

OWNER'S & INSTALLATION MANUAL

AIR CONDITIONER

Please read this manual carefully before operating your set and retain it for future reference.

SIMPLE WIRED REMOTE CONTROLLER

PQRCHCSA



MFL71695701
Rev.03_110620

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Safety Precaution

- The installation requires expert skills, and it should be installed by the service center or other shops specialized in the installation and recognized by our company.
- For all the problems arising after installation by someone who has no relevant qualifications, our company will not provide free service.
- The following safety cautions are provided to prevent unexpected dangers or losses.

⚠ WARNING : If the user does not follow the mandatory items, it may result in serious injury or death.

⚠ CAUTION : If the user does not follow the mandatory items, it may cause personal injury or property damage.



: Warning and Caution are to call the user's attention to the possible danger. Read and follow them carefully in order to prevent a safety accident.



: Warning and Caution are indicated in this guide and the product itself to help protect the users from danger.

⚠ WARNING

■ Installation

Be sure to request to the service center or installation specialty store when installing products.

- It will cause fire or electric shock or explosion or injury.

Request to the service center or installation specialty store when reinstalling the installed product.

- It will cause fire or electric shock or explosion or injury.

Do not disassemble, fix, and modify products randomly.

- It will cause fire or electric shock.

■ In-use

Do not place flammable stuffs close to the product.

- It will cause fire.

Do not allow water to run into the product.

- It will cause electric shock or breakdown.

Do not give the shock to the product.

- It will cause breakdown when giving the shock to the product.

Request to the service center or installation specialty store when the product becomes wet.

- It will cause fire or electric shock.

Do not give the shock using sharp and pointed objects.

- It will cause breakdown by damaging parts.

⚠ CAUTION

■ In-use

Do not clean using the powerful detergent like solvent but use soft cloths.

- It will cause fire or product deformation.

Do not press the screen using powerful pressure or select two buttons.

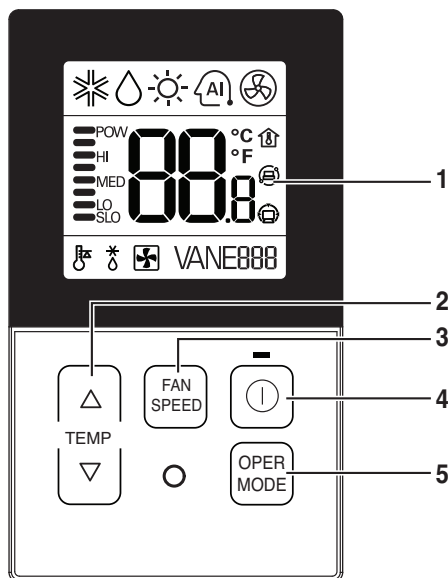
- It will cause product breakdown or malfunction.

Do not touch or pull the lead wire with wet hands.

- It will cause product breakdown or electric shock.

Part Description

Simple Wired Remote Controller



1. Operation Display Panel

2. TEMP Button

- To adjust the desired room temperature in cooling, heating and dry mode.

3. FAN SPEED button

- To adjust the fan speed.

4. On/Off button

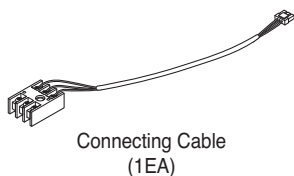
- To turn on/off the air conditioner.

5. OPER MODE button

Each function will be shown on the display panel for 3 seconds or so when the power is applied at first.

* Not available on all models.

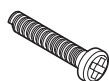
Accessory



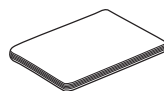
Connecting Cable
(1EA)



Type A screws
(2EA)



Type B screw
(1EA)

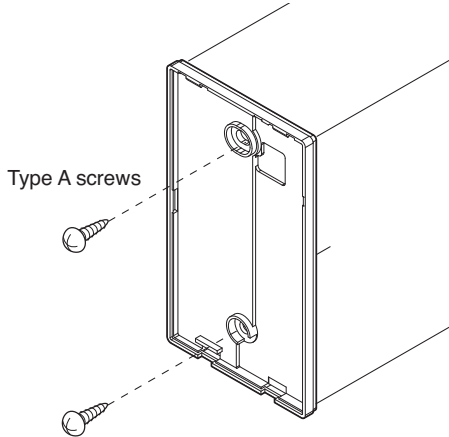


Owner's & Installation
Manual

Installation instruction

1. Please fix tightly using provided screws(Type A) after placing remote controller setup board on the place where you like to setup.

- Please set it up not to bend because poor setup could take place if setup board bends.
- Please set up remote controller board fit to the reclamation box if there is a reclamation box.



2. Can set up Wired remote controller cable into three directions.

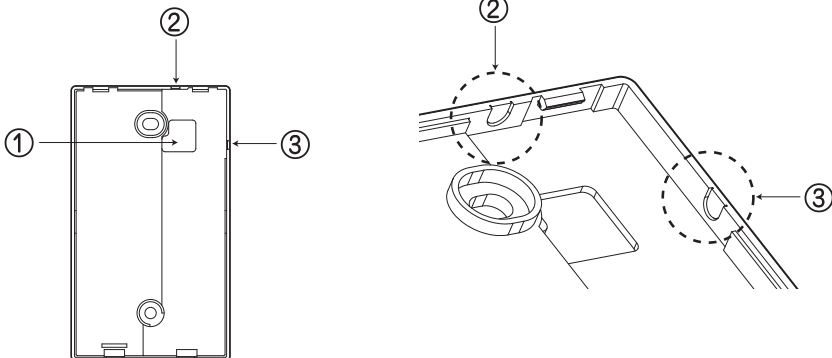
- Setup direction: the surface of wall reclamation, upper, right
- If setting up remote controller cable into upper and right side, please set up after removing remote controller cable guide groove.

※ Remove guide groove with long nose.

① Reclamation to the surface of the wall

② Upper part guide groove

③ Right part guide groove



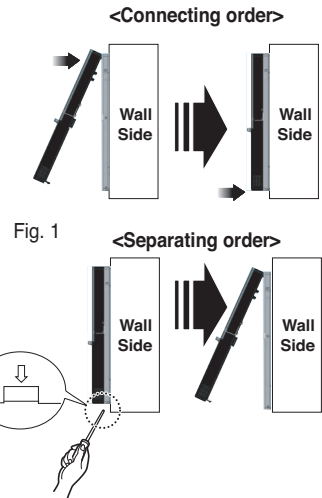
<Wire guide grooves>

3. Please fix remote controller upper part into the back plate attached to the surface of the wall, as the Fig. 1, and then, connect with back plate by pressing lower part.

- Please make sure to leave no gaps on the top, bottom, left or right sides between the remote controller and back plate.
- Before assembly with the back plate, arrange the Cable not to interfere with circuit parts.

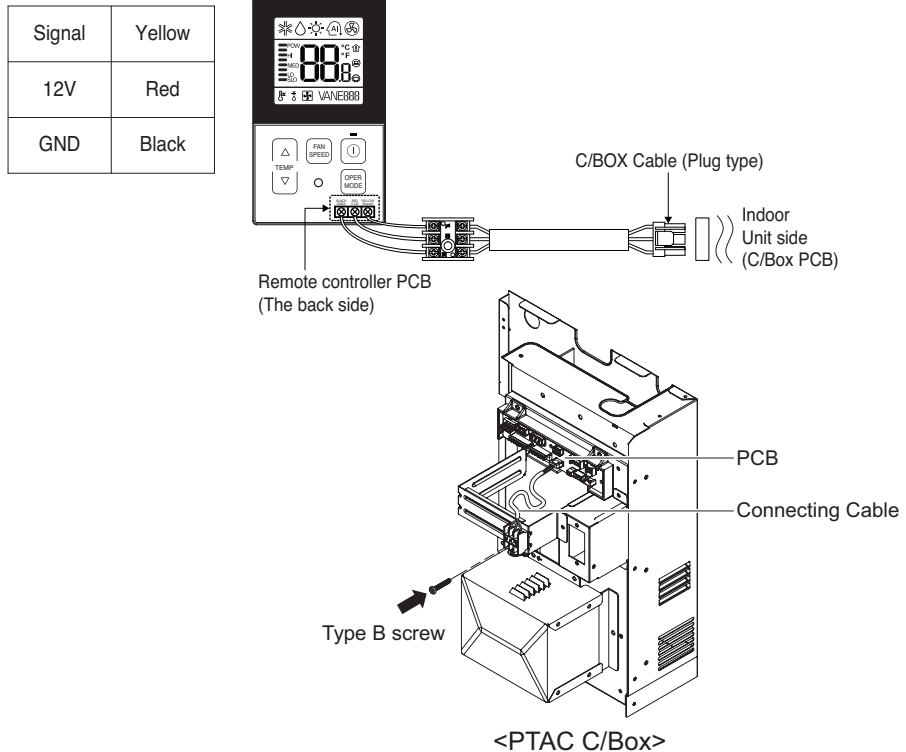
Remove remote controller by inserting a screw-driver into the lower separating holes and twisting to release the controller from backplate.

- There are two separating holes. Please individually separate one at a time.
- Please be careful not to damage the inside components when separating.

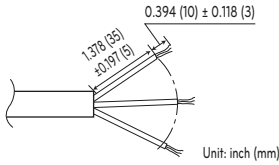


4. Please refer to the following directions when connecting the indoor unit and the wired remote controller together.

- 1) Please connect the cables as shown in the figure below when connecting the plug type cable from the indoor unit's C/BOX.

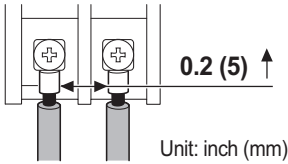


- 2) When connecting Terminal Blocks of the indoor C/BOX and the wired remote controller, refer to the steps below.
- ① Remove the screw on the cable which is fastened to the wired remote controller's Terminal Block by loosening with a screw driver.
 - ② Remove the peel it as shown in the figure below.



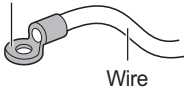
※ You need to purchase additional Cable
(Specification of Cable : AWG 24, 3 conductor.)

- ③ Connecting the Wires.



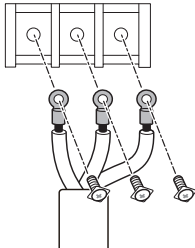
※ The distance between wires should be more than 0.2 inches (5 mm).

Circular Terminal



※ Connect the wire after inserting the circular terminal.

- ④ After pairing the wires with the terminal block, fasten them securely by tightening the screws.

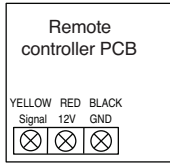


- ⑤ Please connect the Terminal blocks of indoor unit's C/BOX and wired remote controller by referring to the images and contents shown below.

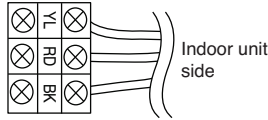
Connect the yellow(signal) part of the wired remote controller's terminal block and the 'YL' part of the indoor unit's terminal block.

Connect the red(12V) part of the wired remote controller's terminal block and the 'RD' part of the indoor unit's terminal block.

Connect the black(GND) part of the wired remote controller's terminal block and the 'BK' part of the indoor unit's terminal block.



<Remote controller>



<Indoor Terminal Block>

Remote controller PCB Terminal block Remark	Indoor Terminal block	Function
YELLOW	YL	Signal
RED	RD	12V
BLACK	BK	GND

- * In case of loosened screws or insufficient contact between the terminal and the wire, remote controller may not function properly.
- * When the power is off on the remote controller, check the connection between the remote controller and Terminal Block.
- * Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- * Over-tightening the terminal screws may break wires and terminal block structure.

⚠ CAUTION

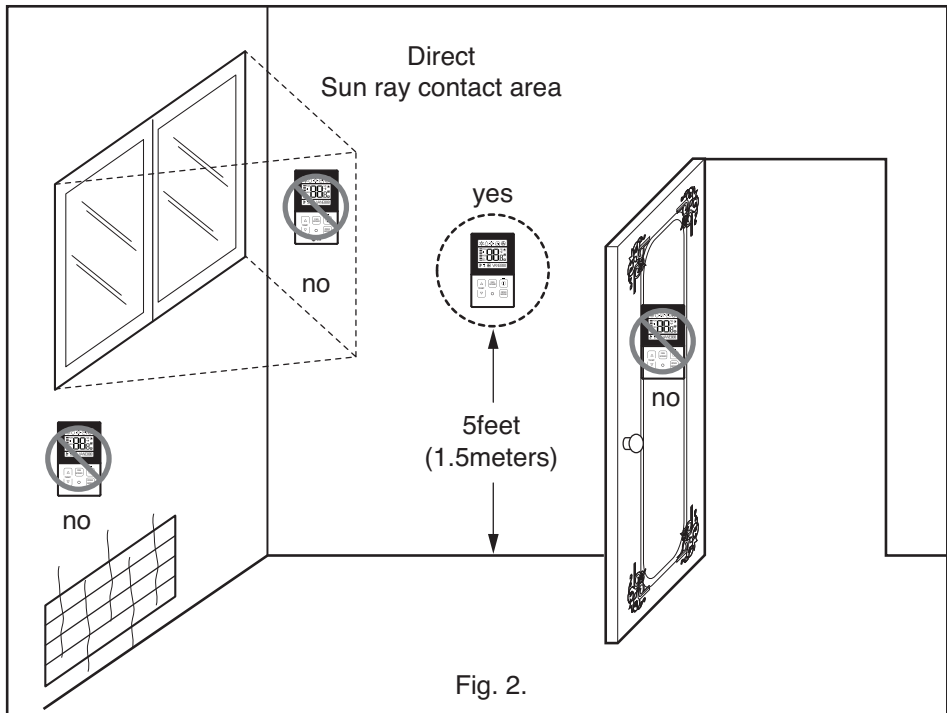
- Installation work must be performed in accordance with the national wiring standards and local by authorized personnel only.
- Installations must comply with the applicable local/national or international standards.
- AWG#22, 3 core shielded is recommended when using the large hole in the center of the back plate.
- AWG#24, 3 core shielded is recommended when using the side or top knock-out of the back plate.
- When installing the wired remote controller, do not bury it in the wall.
(It can cause damage in the temperature sensor.)

Remote controller installation

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature. Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.

Do not install the remote controller where it can be affected by:

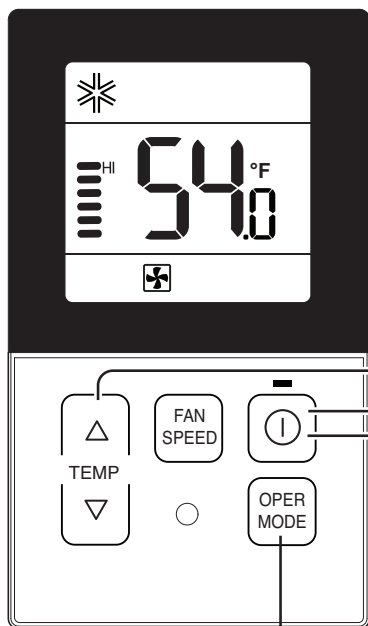
- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with LCD display. For proper display of the remote controller LCD's, the remote controller should be installed properly as shown in Fig. 2. (The standard height is 4ft~5ft(1.2m~1.5m) from floor level.)



Owner's instruction

Standard Operation - Cooling Mode

It cools the room by comfortable and clean wind.



- 1 Cooling operation will begin if you press the  button.
-  is displayed on the display screen.

- 2 Press the TEMP button and set the desired room temperature lower than the current room temperature.



A press of the button will increase the desired temperature by 1 °F

A press of the button will decrease the desired temperature by 1 °F .

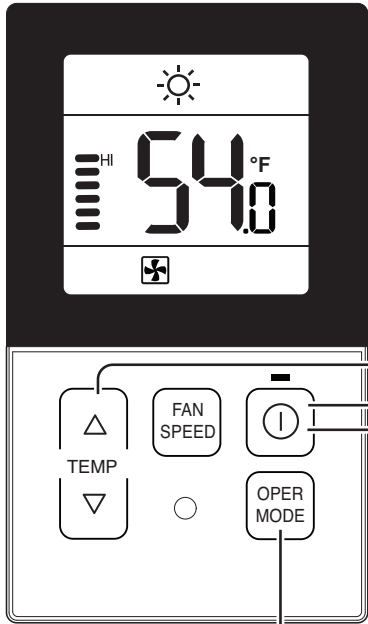
- Desired temp range : 54 °F ~ 86 °F (12.2 °C ~ 30 °C)
- The desired temp range may vary depending on the temp range set in the product.
- If the desired temperature is set higher than the current room temperature, the cooling function will not begin and just the blowing operation will continue.

- 3 If you press the OPER MODE button during the operation, the operation mode will be changed in the order of heating, Cooling, dry and fan operation.

- 4 If you press the  button, the cooling operation will stop.

Standard Operation - Heating Mode

It supplies warm wind to the indoor



1 If you want to set the heating operation, press the button. And press the button.

- is displayed on the display screen.

2 Set the desired room temperature higher than the current room temperature.



A press of the button will increase the desired temperature by 1 °F

A press of the button will decrease the desired temperature by 1 °F

- Desired temp range : 54 °F ~ 86 °F (12.2 °C ~ 30 °C)

- The desired temp range may vary depending on the temp range set in the product.

- If the desired temperature is set lower than the current room temperature, the heating function will not begin.

3 If you press the OPER MODE button during the operation, the operation mode will be changed in the order of heating, Cooling, dry and fan operation.

4 If you press the button, the heating operation will stop.

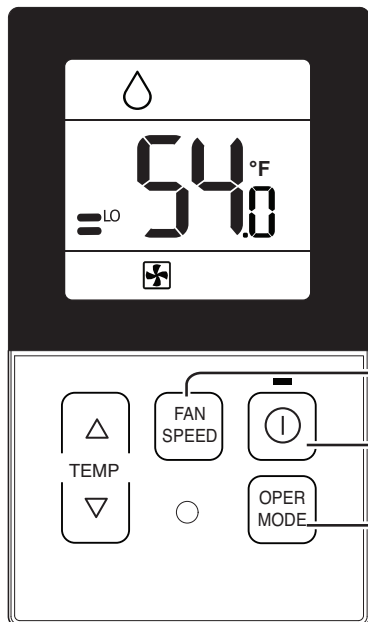
What is the three-minute delay function?

It will take time for the product to blow warm air. The delay is to protect the compressor. The room will be heated with warm air after three minutes when the compressor begins operation.

■ The cooling-only model will not do heating function.

Standard Operation - Dry Mode

It removes humidity while air-cooling weakly.

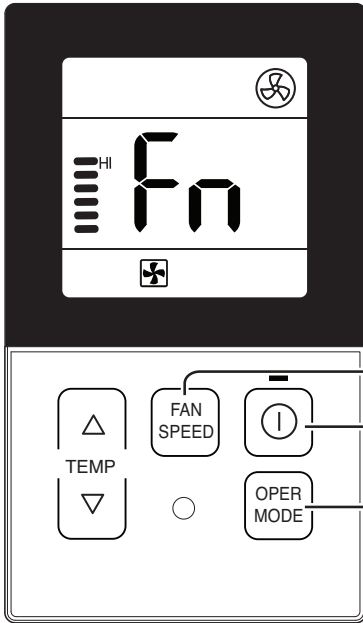


- 1** After operating the product by pressing the  button, set up the dry (Dehumidification) by pressing the  button.
-  is displayed on the display screen.
- 2** When the dry operation is selected, the pre-set temperature will be shown on the display window as shown on the left side.
- The temperature setting can be adjusted during operation this mode.
- 3** Press the  button to select airflow rate [SLO→LO→MED→HI].
- The initial fan speed of humidity removal operation is "LO".

- In rainy season or high humidity climate, it is possible to operate simultaneously dry mode and cooling mode to remove humidity effectively.

Standard Operation - Fan Mode

It blows the air as it is in the indoor, not the cold wind.



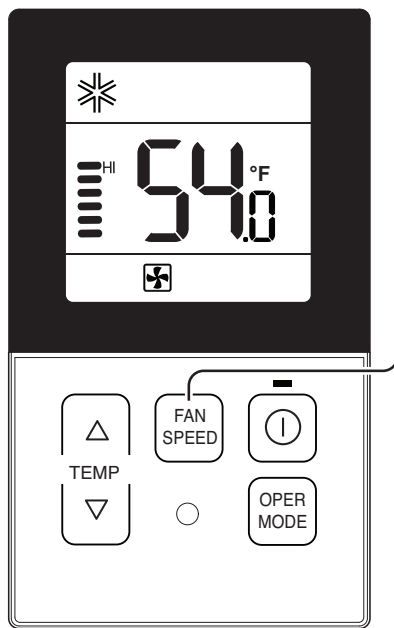
1 After operating the product by pressing the  button, set up the fan operation by pressing the  button.

- When the fan operation is selected, **Fn** will be shown on the display window as shown on the left side.
-  is displayed on the display screen.
- The temperature setting can not be adjusted during operation this mode.

2 Press the  button to select airflow rate [SLO→LO→MED→HI].

- Ventilation operation does not release cool wind but general fan.
- Because it releases the wind that has no temperature difference from the room, it functions to circulate the inside air.

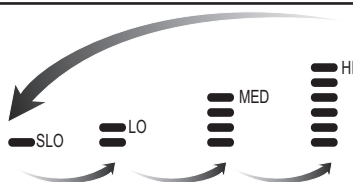
Function Setting - Fan Speed Selection



1 Select the proper fan speed which you want by pressing the  button on the remote controller.

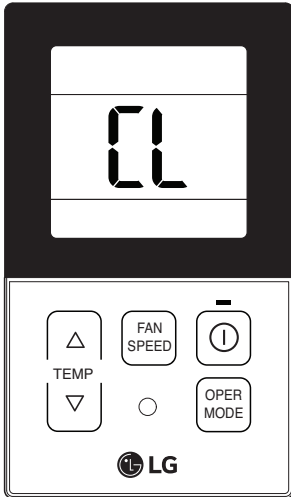
- If you press the  button, the fan speed will change in the order of [SLO→LO→MED→HI].
- The initial fan speed is "Lo".
- If the product is not compatible with the fan speed control, it will not function as per your selection.

Fan Speed Selection in Heating, Cooling, Dry and Fan Operation.



Function Setting - Child Lock

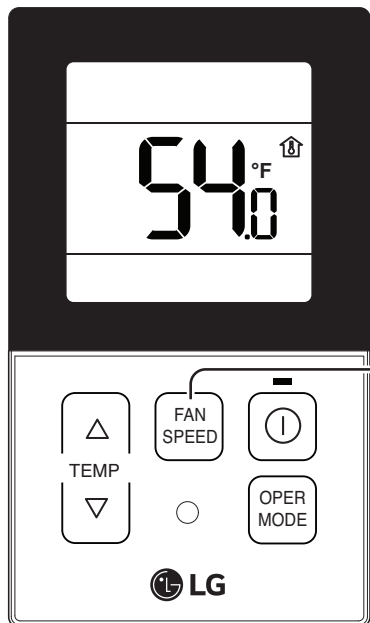
It is the function to use preventing children or others from careless using.



- 1** During the operation, when pressing the button and button for approx. 3 seconds, the 'Child Lock' function can be used.

- At the time of initial setting of the 'Child Lock', the 'CL' will be indicated approx. 3 seconds at the temperature display section before resuming to the previous mode. After the setting of the 'CL', if another button is setup, the button can not be recognized as the 'CL' is indicated at the temperature display section for approx. 3 seconds.
- 2** If the 'CL' function is wanted to be used under the operation standby state, press the button and button for approx. 3 seconds under the standby mode state and the system will be the 'CL' state.
- 3** As for the releasing method, when pressing the button and button for approx. 3 seconds, the 'CL' function can be released.

Function Setting - Room Temperature Check

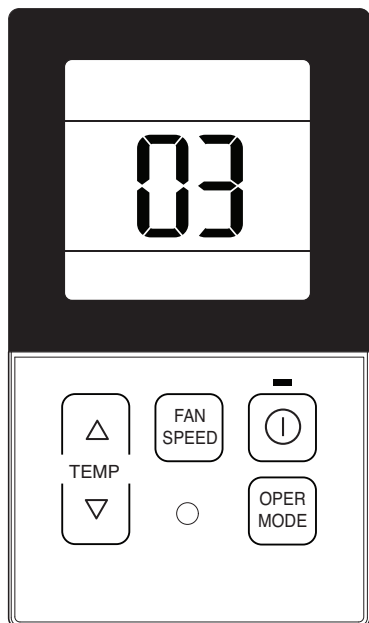


- 1 When pressing the  button of the remote controller adjustment section for approx. 3 seconds, the room temperature will be indicated for about 5 seconds before resuming to the previous display panel.

In the case of the room temperature display, the room temperature can be different in accordance with the setting of the remote controller's room temperature detection selection.

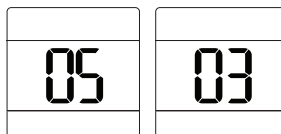
* As the temperature distribution of the remote controller Installation space is not uniform, slight difference can be generated between the actually felt temperature and the room temperature indication of the remote controller.

Self-diagnosis for Trouble Mode



It automatically runs a self-diagnosis when there is a trouble detected in the system.
It displays the trouble mode number with maintenance CODE.

<Individual control>



<Group control>

※ When detecting an error during group control, the system will display as below.

<In case of CH05 error, these two characters CH and 05 are alternatively displayed.>



In order to expedite a service, please remember the error number and provide it when consulting an installer.

Outage Compensation Function

If power supply fails due to outage or other reasons, the outage compensation function automatically retrieves the operating conditions previously programmed before the power failure. Thus, you don't need to press any buttons.

(Additional functions will not be retrieved automatically.)

Checkups before reporting breakdown

Please first check the items below for product's defects before consulting to service center.

Symptoms	Check-up	Management
It has no power on.	• Is air-conditioner's power on?	• Please check up circuit breaker. • Please check up wire remote controller's setup condition.
	• Are air-conditioner and remote controller properly connected with cable?	• Please connect air-conditioner and remote controller cable.
	• Is cable connection correct?	• Please check again referring to setup method at the manual.
It doesn't release cool wind.	• Is desired temperature setup lower than current temperature?	• Please set up desired temperature lower than current temperature.
Error is displayed on remote controller display panel.	• Does remote controller display panel indicate 'CH03'?	• Please check again wire remote controller's setup condition. • Please check again connection condition of air-conditioner and remote controller cable.

