no function" display ⊘ appears when the grille is not connected or the control settings have not been established correctly.

2   Push the ⬚ button (37), and select the indoor unit for which the grille is to be set.

*   Each time the button is pushed, the unit number on the numeric display changes.
    *   The fan of the selected indoor unit starts running, and the louver swings.

3   Push the TEMP. ▽ or △ button (49) to move the up/down grille.

*   When the ▽ button (49) is pushed, the up/down grille goes down slowly; conversely, when the △ button (49) is pushed, the up/down grille goes up.
*   If the up/down grille makes contact with an obstacle while it is going down, it stops.
*   Several seconds after the up/down grille rises and is neatly stowed in the air intake, the motor stops.
    *   The louver swings while the grille is going up or down.
    *   When the grille is stowed in the panel, this stowing operation is repeated 3 times to ensure that the grille is safely stowed away.

4   Push the ⬚ button (32) to stop the up/down grille.

*   The up or down movement of the up/down grille now stops.
*   If the ⬚ button (32) is not pushed and the grille continues to move down, the grille will automatically stop when it has moved down to the distance set.
    *   To change the movement from up to down or vice versa, stop the up/down grille movement first, and then make the change.

5   Push the grille button ⬚ (47).

*   The grille operation mode is exited.
*   The filter ▦, grille up/down ↕ and numeric display goes off, and SETTING blinks.
    *   While SETTING is blinking, there is no response to the keys of the remote controller even when they are pushed.

■ Detailed settings

The functions will differ depending on the model and system.

*   For descriptions of the following settings, refer to the operating instructions of the air conditioner.
    – Changing the swing type
    – Fixing or releasing the louvers
    – Changing the save operation settings

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5 SCHEDULED OPERATIONS

- Scheduled operations for a 1-week period can be performed using this remote controller.
- Eight (01 to 08) operations for each day of the week can be set in a scheduled operation program (item settings).
  – The following items can be set in a program:
  - a. Operation time
  - b. Operation start/stop
  - c. Operation mode
  - d. Temperature setting (frost protection)
  - e. Restriction on button operations
  - f. Save operation
- With a scheduled operation, the air conditioner is operated at the set operation time according to the program which has been set.
- The operation time can be set in 1-minute increments.
  - * Restriction on button operations
    This function cancels the button operations while a scheduled operation is being executed. To use this function, refer to the "Selecting the remote controller functions" section and change the settings before proceeding with the program settings described below. The initial (factory) setting calls for no restriction on the button operations.
  - * Save operation
    The save operation function is not provided for some models and systems. To find out whether the function is provided, consult your dealer or a contractor with specialized experience.
  - * Concerning the "Continue xx" setting
    The "Continue" setting can be established for the operation ON/OFF, operation mode and temperature setting items. This setting causes the current operation modes of the indoor units to be continued.
  - * "Continue" is set on the initial screen for each item of each program number so

in the example of the operation given above there is no need to input anything for the operation ON/OFF and operation mode items.
  - * This function does not work if the "timer operation function" or "no timer function" has been selected by following the steps set forth in the "Selecting the remote controller functions" section.

■ How to set up the operation programs

- Perform the steps below to set up a scheduled operation program (item settings).
  - * Programs can be set up whether the air conditioner is running or shut down.
  - * While these steps are being taken, an air conditioner which is operating continues to operate.

1 Push the ⬚ button (46).

- The display transfers to the program input screen.
- The entire LCD screen starts blinking.

2 Push the ⬚ button (45).

- Repeatedly push the button to move the day arrow ▼ to the position above the day of the week when the scheduled operation is to be executed.
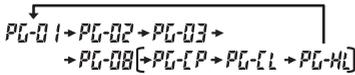
▼
SU MO TU WE TH FR SA

3 Push the ⬚ button (42).

- Set the day of the week when the scheduled operation is to be executed.
- The days of the week display and the day arrow ▼ stop blinking and light up.

4 Push the 🌡 button (37).

- Each time the button is pushed, the number on the numeric display changes in the following sequence.
- Stop pushing the button when the number to be programmed blinks on the display.

$$PG-01 \rightarrow PG-02 \rightarrow PG-03 \rightarrow$$
$$\rightarrow PG-08 [\rightarrow PG-CP \rightarrow PG-CL \rightarrow PG-HL]$$

- * For the items inside the square parentheses, refer to the "Editing the operation programs" section.

5 Push the ⊙ button (42).

- The program number on the numeric display stops blinking and lights up.

6 Push the TIME ▽ and △ buttons (40).

- Set the operation time. This time must be input.
- The steps taken are the same as for setting the clock.
  - * After setting the time, there is no need to push the ⊙ button (42). All the items will be entered together in step **8**.
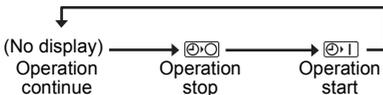
7 Set what is to be operated at the time which was set in step 6.

- * The settings can be established in any sequence.

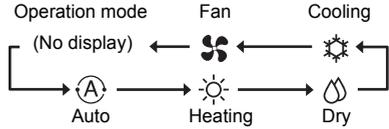The functions will differ depending on the model and system.

1. Selecting and setting operation/stop
   Each time the ⊙↻⊙ button (48) is pushed, what appears on the timer function display changes in the following sequence. Stop pushing the button when the desired operation blinks on the display.
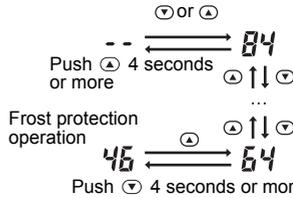
   (No display) ⟶ ⊙↻⊙ ⟶ ⊙↻Ⅰ
   Operation   Operation   Operation
   continue   stop   start

2. Selecting and setting the operation mode
   Each time the 🔲 button (34) is pushed, what appears on the operation mode display (1) changes in the following sequence. Stop pushing the button when the operation mode blinks on the display.

Operation mode   Fan   Cooling
(No display) ⟵ 💨 ⟵ ☼
⟶ Ⓐ ⟶ ☼ ⟶ ◊
Auto   Heating   Dry

3. Setting the temperature
   Each time the TEMP. ▽ and △ buttons (49) are pushed, what appears on the numeric display changes in the following sequence. Stop pushing the buttons when the target temperature to be set blinks on the display.

   ▽ or △

   - - ⟷ 84
   Push △ 4 seconds   △↕▽
   or more
                          ...
   Frost protection   △↕▽
   operation   46 ⟷ 64
                  △
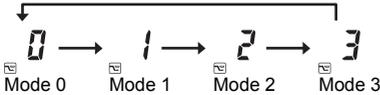   Push ▽ 4 seconds or more

4. Setting the restriction on the button operations
   - Each time the 🔲 button (34) is pushed while the ⊘ button (43) is held down, the central control display changes from off to blinking or vice versa.
     To place the restriction on the button operations, ensure that the display is blinking.
     - * The ⏻ON/OFF button (32), 🔲 button (34) and TEMP. ▽ and △ buttons (49) are the buttons whose operation will be restricted by this setting.
       For further details, refer to the "Selecting the remote controller functions" section.

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5. Setting the save operation
    Each time the ⌖ button (38) is pushed, the numeric display and save operation display ☲ change in the following sequence. Stop pushing the button when the desired save operation mode (mode 0 to 3) blinks on the display.

| Mode 0 | Mode 1 | Mode 2 | Mode 3 |

Save operation mode	Description
Mode 0	No save operation
Mode 1	Save operation with 75% upper limit
Mode 2	Save operation with 50% upper limit
Mode 3	Compressor shutdown

8 Push the ⌖ button (42), and enter all the items in steps I to V above and the operation time together.

The display of all the setting items changes from blinking to lighted.

9 In addition:

1. To input the settings into the different program number for the same day of the week, repeat the operations from step **4**.
2. To move to a different day of the week and input the program, repeat the operations from step **2**.

10 Finally, push the ⌖ button (46) to return to the original screen.

-   An underbar is displayed under the selected day of the week.

■ Example of setting up an operation program

Example of program input
For program 01 for Wednesday, "7:00", "ON", "heating", "77°F (25°C)", "restriction on key operation enabled", "save operation" and "mode 1" will be set.

-   Initial screen (clock setting/operation stop)

0

-   Push the ⌖ button (46), and transfer the display to the input screen.
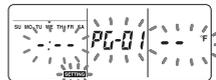-   On the input screen, the entire display blinks.

1

-   Push the ⌖ button (45), and move the day arrow ▼ to the position above "WE".

2

-   Push the ⌖ button (42), and enter the day of the week.
-   The days of the week display and the day arrow ▼ stop blinking and light up.

3

-   Repeatedly push the ⌖ button (37), and display the number of the program which is to contain the settings on the numeric display.
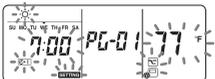
4

5

- Push the ⬡ button (42), and enter the program number.
- The numeric display stops blinking and lights up.

6

- Push the TIME ▼ and ▲ buttons (40), and set the operation time.
- If the buttons are held down for four or more seconds, the time can be moved forward or back in 10-minute increments.

1. Selecting and setting operation/stop
   Push the ⬡ button (48) until ⊙▶| blinks on the display.

2. Selecting and setting the operation mode
   Push the ⬡ button (34) until ☼ blinks on the display.

3. Setting the temperature
   Push the TEMP. ▼ and ▲ buttons (49) until "77" blinks on the numeric display.

4. Setting the restriction on the button operations
   Push the ⬡ button (34) while holding down the ⬡ button (43) until ⬡ blinks on the display.

5. Setting the save operation
   Push the ⬡ button (38) until ⬡/ blinks on the display.

7

- Push the ⬡ button (42) to enter the operation settings.
- With the exception of SETTING, all the displays stop blinking and light up.

8

- Finally, when the ⬡ button (46) is pushed, SETTING goes off, and the original screen is restored.

9

- An underbar is displayed under the selected day of the week.

■ Scheduled operation setup

How to execute scheduled operations

- On the screen of the remote controller whose power has been turned on, check that the current day of the week and clock time are set accurately.
  Scheduled operations cannot be executed while the days of the week display, the day arrow ▼ and numeric display are still blinking.
- Set at least one operation program. Check that at least one operation reservation display ⬭ is indicated below the days of the week on the remote controller screen.

1 Push the ⬡ button (48).
- Although first extinguished on the timer function display, the symbol shown on the right now starts blinking.

⟨⊘⟩

2 Push the ⬡ button (42) within 5 seconds of completing step 1.
- The symbol on the timer function display stops blinking and lights.

How to release a scheduled operation

1 Push the ⬡ button (48).
- The symbol on the timer function display changes from the lighted status to blinking.

2 Push the ⬡ button (41) within 5 seconds of completing step 1.
- The symbol on the timer function display stops blinking and goes off.

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■ Error displays

- Trouble may be to blame if the **ERROR** display remains lighted for 3 seconds while a scheduled operation is being executed or while a scheduled operation program is being input. Check for trouble, and remedy it.

1 When the �²ᴱᵀ○ button (42) was pushed while a scheduled operation was being executed:

- The current day of the week and/or current clock time have not been set. Proceed with the clock setting operation.
- No programs have been set. Input the operation program.

2 When the ⏲ᴱᵀ○ button (42) was pushed while a program was being input:

- One setting time overlaps another setting time.
  Change one of the setting times.

■ Program check operation

- Programs are checked using the program input screen.

1 Push the ▭○ button (46).

- The display transfers to the program input screen.
- The entire LCD screen blinks.

2 Push the ᴰᴬʸ○ button (45).

- Repeatedly push the button until the day arrow ▼ moves to the position above the day of the week whose program is to be checked.

3 Push the ⏲ᴱᵀ○ button (42).

- Enter the day of the week whose program is to be checked.
- The days of the week display and day arrow ▼ stop blinking and light up.

4 Push the ᵁᴺᴵᵀ℮ button (37).

- Each time this button is pushed, the program number and editing type are scrolled forward in sequence on the numeric display.

- Display the number of the program to be checked, and check the program's settings.
  * Unless the ⏲ᴱᵀ○ button (42) is pushed, the key operations are canceled, in which case the program settings will remain unchanged.

5 After completing the check, push the ▭○ button (46) to return to the original screen.

■ Editing the operation programs (instructions for copying)

- When setting the operation programs, the already programmed settings for another days of the week can be copied for an specially designated day of the week.
  * The program settings can be copied whether the air conditioner is running or shut down.

Copying the program settings

1 Push the ▭○ button (46).

- The display transfers to the program input screen.
- The entire LCD screen blinks.

2 Push the ᴰᴬʸ○ button (45).

- Repeatedly push the button until the day arrow ▼ moves to the copy source day of the week.

3 Push the ⏲ᴱᵀ○ button (42).

- Enter the copy source day of the week.
- The days of the week display and day arrow ▼ stop blinking and light up.

4 Push the ᵁᴺᴵᵀ℮ button (37).

- Repeatedly push this button until "PG-CP" (shown right) appears on the numeric display.
  * PG-CP ..... <u>P</u>RO<u>G</u>RAM-<u>C</u>O<u>P</u>Y

$$PG\text{-}CP$$

5 Push the ⏲ᴱᵀ○ button (42).

- The "*PG-CP*" display stops blinking and lights up.
- The day of the week where the day arrow ▼ is lighted serves as the copy source.

6 **Again push the ○̆ button (45).**

- Repeatedly push the button until the day arrow ▾ moves to the copy destination day of the week.
- The day arrow ▾ blinks while the copy destination is being selected.

7 **Push the ○̆ button (42).**

- The settings of the copy source day of the week are copied into the copy destination day of the week.
- The blinking of the day arrow ▾ displayed for the copy destination day of the week changes to the lighted operation reservation display.
  - * Copying involves overwriting any existing settings.
    Bear in mind that the original setting of the copy destination will be deleted when the ○̆ button (42) is pushed.

8 **To continue copying, repeat steps *4* to *7*.**

9 **Finally, push the ○̆ button (46) to return to the original screen.**

■ **Editing the operation programs (instructions for clearing)**

- Operation programs which have been set can be cleared (deleted) in two ways.
1. All the programs for a specific day of the week can be cleared.
2. A specific program on a specific day of the week can be cleared.
- * The program settings can be cleared whether the air conditioner is running or shut down.

How to clear the program settings

How to clear the programs for a specific day of the week

1 **Push the ○̆ button (46).**

- The display transfers to the program input screen.
- The entire LCD screen blinks.

2 **Push the ○̆ button (45).**

- Repeatedly push the button until the day arrow ▾ moves to the day of the week whose programs are to be cleared.

3 **Push the ○̆ button (42).**

- Enter the day of the week whose programs are to be cleared.
- The days of the week display and day arrow ▾ stop blinking and light up.

4 **Push the ⌀ button (37).**

- Repeatedly push this button until "PG-CL" (shown right) appears on the numeric display. *PG-CL*
  - * PG-CL ...... P̲RO̲G̲RAM-C̲L̲E̲AR

5 **Push the ○̆ button (42).**

- The settings of all the programs which have been set and displayed for the day of the week are cleared (deleted), and the no program set status blinks on the screen.
  - * Bear in mind that cleared settings cannot be restored.

6 **To continue clearing, repeat steps *2* to *5*.**

7 **Finally, push the ○̆ button (46) to return to the original screen.**

How to clear individual programs on the same day of the week

1 **Push the ○̆ button (46).**

- The display transfers to the program input screen.
- The entire LCD screen blinks.

2 **Push the ○̆ button (45).**

- Repeatedly push the button until the day arrow ▾ moves to the day of the week for which a program to be cleared has been set.

3 **Push the ○̆ button (42).**

- Enter the day of the week for which the program to be cleared has been set.
- The days of the week display and day arrow ▾ stop blinking and light up.

4 **Push the ⌀ button (37).**

- Repeatedly push this button until the number of the program to be cleared appears on the numeric display.
- The program number displayed blinks.

EN

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5   Push the ⊝ button (42).
- Enter the number of the program to be cleared.
- The program number on the numeric display blinks.

6   Push the ⊝ button (41).
- The settings for the program number on the numeric display are cleared (deleted), and the no program set status blinks on the screen.
    * Bear in mind that cleared settings cannot be restored.

7   **To continue clearing, repeat steps *2* to *6*.**

8   **Finally, push the ⊟ button (46) to return to the original screen.**

■ Editing the operation programs (instructions for special holidays)

- A "special holiday" is a day of the week on which the scheduled operations set for that day of the week can be temporarily canceled. (The program remains stored in the memory.)
- When the day of the week set as a special holiday has passed, the special holiday setting is released, and the air conditioner operates as per the original program starting from the following week.
- Special holiday settings can be established for any day up to a week ahead starting from the current day of the week. When a special holiday has been set for the current day of the week, the setting starting from the next program time after the set time will be canceled.
- The special holiday setting cannot be established for any day of the week which has no program settings.
    * The special holiday setting can be established whether the air conditioner is running or shut down.

How to establish the special holiday setting

1   **Push the ⊟ button (46).**
- The display transfers to the program input screen.
- The entire LCD screen blinks.

2   **Push the ⊝ button (45).**
- Repeatedly push the button until the day arrow ▼ moves to the day of the week which is to be set as a special holiday.

3   **Push the ⊝ button (42).**
- Enter the day of the week which is to be set as a special holiday.
- The days of the week ▼ display and day arrow stop blinking and light up.

4   **Push the ⊛ button (37).**
- Repeatedly push this button until "PG-HL" (shown right) appears on the numeric display.   *PG-HL*
    * PG-HL ...... <u>PRO</u>GRAM-<u>HO</u>LIDAY

5   **Push the ⊝ button (42).**
- The special holiday display ⊡ blinks at the day of the week which has now been set as a special holiday.

6   **To continue with another setting, repeat steps *2* to *5*.**

7   **Finally, push the ⊟ button (46) to return to the original screen.**
- The special holiday display ⊡ above the day of the week set stops blinking and lights up.

How to cancel the special holiday setting

1   **Perform steps *1* to *4* in "How to establish the special holiday setting" for the day of the week whose special holiday setting is to be canceled.**

2   **Push the ⊝ button (42).**
- The special holiday display ⊡ over the day of the week set changes from lighted to blinking.

3   **Finally, push the ⊟ button (46) to return to the original screen.**
- The special holiday display ⊡ above the day of the week set stops blinking and goes off.

6 TIMER OPERATIONS

- Before this remote controller is shipped from the factory, the schedule timer operation function is set as an initial setting (default), but the count-down timer operation function can be selected instead.
  - * Users who want the timer operation function should refer to the "Selecting the remote controller functions" section.
  - * Bear in mind that if the timer operation function has been selected, the scheduled operation function cannot be used.
- The three following functions can be selected by the timer operation function:
  OFF timer:
    Operation is shut down when the set time is reached.
  Repeated OFF timer:
    Every time operation is started, it is shut down after the set duration.
  ON timer:
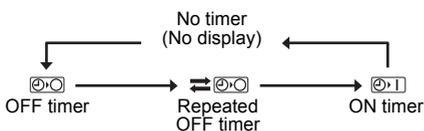   Operation is started when the set time is reached.
  - * The maximum time which can be set is 168 hours (7 days).

■ Timer operations

How to execute timer operations

1 During operation, push the ⊙·⊙ SCHEDULE button (48), and select the timer operation which is to be set.

- The display **SETTING** and numeric display blink, and the timer function display lights.
- Each time the button is pushed, what appears on the timer function display changes in the following sequence.
- Stop pushing the button when the desired operation lights up on the display.

No timer
(No display)

OFF timer → Repeated OFF timer ⇄ ON timer

2 Push the TIME ▼ and ▲ buttons (40), and select the set time.

- Each time the ▲ button (40) is pushed, the set time is moved forward in half-hour (30-minute) increments. If the set time is more than one day (24 hours) ahead, it is moved forward in 1-hour increments. The upper limit is 7 days (168 hours) ahead. The numbers representing any set time from 0.5 hour to 23.5 hours appear on the numeric display.
  For a set time more than 24 hours ahead, the number of days and time are indicated.
- Each time the ▼ button (40) is pushed, the set time is moved back in half-hour (30-minute) increments (from 0.5 hour to 23.5 hours) or in 1-hour increments (from 24 hours to 168 hours).

Example of remote controller display

- When the set time is 23.5 hours ahead

  23.5 H

- When the set time is 34 hours ahead

  $1d$ 10 H
  "1d" = 1 day = 24 hours
  "10H" = 10 hours
  Total = 34 hours

3 Push the ○ SET button (42).

- The numeric display stops blinking and lights up, and the timer function display changes to blinking from its lighted status.
- The **SETTING** display goes off.
  - * When the ON timer function is set, the operation of the air conditioner is shut down. This means that apart from the lighted numeric display and blinking timer function display, all other displays go off.

How to cancel a timer operation

1 Push the ○ CL button (41) during the timer operation.

- The timer function display and numeric display go off.
  - * A timer operation can be canceled while the timer operation is being set or executed.

7 TROUBLESHOOTING

Before requesting repair work

Check out the following points before requesting repair work.

The scheduled operation is not performed even though the set time is reached.

• The scheduled operation has not been set.

• A special holiday has been set.

The current clock time setting is blinking.

• There has been a prolonged power outage. Re-set the current clock time and current day of the week.

There is no response when the keys are operated.

• The restriction has been set for the key operations.
  Check the program.

The clock is not displayed when the power is turned on.

• The timer operation function or follower remote controller has been set.

• The setting for not displaying the clock has been established.
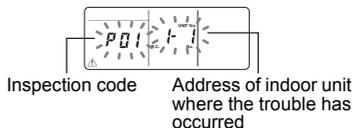
⚠ CAUTION

If the problem persists even after checking out the above points, stop operating the air conditioner, set the ground fault interrupter to off, and give the model number and details of the symptoms to your dealer. **Do NOT attempt to remedy the problem yourself due to the dangers involved.**

Trouble diagnosis

Checks and inspections

• When trouble has occurred in the air conditioner, an inspection code and the number of the indoor unit concerned blink on the numeric display.
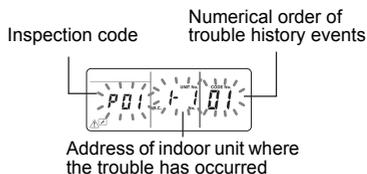

Inspection code   Address of indoor unit where the trouble has occurred

• Inspection codes are displayed only during operation.

• If the display has gone off, check the trouble by following the steps in "Checking the trouble history" below.

Checking the trouble history

• When trouble has occurred in the air conditioner, the trouble history can be checked by following the steps below. (Up to four events are stored in the trouble history.)

• The trouble history can be checked whether the air conditioner is running or shut down.

1 **Push the ⊙ button (42) and ⊘ button (43) together for at least 4 seconds.**

• The numeric displays blink, and the servicing display ⚠ and inspect display ⌖ light.

Inspection code   Numerical order of trouble history events

Address of indoor unit where the trouble has occurred

2 **Push the TEMP. ⊽ or ⌃ button (49).**

- Each time one of these buttons is pushed, the trouble history events are displayed in numerical order.
- The "01" code on the numeric display indicates the latest event, and "04" the earliest event.
  - * Do not push the ⊙ button (41) since all the trouble history events of the indoor units will be deleted.

3 **After checking the events, push the ⊘ button (43) to return to the original screen.**

Concerning trouble occurring in the remote controller

"⚠", "⎡⊙⎤" and "✧ ✧" **blink** at the same time.

- This means that trouble has occurred on the remote controller's circuit board. Contact your dealer.
- Normal air conditioner operations are still possible, but no scheduled operations can be performed.

8 SELECTING THE REMOTE CONTROLLER FUNCTIONS

- Change the settings of the remote controller functions as required by taking the steps below.

How to change the remote controller functions

1 **While operation is shut down, push the 🅑 button (43) and 🅑 button (48) together for at least 4 seconds.**
- The numeric displays and SETTING display blink, and the fixed louvers display lights.

2 **Push the TEMP. ▽ and △ buttons (49).**
- Repeatedly push the buttons until the setting to be changed blinks on the display.

3 **Push the TIME ▽ and △ buttons (40).**
- Repeatedly push the buttons until the setting to be changed blinks on the display.

4 **Push the 🅞 button (42). Then push the 🅑 button (43) to return to the original screen.**
- When the 🅞 button (42) is pushed, the numeric displays and SETTING display stop blinking and light up, and when the 🅑 button (43) is pushed again, they go off.

Items to be set
- 24-hour/12-hour display setting <code No.10>
  - The 24-hour display or 12-hour (AM/PM) display can be selected for the clock which is displayed on the remote controller.
  - This item's selection is also reflected on the clock displayed on the clock setting screen and program input screen.

  Setting Description
  0000: 24-hour display (factory setting)
  0001: 12-hour (AM/PM) display

- Restriction on button operations <code No.12>
  This item sets the range of the restriction placed on the button operations which can be applied while scheduled operations are being performed.
  Setting: 0000 (factory setting)

▼ Code No.12
O: Can be operated.
X: Cannot be operated.

Setting	[ON/OFF]	[MODE]	[TEMP.]
0000	O	O	O
0001	X	O	X
0002	X	X	X
0003	O	X	X
0004	O	X	O

• Display/non-display of clock <code no.13>
This item selects and sets whether the day of the week and clock time are to be displayed.
Setting: 0000 (factory setting)

▼ Code No.13
O: Display
X: No display

Setting	Scheduled operation underway		Scheduled operation in standby	
	Air conditioner now operating	Air conditioner now shut down	Air conditioner now operating	Air conditioner now shut down
0000	O	O	O	O
0001	X	X	X	X
0002	O	O	X	X
0003	O	X	X	X
0004	O	O	O	X
0005	O	X	O	X

• Selection of operation when power is restored after a power outage <code No.14>
This item selects the operation to be performed when power is restored after a power outage occurred during a scheduled operation.
0000: No operations are performed when the power is restored, and the scheduled operation is resumed as soon as the program time is reached after the power has been restored. (When the power is restored, the scheduled operation is based on the operation of the indoor units.)
0001: If there was a programmed operation during the power outage, that operation is performed when the program is resumed. If there is no programmed operation or if the "Continue xx" setting is in place, the operation prior to the power outage is resumed.

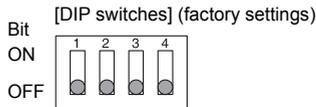**Selecting the functions using the DIP switches of the remote controller**
• The following functions can be selected using the DIP switches on the remote controller's circuit board.

Setting procedure
• Open the back cover of the remote controller, and select the functions using the DIP switches located at the bottom left of the circuit board.
• After establishing the settings, turn the ground fault interrupter off and then back on.

Setting items
• Remote controller header/follower setting: Bit 1
When operating the air conditioner using two remote controllers, set one of the controls to be the follower.
  * Set the remote controller used as the schedule timer to be the header.
• Operation function setting: Bit 2
One of the following three operation functions can be selected and set.
1.Scheduled operation function
2.Timer operation function
3.No scheduled or timer operation function

Bit [DIP switches] (factory settings)
ON
OFF

Bit 1	Bit 2	Bit 3	Bit 4
ON: Follower	ON: Timer operation	—	—
	OFF: No function		
OFF: Header	ON: Timer operation	—	—
	OFF: Scheduled operation		

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