



SANYO

Save These Instructions!
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RCS-TM80BG

REMOTE CONTROLLER-T (for EG)
 REMOTE CONTROLLER-T (for F)
 REMOTE CONTROLLER-T (for D)
 REMOTE CONTROLLER-T (for I)
 REMOTE CONTROLLER-T (for P)
 REMOTE CONTROLLER-T (for GR)
 REMOTE CONTROLLER-T (for ES)

INSTRUCTION MANUAL

XXX
 XXX
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EG
 F
 D
 I
 P
 GR
 ES

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SANYO Electric Co., Ltd.
 Gunma, Japan

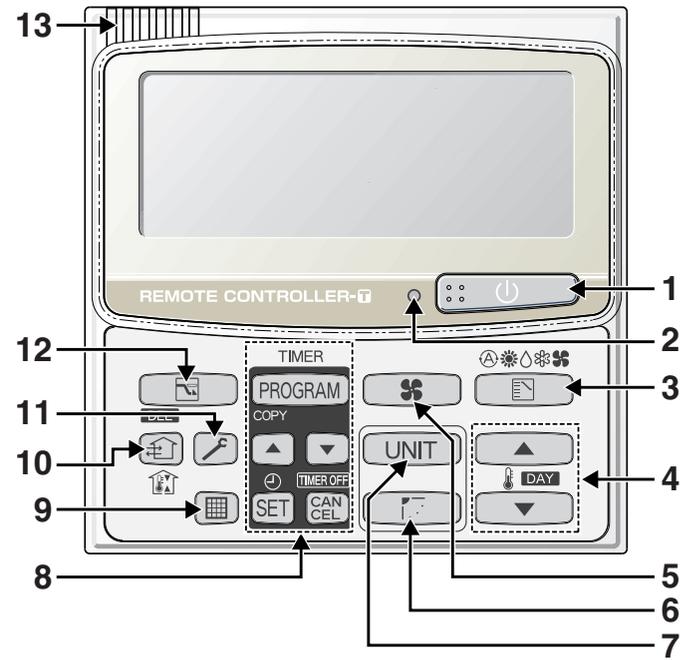


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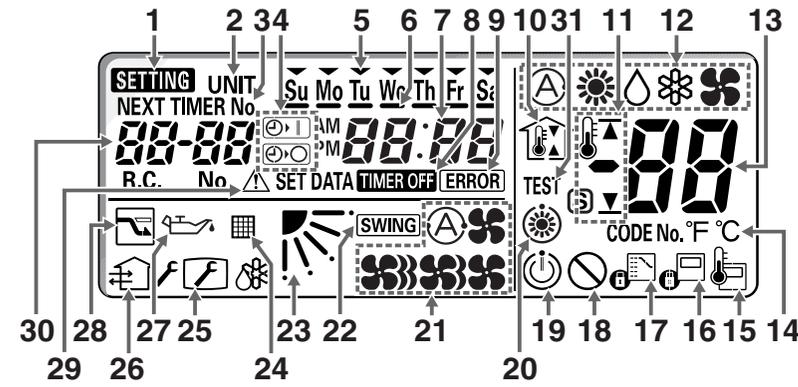


Operating buttons



I

Display



II

1. Important Safety Instructions

Before using the system, be sure to read these "Important Safety Instructions".
After reading this manual, save it in a convenient place.

Warning

Installation Precautions

- Do not install yourself. Installation should always be performed by your dealer or a professional service provider. Electric shock or fire may result if an inexperienced person performs any installation or wiring procedures incorrectly.
- Use only specified air conditioners. Always use only air conditions specified by Sanyo.

Precautions for Use

- Do not touch switches with wet hands. Electric shock and damage to the system can result.
- Protect the remote controller from water. Damage to the system can result.
- Stop the system and turn the power off if you sense unusual smells or other irregularities. Continuing operation when the system is out of order can result in electric shock, fire, and damage to the system. Contact your dealer.

Moving and Repair Precautions

- Do not repair. Never repair the system yourself. Contact your dealer for repair. Electric shock or fire may result if an inexperienced person attempts to repair the system.
- Contact your dealer before moving the system. Contact your dealer or a professional service provider about moving and reinstalling the system. Electric shock or fire may result if an inexperienced person performs any installation procedures incorrectly.
- Contact your dealer before moving the system. Contact your dealer or a professional service provider about moving and reinstalling the system. Electric shock or fire may result if an inexperienced person performs any installation procedures incorrectly.

EG



2. Names and Operations

Operation Section (Refer to the page 1)

-  **Start/Stop button**
Pushing this button starts, and pushing again stops the unit.
- Operation lamp**
The lamp is turned on when an air conditioner is in operation.
This lamp blinks when an error occurs or a protective device is activated.
-  **Mode Select button**
Pushing this button to select an operation mode. (AUTO  /HEAT  /DRY  /COOL  / FAN ).
- Temperature setting buttons**
Changing the temperature setting.
-  **FAN speed button**
Changing the fan speed.
-  **Swing/Air direction button *1**
Use this button to set the auto swing or air direction to a specific angle.
-  **Unit Select button**
When more than one indoor unit is operated by one remote control unit, this button is used to select a unit when adjusting the air direction.
- Timer setting button**
( Setting Weekly Program)
-  **FILTER reset button**
Use this button to reset the filter sign.
When  is displayed, press this button after cleaning the filter.
-  **Ventilation button**
Use this button when you installed a fan available in the market. Pressing this button turns on and off the fan. When turning off the air conditioner, the fan will be also turned off. (While the fan is operating,  will appear in the display.)
*If  is displayed on the LCD of the remote control unit when pressing the ventilation button, no fans are installed.
-  **Inspection button**
Do not use this button.
-  **Sleeping button**
( Sleeping Function)
- Remote control sensor**
Normally, the temperature sensor of the indoor unit is used to detect the temperature. However, it is also possible to detect the temperature around the remote control unit.

*1 Do not move the flap (vertical airflow adjustment board) with your hand.
 - The flap is automatically directed down when the unit is stopped.
 - The flap is directed up during the HEAT standby. The flap starts swinging after the HEAT standby is cancelled, although the AUTO flap indication on the remote control unit is displayed during the HEAT standby.



Display Section (Refer to the page II)

- SETTING SETTING indication**
Appears when the timer program is being set.
- UNIT UNIT indication**
Indicates the unit No. of the indoor unit which is selected with the Unit Select button, or the unit in which an abnormality occurs.
- TIMER No. TIMER No. indication**
Appears when the time program is being set.
- Timer program**
: The indoor unit starts operation at the programmed time.
: The indoor unit stops operation at the programmed time.
- ▼ Today's day of the week**
Indicates today's day of the week.
- Program schedule indication**
Appears under days that are scheduled for program operation.
- Present time**
Displays the present time on a 24-hour clock. Also also, displays settings in the various setting modes.
- TIMER OFF TIMER OFF indication**
Displayed when the timer has been turned OFF.
- ERROR ERROR indication**
Displayed when a mistake is made during timer setting.
- Outing indication (Outing function)**
Appears when the outing function is set.
- Upper and lower limit indication of the outing function**
: Indicates the upper limit of the temperature
: Indicates the lower limit of the temperature
- Operation Mode indication**
Displays the selected operation mode.
(AUTO / HEAT / DRY / COOL / FAN).
- Temperature indication**
Indicates the set temperature.
- °F / °C temperature unit indication**
- Remote control sensor indication**
Appears when the remote control sensor is used.
- Centralized control indication**
Appears when operated in centralized control. If the remote control operation is not permitted to the remote unit, when the Start/Stop button, Mode Select button or Temperature setting button is pressed, flashes and rejects the change.
- Operation mode change control indication**

EG



2. Names and Operations (Continued)

Display Section (Refer to the page 4)

- Displays when an operation mode is entered by the remote control unit, while another operation mode has been already selected. This indicates that the operation mode cannot be changed.
18.  **Disabled Feature indication**
Displayed if the selected feature was disabled during installation.
19.  **GHP operation standby indication**
Appears during standby if a gas heat pump air conditioner is used.
20.  **Heating standby mode indication**
 appears when the fan of the indoor unit is stopped or in low fan speed.
21.  **Fan mode select indication**
The selected fan mode is displayed.
22.  **SWING indication**
Appears while the flap swings.
23.  **Flap position indication**
Indicates the flap position.
24.  **Filter indication**
Appears when filter needs cleaning. Clean the filter.
25.  **Inspection indication**
Appears when the protective device is activated or when an abnormality occurs.
26.  **Ventilation indication**
Appears when a fan available in the market is installed and is operating.
27.  **Oil indication**
Appears when the engine oil needs to be changed. (Appears when the gas heat pump air conditioner is used.)
28.  **Sleeping**
Appears during the sleeping function.
29.  **CAUTION**
Appears when the protective device is activated or when an abnormality occurs.
30. **Unit No. indication**
Indicates the unit No. of the selected indoor unit.
31. **TEST TEST indication**
Appears while in test operation.



3. Setting the Present Time

1. Press and hold **SET** for more than 2 seconds to enter in the present day and time setting mode.

Once you enter in the setting mode, **SETTING**, “▼”(day) and “time” flash.

2. Set “▼” to today’s day of the week.

Press **DAY** *1 to move “▼” (flashing on the display) in the order of : Su → Mo → Tu → Press to move it in the order of : Su → St → Fr →

*2 While in time setting mode, the temperature setting buttons function as **DAY** (changing day) button.

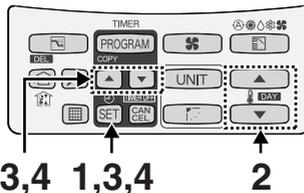
3. Press to change the present “hour” in the range of 0 to 23*2.

Set the present hour and press **SET**. The “hour” digits light up, and the “minute” digits start flashing.

*2 If the clock uses the 12 hours AM/PM setting, the hour is displayed in the range of AM 0 to 11/PM 0 to 11.

4. Press , to change the present “minute” in the range of 0 to 59.

Set the present minute and press **SET**. The day and time are set and finishes the setting mode.



EG

Note

- * The unit returns to the normal mode if the **CAN** is pressed or there is no operation made in 3 minutes during the setting. In this case, all the settings in progress will be lost.
 - * If the present time is invalid, “- - : - -” is displayed.
- If the power failure for more than 1 hour occurs, check if the set data of day and time are valid.



4. Weekly Program Function

Checking Weekly Timer

Set the weekly program assigning a given timer to each day of the week.

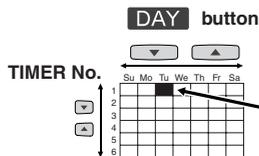
Maximum of 6 programs a day and 42 programs a week can be set.

Select the day and the TIMER number you want to program.

Program image diagram

Vertical scale indicates the
TIMER No., and horizontal scale
indicates the day.

* If the day is changed, the
TIMER No. returns to "1".



1. Press **PROGRAM** to enter the program confirmation mode
"CH" and start setting.

Once you enter the program confirmation mode, the present day is indicated as TIMER No. "1".

2. **Select the day.**

Press **DAY** and **▲** / **▼** to move the "▼"
horizontally on the day to select.

Press **▲** to move "▼" (flashing on the display)
in the order of : Su → Mo → Tu...

Press **▼** to move it in the order of : Su → Sa → Fr...

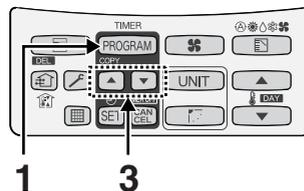
"-- : --" is displayed when the program is not set.

3. **Select a Timer number.**

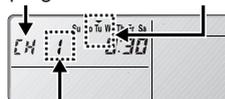
Press **▲** / **▼** to select a TIMER No. from 1 to 6.

Press **▲** to move up from 1.

Press **▼** to move down from 3.



program CCheck



TIMER No. 1~6



• Changing the Program Timer

To change the program setting, follow the steps below.

1. **Select the program you want to change in the program confirmation mode, and press **SET**. The enters the setting mode of the program currently displayed.**

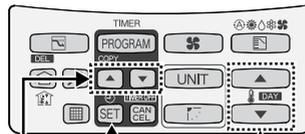
* In the program setting mode, **SETTING**, "hour", "minute" and "item" flash on the display.

2. **Set the "hour". (program step 1)**

Press **▲** / **▼** to set the "hour".
Confirm the "hour" and press **SET**. The enters the program changing mode **P1** (setting of the "minute").

3. **Set the "minute". (program step 2)**

Press **▲** / **▼** to set the "minute".
Confirm the "minute" and press **SET**. The unit enters **P3** (the program pattern selection mode).

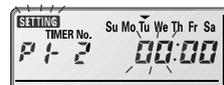


2,3,4

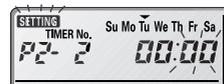
1,2,3,4

4

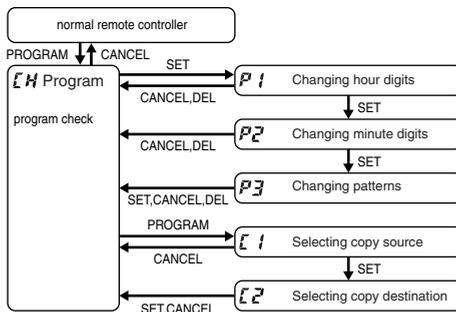
Program step 1



Program step 2



EG





4. Weekly Program Function (Continued)

4. Set the program pattern. (program step 3)

There are 4 program patterns.
Pressing / repeats the following display patterns.

Pattern 1

The indoor unit starts operation at the programmed time.

Pattern 2

The indoor unit stops operation at the programmed time.

Pattern 3

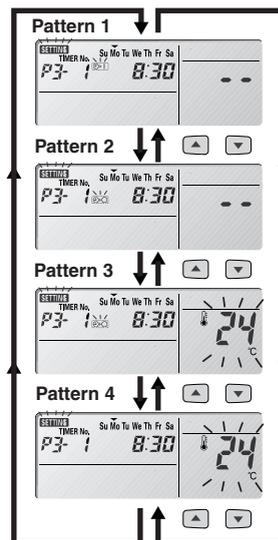
The indoor unit starts operation at the programmed time and changes the temperature settings.

Press / to change the temperature setting.

Pattern 4

The indoor unit changes the temperature setting at the programmed time.

Press / to change the temperature setting.



Select the program pattern and press . The program timer setting is confirmed and the unit enters the confirmation mode .

Note

- If you press during the setting, it returns to the program confirmation mode.
- If there is no operation made for 3 minutes during the setting, it returns to the normal mode. In this case, all the settings in progress will be invalid.



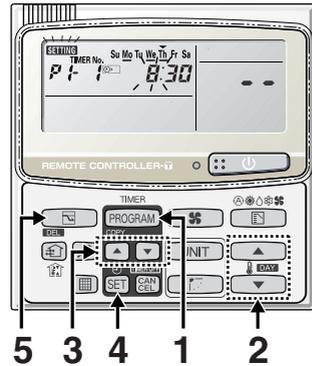
• Deleting the Program Timer

To delete the program timer setting, follow the steps below.

1. Press **PROGRAM** to enter the program confirmation mode.
2. Press **DAY** and **▲** / **▼** to select the day of the program you want to delete.
3. Press **▲** / **▼** to select a **TIMER No.** (from 1 to 6).
4. Press **SET** to display the program setting mode P i .
5. Press **DEL** to delete the program.

Note

- After deleting, the unit returns to the program confirmation mode P H .
- If you press **CAN DEL** during the setting, the unit returns to the program confirmation mode.
- If there is no operation made for 3 minutes during the setting, the unit returns to the normal mode.



EG



4. Weekly Program Function (Continued)

• Invalidating Program Timer

If you want to adjourn the program operation for more than 1 week, you can invalidate all the timer settings. Once the timer settings are invalidated, the program will not be operated until the invalidation is cancelled.

<<How to invalidate the program timer>>

Press and hold  for more than 2 seconds.

TIMER OFF is displayed and the programs will be invalidated from the next one.

<<How to cancel the program timer invalidation>>

Press and hold  for more than 2 seconds.

TIMER OFF disappears and the programs will be validated from the next one.



If Power Failure Occurred

If a power failure occurs when air conditioner is in use, the air conditioner is in the stop mode after the power recovery.

If the power recovers in a short time period, the program after the recovered time will be valid.

If the power recovered more than 1 hour after the failure, the present time information will be lost. In this case, the program will not be operated.

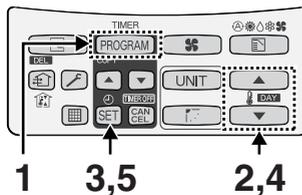


• Duplicating the Program Timer

You can duplicate the preset program by day.

Select the copy source.

1. If **PROGRAM** is pressed in program checking mode , it enters the copy mode (Selecting the copy source C1) of the program timer. While in the copy mode of the program timer, **SETTING** and  (day) of the copy source flash on the display.
2. Press  /  to select the day of the copy source. Select the copy destination.
3. If **SET** is pressed in the mode of selecting the copy source C1, it enters the copy mode (Selecting the copy destination C2) of the program timer.
4. Press  /  to select the day of the copy source. Then, press **SET** to complete copying and return to the program checking mode.



Note

The program will be overwritten if the preprogrammed group is selected as a copy source.

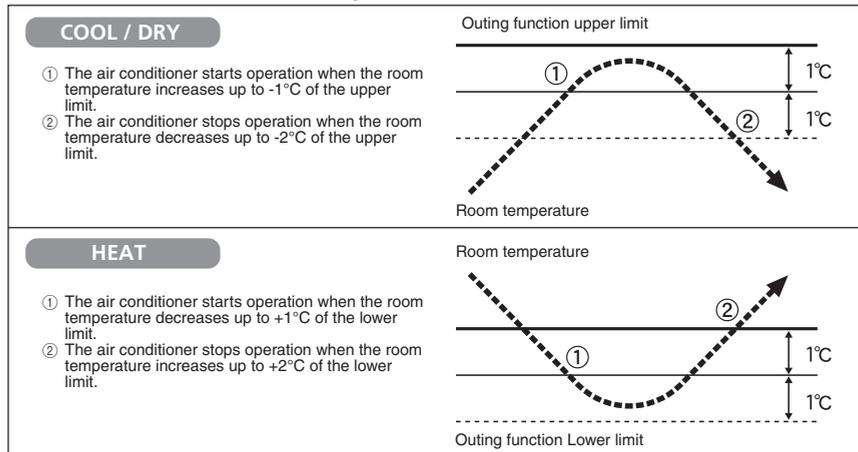
EG



5. Outing Function

Outing function is a function that prevents the room temperature from increasing too much (or decreasing too much) when no one is in the room.

General Performance of the Outing Function



[Precautions]

- The outing control only starts/stops the air conditioner. It does not change the operation mode/temperature setting.
Therefore, the operation mode/temperature needs to be set beforehand so that the outing function turns on the air conditioner with your desired operation mode/temperature setting.
- If the room temperature rapidly changes, the room temperature may get over the upper or lower limit when the outing function is activated.
- The outing function is invalid during FAN/AUTO operation mode.
- The air conditioner's stop order (stated in 2 / above) is valid only when the outing function is operated. If operated using other remote control unit (or a centralized control device such as a system control), the outing function does not work.



• Setting the Outing Function

1. Press and hold for 2 seconds to display the upper limit temperature setting screen.
 , and the upper limit temperature start flashing.
(The default value of the upper limit temperature is 38 °C.)
2. Press / to select the upper limit temperature and press to fix the value. The lower limit temperature setting screen is displayed.
3. Press / to select the lower limit temperature, and press to fix the value. The outing function setting is completed. (The default value of the lower limit temperature is 10 °C.)



2



3

• Canceling the outing function

Press and hold for 2 seconds while the outing function is set.



• Outing function indication

Outing function indication	Status
Off	The outing function is not set.
Flashing	The outing function is now being set, or under operation.
Lighting	Although the outing function is set, not under operation.

EG

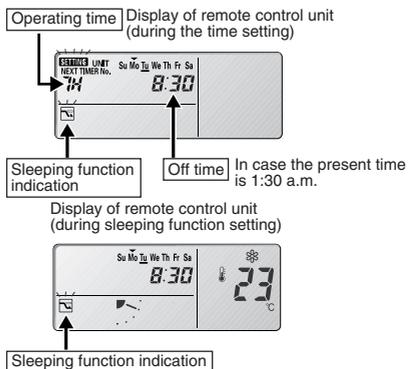
Note

A remote controller loses outing function operation information when it is cut for more than one hour during the outing function operation by electricity. It reverts from the blackout, and an air conditioner does not drive in outing function when operation is started. At this time, an air conditioner does not stop at outing function.



6. Sleeping Function

- * This function leads you to a comfortable sleep and changes the room temperature during your sleep.
- * You can set the off timer every one hour from 1 to 10 hours.



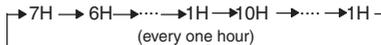
- * If no operation is made for 3 minutes, the time setting mode will be automatically finished.

Ex. In case of 7 hours timer

1. SLF button

Press

- Each time the button is pressed, the indication changes in the following order.



(Press to stop the time setting.)

2. Press

- The timer operation starts.

When the off time comes:

- The indoor unit stops.
 - * The temperature returns to the setting at the time when sleeping function operation started.

To cancel the sleeping function operation:

- Press .
 - * The temperature setting remains at the time cancelled.
- The following buttons also cancel the sleeping function operation.

button

Stop the indoor unit after the sleeping function operation is cancelled.

button

Changes the operation mode after the sleeping function operation is cancelled.



- If  button does not work.

Or if the operation does not start even if  is pressed.

Check the following table.

Item	Display of the remote control unit (Lighting/flashing indication)	Contents
1	 The Error indication flashes (for several seconds).	The clock is not set.
2	 "This function is not available" indication lights up (for several seconds).	When the operation mode is set to AUTO or FAN, this function is not available.
3	 Centralized control indication flashes (for several seconds).	The centralized control device is prohibited from starting/stopping the unit or change the temperature setting.

The sleeping function operation will be cancelled in the following cases:

- 1: When the unit is operated to stop or change the temperature setting by the other remote control unit or centralized control device.
- 2: When the unit is operated to stop or change the temperature setting with the weekly program function / outing function.
- 3: When the centralized control unit is prohibited from stopping the unit or changing the temperature setting .

EG

Note

Trouble	Possible Cause/Remedy
The temperature setting does not decrease (increase).	The temperature over the upper or lower limit or each operation mode cannot be set.
Operation under the sleeping function does not finish.	Note if you change the time after the sleeping function started. The operation does not finish until it reaches to the set starting time.