LG

Life's Good

Installation & Operation

LG Programmable Thermostat

• Please read this Installation & Operation manual completely before installing the product.
• Installation work must be performed in accordance with the national wiring standards and local code by authorized personnel only.
• Please retain this manual for future reference after reading it thoroughly.

Type : LG Programmable Thermostat
Models : PREMTB10U

www.lg.com

TIPS FOR SAVING ENERGY

Here are some tips that will help you minimize the power consumption when you use the air conditioner. You can use your air conditioner more efficiently by referring to the instructions below:

- Do not cool excessively indoors. This may be harmful for your health and may consume more electricity.
- Block sunlight with blinds or curtains while you are operating the air conditioner.
- Keep doors or windows closed tightly while you are operating the air conditioner.
- Adjust the direction of the air flow vertically or horizontally to circulate indoor air.
- Speed up the fan to cool or warm indoor air quickly, in a short period of time.
- Open windows regularly for ventilation as the indoor air quality may deteriorate if the air conditioner is used for many hours.
- Clean the air filter once every 2 weeks. Dust and impurities collected in the air filter may block the air flow or weaken the cooling / dehumidifying functions.

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty purposes. Write the model number and the serial number here:

Model number :

Serial number :

You can find them on a label on the side of each unit.

Dealer's name :

Date of purchase :

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product.

⚠ WARNING

It can result in serious injury or death when the directions are ignored.

⚠ CAUTION

It can result in minor injury or product damage when the directions are ignored.

⚠ WARNING

- Installation or repairs made by unqualified persons can result in hazards to you and others.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

Installation

- For electrical work, contact the dealer, seller, a qualified electrician, or an authorized service Center. Do not disassemble or repair the product. There is risk of fire, electric shock, explosion, equipment malfunction, or injury.
- Request to the service center or installation specialty store when reinstalling the installed product. There is risk of fire, electric shock, explosion, equipment malfunction, or injury.
- Do not disassemble, fix, and modify products randomly. There is risk of fire, electric shock, explosion, equipment malfunction, or injury.
- The product shall be installed according to the national standards and local code.
- Apply totally enclosed noncombustible conduit in case of local building code requiring plenum.

In-use

- Do not place flammable stuffs close to the product. There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- Do not allow water to run into the product. There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- Do not give shock to the product.There is risk of fire, electric shock, explosion, equipment malfunction or injury.
- Request to the dealer, seller, a qualified electrician, or an authorized Service Center when the product becomes wet. There is risk of fire, electric shock, explosion, equipment malfunction, or injury.

- Do not give shock using sharp and pointed objectsThere is risk of fire, electric shock, explosion, equipment malfunction or injury.

- Do not touch or pull the lead wire with wet hands. There is risk of product breakdown or electric shock.

⚠ CAUTION

In-use

- Do not clean using powerful detergents like solvent but use soft cloths. There is risk of fire, electric shock, explosion, equipment malfunction or deformation.

- Do not press the screen using powerful pressure. There is risk of product break-down or malfunction.

TABLE OF CONTENTS

PART DESCRIPTION

Name and Function of Thermostat
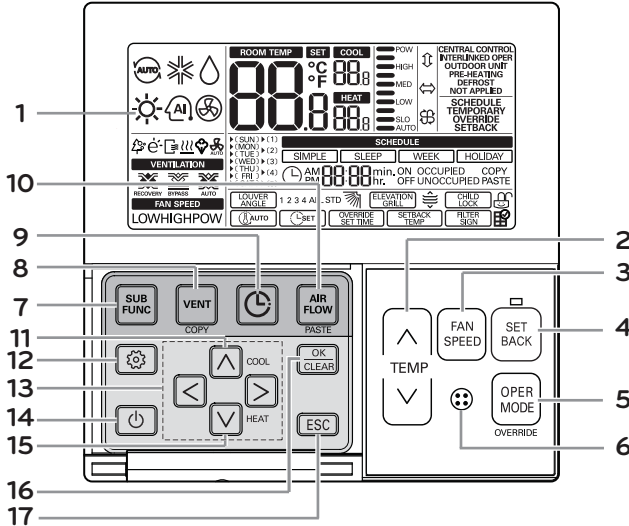
1. Operation indication screen
2. Set temperature button
3. Fan Speed button
4. Set back button
5. Operation mode selection button
6. Wireless Thermostat receiver
   - Some product don't receive the wireless signals.
7. Sub function button
8. Ventilation button
9. Reservation button

10. Air flow button
11. Cooling desired temperature
12. Function setting button
13. Up, Down, Left, Right button
14. On/Off button
15. Heating desired temperature
16. Setting/Cancel button
17. Exit button

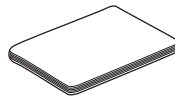❈ Some functions may not be operated and displayed depending on the product type.
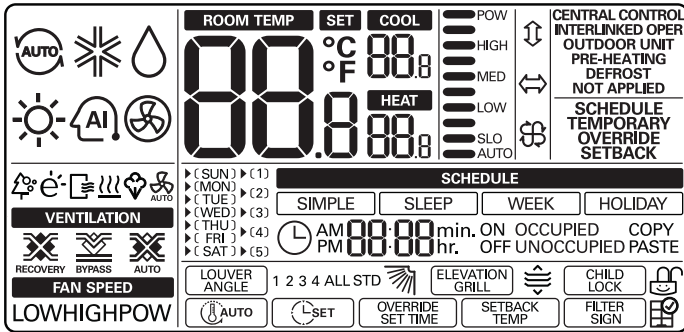
Accessory

| Connection Cable (1EA, 32ft (10m)) | Screw (4 EA) | Installation & Operation Manual |
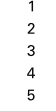
Icon description

Function	Icon	Description
Operation mode	(AUTO)	**Auto mode** - Product is change operating mode cooling or heating automatically.
	※	**Cooling mode** - Product is running cooling mode.
	◇	**Dehumidification Mode** - Product is running dehumidifying mode.
	☼	**Heating mode** - Product is running heating mode.
	⊗	**Fan only operating mode** - Product is running just fan operating.
Sub function	🍃	**Plasma Purification** - Product is operating Plasma Purification filter.
	é-	**Energy-Saving Cooling Operation** - Product is running cooling mode in limited set temperature for energy saving.
	▣	**Automatic Drying** - Indoor unit is operating automatic drying.
	⟨⟨⟨	**Electric Heater** - Product is operating electric heater in heating mode.
	♧	**Humidifier** - Product is operating Humidifier.
	⅋AUTO	**Fan Auto function** - Indoor unit enable fan auto function. - Indoor unit doesn't operate fan when compressor off

ENGLISH
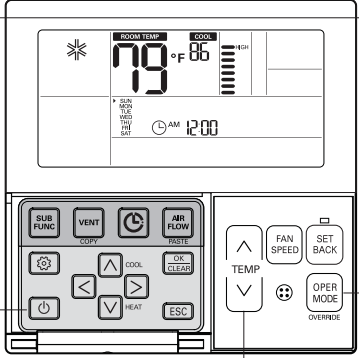
Function	Icon	Description
Tempera-ture	ROOM TEMP 88	**Current temperature** - Display current room temperature.
	COOL 88.8	**Cooling set point temperature** - temperature set point for cooling operation.
	HEAT 88.8	**Heating set point temperature** - temperature set point for heating oper-ation.
Fan Speed	POW HIGH MED LOW SLO AUTO	**Display current wind strength.** **POW :** wind strength - power **HIGH :** wind strength - high **MED :** wind strength - medium **LOW :** wind strength - low **SLO :** wind strength - weak **AUTO :** wind strength - automatic
Air Flow	⇕	**Louver up-down swing** - Indoor unit louver operate up-down swing.
	⇔	**Louver left-right swing** - Indoor unit louver operate left-right swing.
	⊞	**Louver Swirl swing** - Indoor unit louver operate paired opened cross swing.
Controller mode	SCHEDULE	**Schedule operation mode(Simple / sleep/ week / holiday)** - Controller operate in accordance with schedule reservation
	TEMPORARY	**Temporary mode** - Setting mode change temporarily
	OVERRIDE	**Schedule override mode** - Occupied/unoccupied state change
	SETBACK	**Set back operation mode** - Controller operate set back operation.
Product state monitoring	CENTRAL CONTROL	Command received from central controller or outdoor unit
	INTERLINKED OPER	Slave indoor unit on a heat pump system. Prevents mode change not compatible with current outdoor unit mode.
	OUTDOOR UNIT	Outdoor unit running
	PRE-HEATING	Indoor unit pre-heating operation running
	DEFROST	Defrost operation running
	NOT APPLIED	Function not applied

ENGLISH
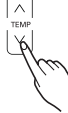
Function	Icon	Description
Schedule Reservation	SIMPLE	Simple reservation in operation
	SLEEP	Sleep reservation in operation
	WEEK	weekly reservation in operation
	HOLIDAY	Holiday reservation in operation
Schedule Reservation & Time	SUN MON TUE WED THU FRI SAT	Day of week SUN: Sunday / MON: Monday / TUE: Tuesday WED: Wednesday / THU: Thursday / FRI: Friday SAT: Saturday
	1 2 3 4 5	The number of weekly reservation event
	AM PM	Time - AM/PM
	88:88	Time – value of hour / minute
	min. hr.	min.: minute / hr. : hour
	ON OFF	Turn on/off by schedule reservation
	OCCUPIED UNOCCUPIED	Display weekly reservation occupied / unoccupied state
	COPY PASTE	Weekly reservation schedule data copy / paste
Function setting	LOUVER ANGLE	Louver angle setting step
	1 2 3 4 ALL STD	1,2,3,4,ALL : Louver number / STD: Standard angle set
	〰	Louver angle state
	ELEVATION GRILL	Elevation grill setting step

Function	Icon	Description
Function setting	$\hat{\underline{\underline{\underline{\vee}}}}$	Grill state $\hat{\underline{\underline{\ }}}$: up / $\underline{\underline{\ }}$: stop / $\underline{\underline{\underline{\vee}}}$: down
	CHILD LOCK	Child lock setting step
	🔒	🔒 :Child lock set / 🔓 : Child lock cancel
	AUTO	Minimum difference value setting step between cooling / heating set points
	SET	Current time setting step
	OVERRIDE SET TIME	Schedule override timer setting step
	SETBACK TEMP	Default Set back cooling / heating temperature set points setting step
	FILTER SIGN	Filter sign clear setting step
	🗓	Indoor unit air filter cleaning Alarm

OPERATION INSTRUCTION

Standard Operation - Cooling Mode

1 Press ⏻ button to turn on the indoor.

2 Press [OPER MODE] button to select Cooling operation mode.

3 Adjust the desired temperature by pressing [TEMP] buttons.

When setting the desired temperature higher than room temperature, only ventilation wind is blow out instead of cooling wind.

❈ Setting temperature range :
Option 1. 64~86 °F (18~30 °C) (default setting)
Option 2. 64~99 °F (18~37.5 °C)

What is the three-minute delay function?

The function to protect the compressor delays the output of cool air when operating instantly after interrupting the cooling mode .

Cooling mode restarts after 3 minutes when the compressor starts to operate.

- 87~99 °F (30.5~37.5 °C) When setting the desired temperature, the indoor unit shuts off on condition that the indoor temperature is lower than the desired temperature.
- When Using a central controller, a displayed value of the desired temperature may differ depending on a function of the product.

Standard Operation - Power Cooling

1 Press ⏻ button to turn on the indoor.

2 Press OPER MODE button to select cooling operation mode.

3 Press FAN SPEED button continuously until 'Po' displayed.
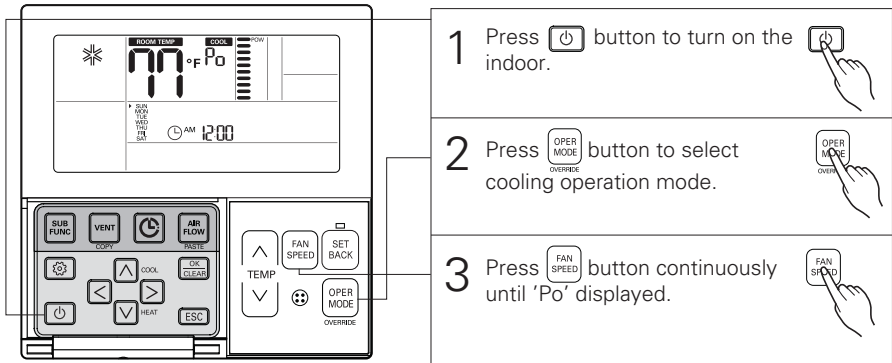
What is Power Cooling?

• Desired temperature: Po (actually 64 °F (18 °C))

• Wind flow: power wind

• Wind direction: fix to air-cooling position

❋ Some products do not have power air-cooling function.

It makes room temperature drop fast by running

Standard Operation - Heating Mode

1 Press 🔌 button to turn on the indoor.

2 Press OPER MODE button to select Heating mode.

3 Adjust the desired temperature by pressing ⌃⌄ buttons.

When setting the desired temperature lower than room temperature, there is only ventilation wind.

❋ Setting temperature range :
Option 1. 60~86 °F (16~30 °C) (default setting)
Option 2. 40~86 °F (4~30 °C)

- Heating drive only operates on cooling and heating models.
- Heating doesn't operate on cooling only models.
- 40~59 °F (4~15.5 °C) When setting the desired temperature, the indoor unit shuts off on condition that the indoor temperature is higher than the desired temperature.
- When using a central controller, a displayed value of the desired temperature may differ depending on a function of the product.
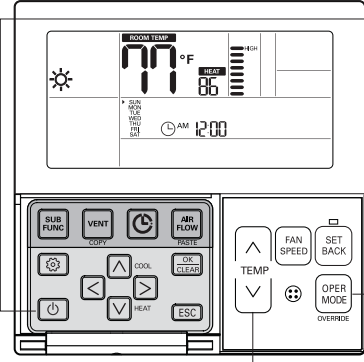
Standard Operation - Dehumidification Mode
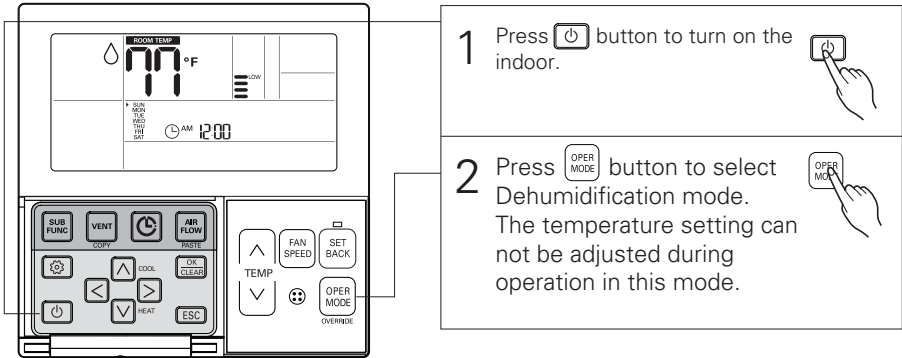
1 Press ⏻ button to turn on the indoor.

2 Press OPER MODE button to select Dehumidification mode. The temperature setting can not be adjusted during operation in this mode.

- In rainy season or high humidity climate, it is possible to operate simultaneously dehumidifier and cooling mode to remove humidity effectively.
- The menu item of fan speed may be unavailable depending on the product.

Standard Operation - Fan Mode

1 Press ⏻ button to turn on the indoor.

2 Press OPER MODE button to select Fan Mode.
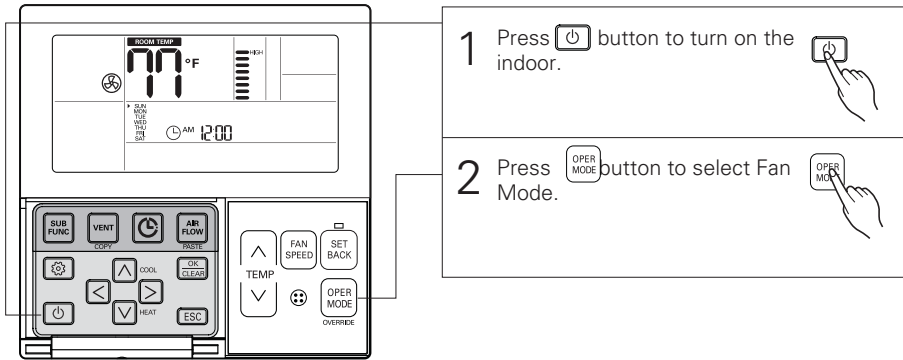
- Ventilation drive does not release cool wind but general fan
- Because it releases the wind that has no temperature difference from the room, it functions to circulate the inside air.
- The menu item of fan speed may be unavailable depending on the product.

ENGLISH

Standard Operation - Auto Operation Mode

1 Press ⏻ button to turn on the indoor.

2 Press OPER MODE button to select Auto operation mode.

3 Press the button ∧ COOL to select Cooling set point, and Cooling set point can be controlled by pressing the button ∧∨ TEMP.

4 Press the button ∨ HEAT to select Heating set point, and Heating set point can be controlled by pressing the button ∧∨ TEMP.

Cooling operation state   Heating operation state
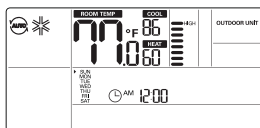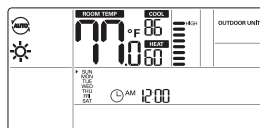
- Auto heating drive only operates on cooling and heating models.
- Auto heating doesn't operate on cooling only models.
- 87~99 °F (30.5~37.5 °C) When setting the desired cooling temperature, the indoor unit shuts off on condition that the indoor temperature is lower than the desired temperature.
- 40~59 °F (4~15.5 °C) When setting the desired heating temperature, the indoor unit shuts off on condition that the indoor temperature is higher than the desired temperature.
- When using a central controller, a displayed value of the desired temperature may differ depending on a function of the product.

Standard Operation - Timed Override

Timed override operation changes occupied / unoccupied schedule for override time temporarily.

- It revert to last occupied schedule in unoccupied override.
- It revert to last unoccupied schedule in occupied override.
- You can set 'Override time' by 'Function setting – Override set time'
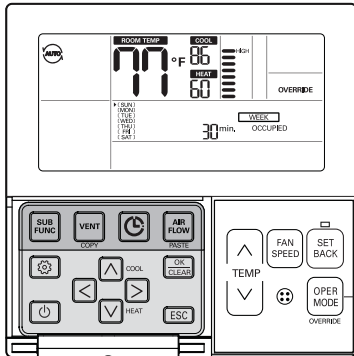
Operate Timed override

1 Press OPER MODE button for 3 seconds, you can operate timed override.
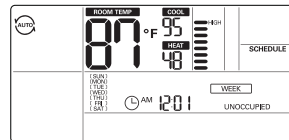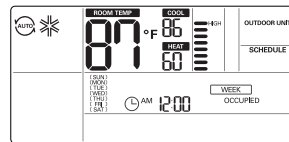
Cancel Timed override

Press OPER MODE button for 3 seconds in Timed override mode, you can cancel Timed override.
- it revert to last weekly reservation schedule.

- It revert to default operation setting if Thermostat doesn't have last occupied schedule in unoccupied override.
  - default operation setting: Auto operation mode / set temperature : 86 °F(30 °C)(cool) , 60 °F(16 °C)(heat)
- It revert to set back operation setting if Thermostat doesn't have last unoccupied schedule in occupied override.
  - set back operation setting : Auto operation mode / set back setting temperature: function setting – set back temperature.
- It can be canceled ,if Thermostat receive command from other controller.
- When changes occur in the setting by a daytime reservation operation, the schedule override mode gets deactivated.

Standard Operation - Set back

Set back operation revert to last unoccupied schedule until Set back operation is canceled.

• It change to 'function setting - set back setting' if Thermostat doesn't have last unoccupied schedule .

- Set back operation setting :
  Auto operation mode / Set back setting temperature: Function setting – Set back temperature

Operate set back mode

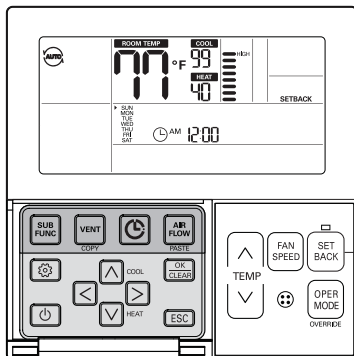Press [SET BACK] button, you can operate set back mode.

Cancel set back mode

Press [SET BACK] button in set back mode, you will cancel set back operation.
- it revert to last weekly reservation schedule.

• You can't change setting in set back mode except cancel the set back mode.
  - 'HL' lock is displayed on the window.
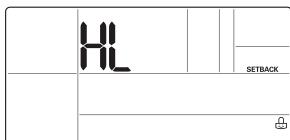
• It can be canceled ,if Thermostat receive command from other controller.

• When commands are received by other controllers, the set back mode gets deactivated.

• When the set back mode is deactivated, the following takes place.

- The set points shall go to the current occupied set points.

- If there are no current occupied set points, the set point shall go to the last occupied set points in the weekly schedule.

- If there are no occupied set points in the schedule, the set points will go to the default if the values have not been adjusted.

- Default Occupied setting will be auto. (heat 60 °F(16 °C), cool 86 °F(30 °C))

Standard Operation – Temperature Setting
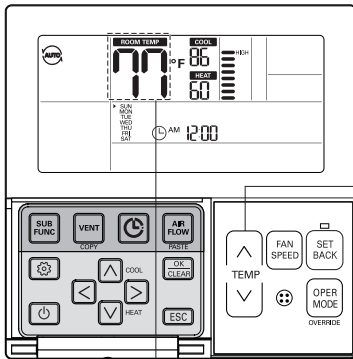
1 You can simply adjust the desired temperature.
• Press the buttons to adjust the desired temperature.
In Auto mode, both setpoints will adjust simultaneously. To adjust cooling and heating setpoints individually when in Auto mode, first press the cool or heat setpoint selection button.

∧ : Increase Temp. per one time
TEMP pressing
∨ : Decrease Temp. per one time
pressing

• Set temp: Indicate the temperature that user want to set.

Cooling operation:
- The cooling mode doesn't work if desired temperature is higher than room temperature. Please lower the desired temperature.
Heating operation:
- The heating mode doesn't work if desired temperature is lower than room temperature. Please increase the desired temperature.

Room Temperature Check the room

When Thermostat is running room temperature will be displayed on window.

Room temperature display range
Fahrenheit: 33~99°F
 - below 32°F: display 'LO'
 - over 100°F: display 'HI'
Celsius: 1~39℃
 - below 0°C: display 'LO'
 - over 40°C: display 'HI'

- Because of location of Temperature sensing, the real room temperature and the this displayed value can be different.

• For air-cooling set point, from 64~86 °F (16~30 °C), and for heating set point, from 60~86 °F (16~30 °C), you can select desired temperature.
  ❈ A temperature area of extended range can be selected through desired temperature range setting option.
    - Cooling : 64~99 °F (16~37.5 °C) / Heating : 40~86 °F (4~30 °C)
• 10°F is proper for the difference between room and outside temperature.
  - When combine with other controllers, temperature gap expressed by criterion of each controllers can be generated.
• For indoor temperature below 50 °F (10 °C), the value perceived by the Thermostat(with cable) is displayed.

Standard Operation - Airflow Setting
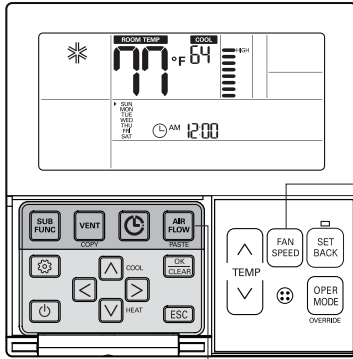
Fan speed : You can simply adjust desired fan speed.

1 Please setup desired fan speed by fan speed button.
- Every time you press fan speed, you can select the fan speed in order of 'SLO → LOW → MED → HIGH → POW → AUTO'.
- The menu item may be unavailable according to product function.
- Please refer to product manual for product's detailed function.

Wind direction : You can simply adjust desired wind direction.

2 Please set desired wind direction by pressing [AIR FLOW] button.
You can select wind direction of (Up/Down and Left/Right → Left/Right → Up/Down → Clear → Swirl→ Clear) by pressing [AIR FLOW] button.
The menu item may be unavailable according to product function.
Please refer to product manual for product's detailed function.

<Airflow Setting Table>

Symbol	Description
	Left-Right : Vanes move from left to right automatically and continuously
	Up-Down : Vanes move from up to down automatically and continuously
	Swirl : Paired Vanes oscillate in 1 minute interval

❈ Some functions may not be operated and displayed depending on the product type.

Sub Function - Plasma Purification

Only products with Plasma Purification function can use this.
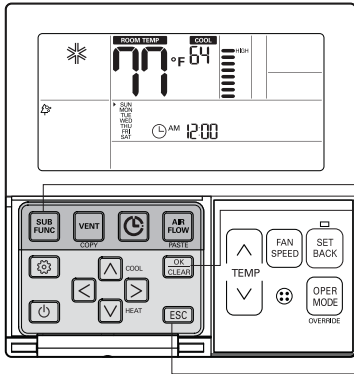
| The method to setup cleaning air |
|---|
| 1 Repeat pressing [SUB FUNC] button until 🜉 icon flash. |
| 2 Operate or cancel Plasma Purification function by pressing [OK CLEAR] button. |
| 3 After setting, press [ESC] button to exit. |
| ❈ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds. ❈ When exiting without pressing set button, the manipulated value is not reflected. |

- Cleaning air function is additional function and it might not be available on all products.
- Cleaning air function is possible only when product is running.
- If air cleaning is needed to run independently, please use fan mode and enable air cleaning.

Sub Function - Energy-Saving Cooling Operation

Energy-Saving Cooling Operation function is the function to improve user's comfortableness and power saving capacity by adjusting desired temperature while running air-cooling.

When operating cooling, setting the power saving function is available.

❄ Except for cooling operated by the auto mode.
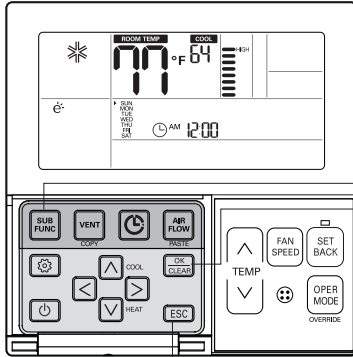
1 Repeatedly pressing [SUB FUNC] button until ė icon flash.

2 Operate or cancel Energy-Saving function by pressing [OK CLEAR] button.
(To cancel power saving function, you move to power saving menu by pressing [SUB FUNC] button, and then if pressing [OK CLEAR] button, power saving icon disappears and the function is cancelled.)

3 Press [ESC] button to exit.
❄ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❄ When exiting without pressing set button, the manipulated value is not reflected.

- Power saving function is possible to setup only when in cooling mode.
- Power saving function might not be available on all products.

Sub Function - Automatic Drying

It is the function that dries the inside of an indoor unit when the product is OFF, and allows for the Fan to operate for certain time in order to remove mold and moisture.

This function is only available on some products.

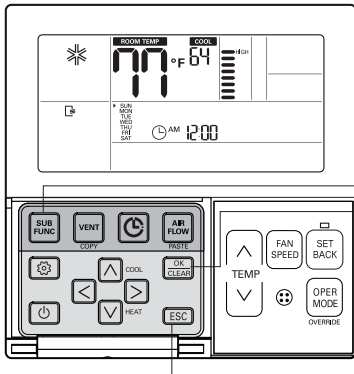| The method to setup Automatic Drying |
| --- |
| 1 Repeat pressing [SUB FUNC] button until 🗂 icon flash. |
| 2 Operate or cancel Automatic Drying function by pressing [OK CLEAR] button. |
| 3 After setting, press [ESC] button to exit. |

❋ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❋ When exiting without pressing set button, the manipulated value is not reflected.

• Automatic dry function might not be available on all products.
• The Automatic drying setting can only be checked when enabled by field setting.

Sub Function - Electric Heater

It is a function to strengthen the heating ability by turning on the electric heater during the heating operation.

It can only be set during heating operation.

1 Repeatedly pressing [SUB FUNC] button until ℓℓ icon flash.

2 Turn on/off electric heater by pressing [OK CLEAR] button (the ℓℓ icon will be displayed in case of setting option and disappear in reverse case .)

3 Press [ESC] button to exit.
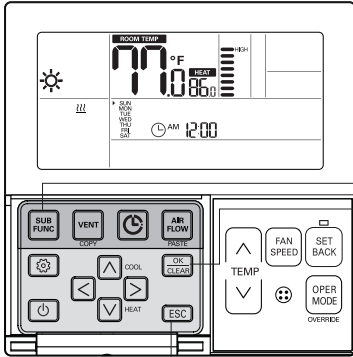❋ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❋ When exiting without pressing set button, the manipulated value is not reflected.

• Heater function is additional function and it might not be available on all products.

• The indoor unit product with Auxiliary Heater function set automatically displays (ℓℓ) icon during the heating operation.

• When using non-heat recovery outdoor unit, emergency heater can be turned on for simultaneous heating and cooling. Indoor unit with the emergency heater must be turned OFF for simultaneous cooling and heating.

  ❋ Heater function is additional function and it only operates in selected models.

• Emergency heater can be turned on while in error in case of emergency.
  Electric heater icon is displayed on LCD display window with error code when emergency heater is on while in error.
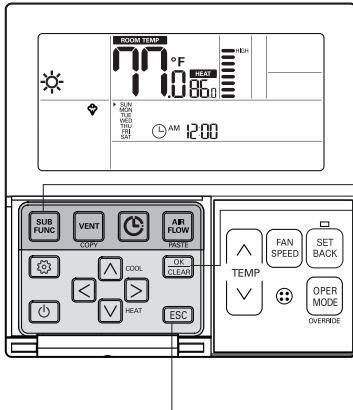
  ❋ Exception case : Error code 1,3,9,10

  ❋ If the previous mode of the Indoor unit is COOL, DRY or FAN ONLY mode, heater must be turned on manually.
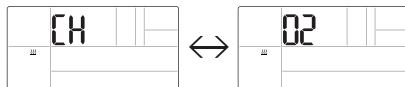
Sub Function - Humidifier

Only products with humidifying function can use this.

1 Repeatedly pressing [SUB FUNC] button until ❀ icon flash.

2 Turn on/off humidifier by pressing [OK CLEAR] button (The ❀ icon will be displayed in case of setting option and disappear in reverse case .)

3 Press [ESC] button to exit.
❋ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
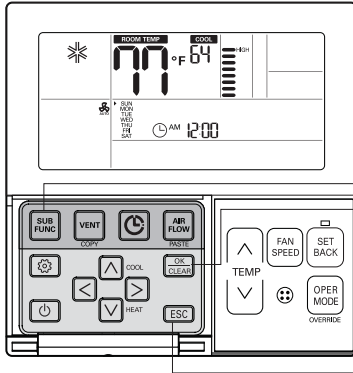❋ When exiting without pressing set button, the manipulated value is not reflected.

• Humidifier function is additional function and it might not be available on all products.

Sub Function - Fan Auto

It is the function that operate fan when outdoor unit is running.
Only products with fan auto function can use this.

The method to setup Fan auto function
1 Repeat pressing [SUB FUNC] button until 🌀 icon flash.
2 Operate or cancel Fan Auto function by pressing [OK CLEAR] button.
3 After setting, press [ESC] button to exit.

❊ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❊ When exiting without pressing set button, the manipulated value is not reflected.

Function Setting - Vane Angle Control

This function is to adjust airflow angle.

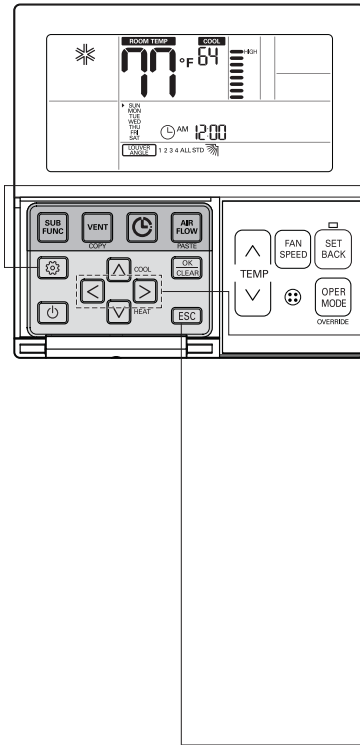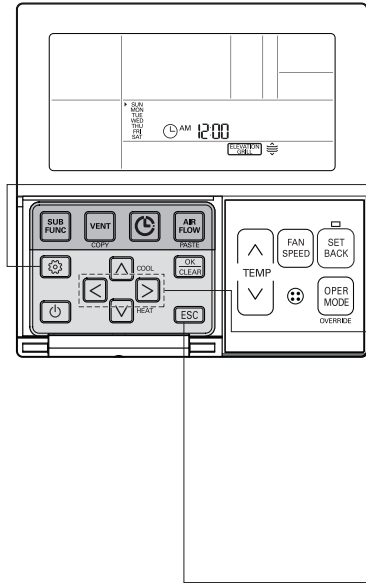1 Repeat pressing 🔧 button until 🔧 ﹋ icon flash.

2 Press ◁ ▷ button to select active vane : 1 / 2 / 3 / 4 / All / Standard
Select Vane number using ◁ ▷ buttons.
❋ Vane number : No. 1, 2, 3, 4, all, or standard
  - Selected vane is in operation.
  - Please verify the operating vane.
  - To set the angle of all the vanes, select 'all'.
  - To set as the factory default settings, select 'standard'.

3 Select wind angle using ⋀ ⋁ button, and press 🔲 button.
  - The boundary of wind angle settings can be changed to 5 levels or 6 levels according to the product.
  - When selecting 'standard' for Vane number, the wind angle does not move.

4 Set the wind angles for the remaining vanes as the same as above.
  ❋ There are products with vanes with no. 1 and no. 2 only according to the product types.

5 Press 🔲 button to complete and active the setting process.
(Airflow direction function will be released whenever setting vane angle)

6 Press 🔲ESC button to exit.
  ❋ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
  ❋ When exiting without pressing set button, the manipulated value is not reflected.

• While adjusting the vane angle, a command from central controller, wireless remote controller or dry contact, etc shall not be reflected in the system for 1 minute.

Function Setting - Elevation Grill

This function is to move the indoor filter up/down for cleaning filter.

1 Press ⚙ button
Repeat pressing ⚙ button until ≣ icon flash.

2 Move to descent using ◁ ▷ button and press OK/CLEAR button will display descent icon and the up/down grill will descend.

3 When up/down grill descends to the desired position, move to stop icon using ◁ ▷ button and press OK/CLEAR button to stop up/down grill.

4 When filter cleaning is finished, fix the filter to the up/down grill, move to ascent icon using ◁ ▷ button, and press OK/CLEAR button to ascend up/down grill.

5 Press ESC button to exit.
❉ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
❉ When exiting without pressing set button, the manipulated value is not reflected.

• Elevation grill function only operates in the indoor unit with the elevation grill.
• Elevation grill function only operates at drive off.

ENGLISH

Function Setting - Child Lock
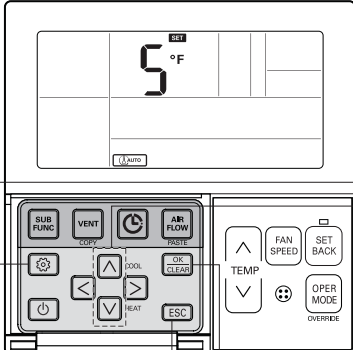
It is the function to use preventing children or others from careless using.
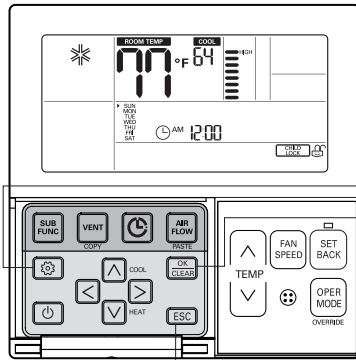
1 Press 🔲 button repeatedly until the ⚷ is flashing.

2 If moving to 'setup' icon area by using ◁ ▷ button, 'setup' icon blinks, and child lock function is setup if pressing ⬜ button at that time.

3 When cancelling lock function, if moving to 'cancel' icon by pressing ◁ ▷ button and then, pressing ⬜ button, child lock function is cancelled.

4 Press ⬜ button to exit.
  ❋ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
  ❋ When exiting without pressing set button, the manipulated value is not reflected.

Function Setting - Minimum Difference between heating and cooling Set points

It is function to setup minimum difference between heating and cooling set points.

1	Repeat pressing 🔲 button until 🕐ᴬᵁᵀᴼ icon flash.
2	Press △ ▽ button to change. ❈ minimum difference value : 0~10°F(0~5°C) 5°F ➡ 10°F
3	Press OK CLEAR button to complete and active the setting process. 10°F
4	Press ESC button to exit or system will automatically release without any input after 60 seconds. ❈ When exiting without pressing set button, the manipulated value is not reflected.

- When changing the desired cooling temperature, in case of that the difference with the heating temperature becomes lesser than its minimal value of difference, it lowers the desired heating temperature automatically.
- When changing the desired heating temperature, in case of that the difference with the heating temperature becomes lesser than its minimal value of difference, it raises the desired cooling temperature automatically.

* If power supplying is stopped for more than 50 hours, please check the current time and correct it.

Function setting - Changing Current Time
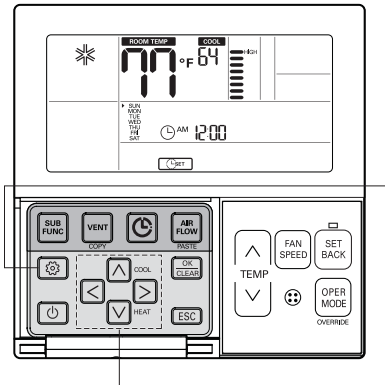
1 Please press function setup button. If pressing function setup button repeatedly, it moves to time setup menu. 'Time setup' icon is indicated at that time and date blinks at current time indication area.

Ex) Changing Current Time as 'Monday / AM 10:20'.

2 Press △ ▽ key to adjust the current day.

SUN
MON
TUE
WED
THU
FRI
SAT

3 Press ▷ key to move to AM/ PM setting mode (the 'AM/ PM segment will flash).
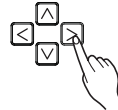
AM 12:00

4 Setting AM/ PM value by pressing △ ▽ button.
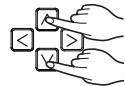
5 Press ◁ ▷ button to move to 'Hour' setting mode. (the 'Hour' segment will flash)

AM 12:00
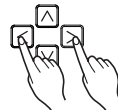
6 Setting Hour value by pressing △ ▽ button.

AM 10:00

ENGLISH
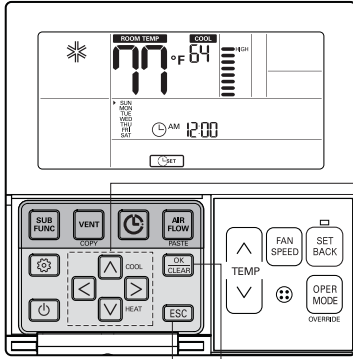
7 Press ◁ ▷ button to move to 'Minute' setting mode. (the 'Minute' segment will flash)

AM 10:00
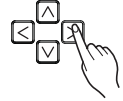
8 Setting Minute value by pressing △ ▽ button.

AM 10:20
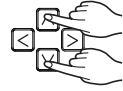
9 Press [OK CLEAR] button to finish.

AM 10:20

10 In the process, press [ESC] button to release and exit from setting mode.
(In case of exit with incomplete information, it will return to the previous setting)
❊ When exiting without pressing set button, the manipulated value is not reflected.

Function Setting - Override set time

It is the function to set schedule override operation time.

1 Use ⚙ button to select Override time setting.
If you press ⚙ button repeatedly, you will be able to select Override time setting with ⏱ icon, and 30 min. icon will be blinking.

2 Using △ ▽ button, you can set Override time from 30 to 240 minutes with interval of 30 minutes.
• Default setting value: 60 min

30 min. ➔ 240 min.

3 Press OK CLEAR button to complete and active the setting process.

240 min.

4 Press ESC button to exit.
❋ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
❋ When exiting without pressing set button, the manipulated value is not reflected.

Function Setting - Set back temperature

It is the function to set default temperature setting points for set back operation.
It used when controller doesn't have last unoccupied schedule.
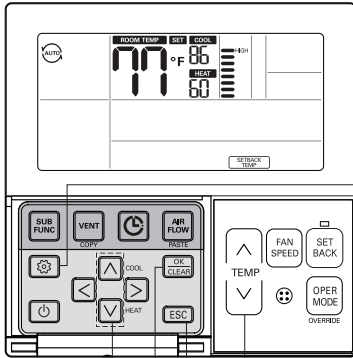
1 Use 🔆 button to select Set back temperature setting. Press 🔆 button repeatedly to select Set back temperature (SETBACK TEMP). You can find blinking cooling set point icon in LCD.

2 Use ⌃⌄ button to set cooling set point. After that, press ⌄ button to move to set heating set point. Using ⌃⌄ button, you can also set heating set point.
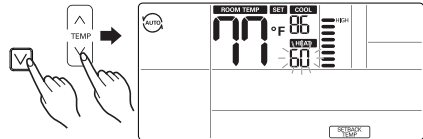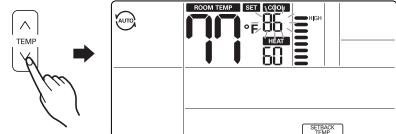
3 Press OK CLEAR button to complete and active the setting process.

4 Press ESC button to exit.
❄ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
❄ When exiting without pressing set button, the manipulated value is not reflected.

Function Setting - Filter Sign Clear

This function is to clear the indicator of indoor filter cleaning.

1 Press 🔘 button repeatedly until the 🏭 is flashing.

2 When the [FILTER SIGN] is flashing, press the [OK CLEAR] to clear this display.

• When filter is covered by dust, it will reduce cooling/heating efficiency and consume more electric power. Therefore, do clean the filter whenever cleaning time is expired.

❈ Filter cleaning indication is automatically cancelled without manual cancellation after certain period of time.

Programming - Simple Reservation

You can set the reservation conveniently in the units of 1 hour from 1 hour to 7 hours.

1 Press ⏲ button on the Thermostat.
(the 'SIMPLE' segment will blink)

2 Press ⌃ ⌄ button to adjust reservation time.

0hr. ➡ 3hr.

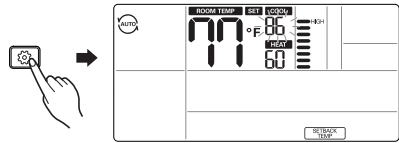**3** Press OK/CLEAR button to finish setting.

3hr.

4 Press ESC button to exit.
❋ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
❋ When exiting without pressing set button, the manipulated value is not reflected.
 - If reservation is setup, 'sleep' indication shows up at the lower part of LCD screen.

* When simple timer setup, product automatically runs or stops after the time that is set.

Programming - Sleep Reservation

Sleep reservation is the function of air-conditioner to run and stop after certain period of time at sleep mode before sleep. When connected to a ventilation product and set the sleep reservation, when it goes to the sleep mode, after the set time has elapsed.

• When operating under the Auto operation mode, the Sleep reservation cannot be made.
• When setting the Auto operation mode, the Sleep reservation gets deactivated.
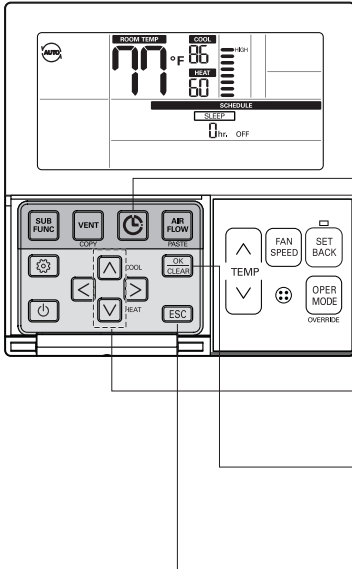
1 Press ⟳ button to enter the Programming mode.
Ex) Setting Sleep Reservation time as '3'.

2 Repeat pressing ⟳ button to enter the SLEEP reservation setting mode.
(SLEEP segment flashing)

3 Press ∧ ∨ button to adjust reservation time.
The SLEEP reservation time is from 1 to 7 hours.

1hr. ➡ 3hr.

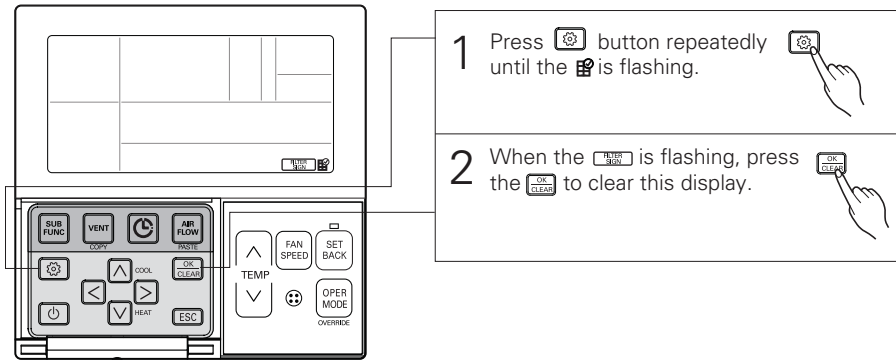4 Press OK CLEAR button to finish setting.
Whenever reservation is done.

5 Press ESC button to exit.
❊ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
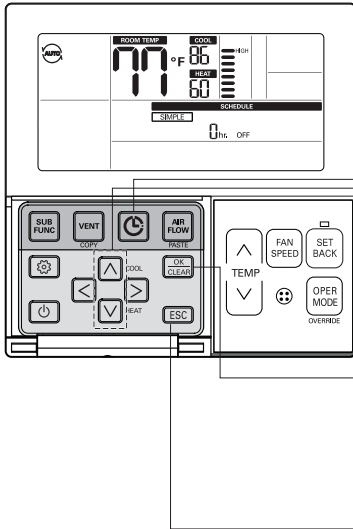❊ When exiting without pressing set button, the manipulated value is not reflected.
- If reservation is setup, 'sleep' indication shows up at the lower part of LCD screen.

6 If finishing sleep reservation setup, air-conditioner product operates sleep drive and stops after the time that is set.

⚠ CAUTION

Please reserve proper time at sleeping.

• Because it automatically adjusts desired temperature for comfortable air-cooling at sleep drive, there could be difference between Thermostat's desired temperature and air-conditioner body's desired temperature.

ENGLISH

Programming - Weekly Reservation

You can set individual daily schedules for the week.
- For correct operation of Weekly Reservation, please set current time correctly.
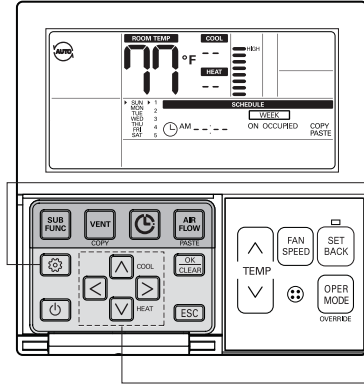
1 Press [clock] button repeatedly to enter 'WEEK' setting mode. 'WEEK' will blink.
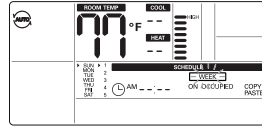
2 Select desired day by pressing the [∧] [∨] button. The day icon in window will blink
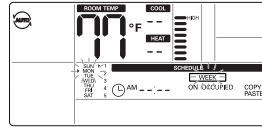
3 Enter timer number setting mode by pressing the [▷] button. Number icon in window will blink.
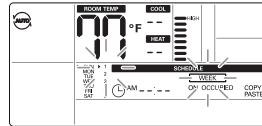
4 Select desired timer number to set by pressing the [∧] [∨] button.

ENGLISH
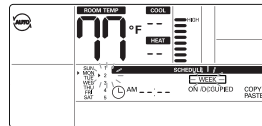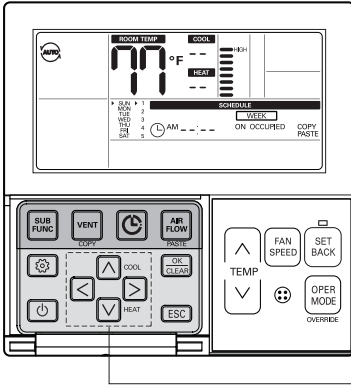
5   Enter AM/PM setting mode by pressing the ▷ button. AM or PM icon in window will blink.
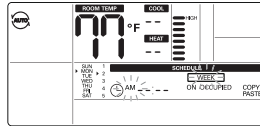
6   Select the AM/PM by pressing the ∧ ∨ button.
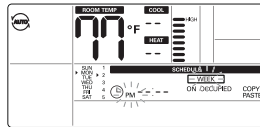
7   Enter 'hour' setting mode by pressing the ▷ button. The hour icon in window will blink.
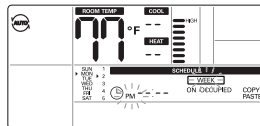
8   Select desired hour by pressing the ∧ ∨ button.
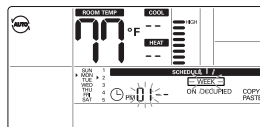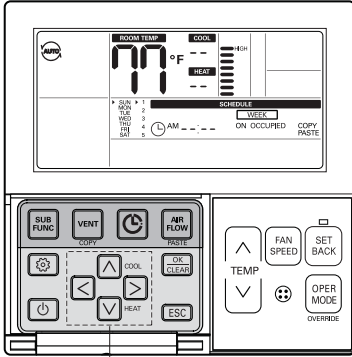
9 Enter 'minute' setting mode by pressing the ▷ button. The minute icon in window will blink.
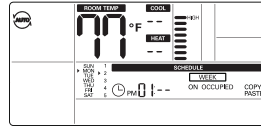
10 Select desired minute by pressing the ∧ ∨ button.
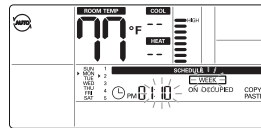
11 Enter ON/OFF setting mode by pressing the ▷ button. ON or OFF icon in window will blink.
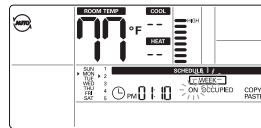
12 Select ON/OFF condition of timer by pressing the ∧ ∨ button.
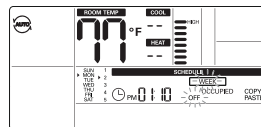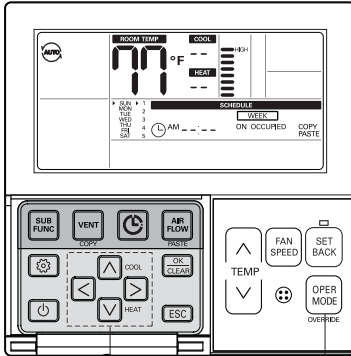
13 Enter OCCUPIED/UNOCCUPIED setting mode by pressing the ▷ button. OCCUPIED or UNOCCUPIED icon in window will blink.
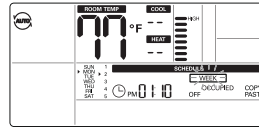
14 Select OCCUPIED/UNOCCUPIED condition of timer by pressing the ⋀ ⋁ button.
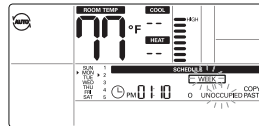
15 Enter operation mode setting mode by pressing the ▷ button. Operation mode icon in window will blink.
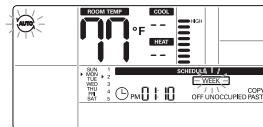
16 Select desired operation mode by pressing the OPER MODE button.
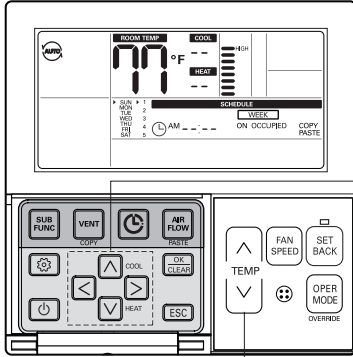
17 Enter Cooling set point setting mode by pressing the ▷ button and the ∧ COOL button. Cooling set point icon in window will blink.
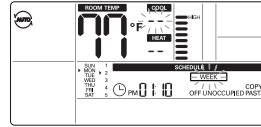
18 Select desired cooling set point by pressing the TEMP button.
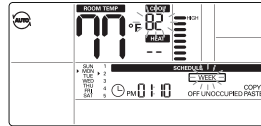
19 Enter Heating set point setting mode by pressing the ∨ HEAT button. Heating set point icon in window will blink.
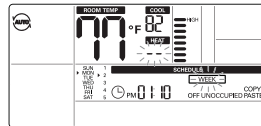
20 Select desired heating set point by pressing the TEMP button.
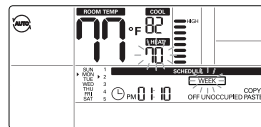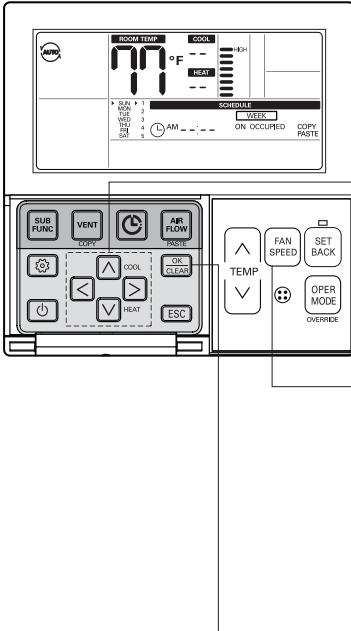
21 Enter fan speed setting mode by pressing the ▷ button. Fan speed icon in window will blink.
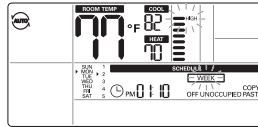
22 Select desired fan speed by pressing the FAN SPEED button.
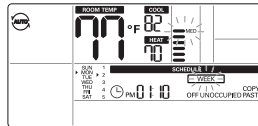
23 If finishing weekly reservation setup, please press the OK CLEAR button. Weekly reservation setup for the day that you set is finished.

24 If you setup with the method identical with above by selecting the day that you'd like to setup, it operates weekly reservation.
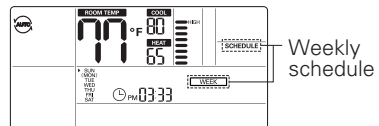
Weekly schedule

Side bar : the indication that there is weekly reservation for corresponding day

• You can't change operate mode, fan speed, setting temperature in unoccupied.
  - Display 'Unoccupied Lock' on the window.

UNOCCUPIED
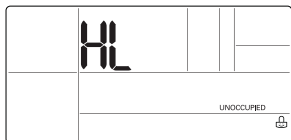
Programming - Weekly Reservation Schedule Copy/Paste

You can copy weekly timer schedule data to another day.
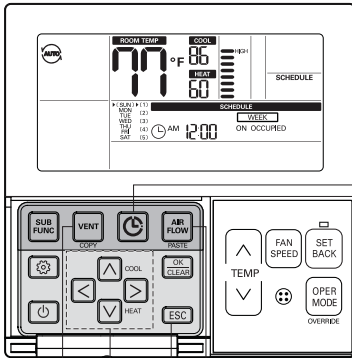
1 Press 🕐 button repeatedly to enter 'WEEK' setting mode. 'WEEK' will blink.

2 Select desired day by pressing the △ ▽ button. The day icon in window will blink.

3 Press VENT button for 3 seconds to copy schedule of selected day.
The 'COPY' icon will flash.

4 Select desired day by pressing the △ ▽ button. The day icon in window will blink.

5 Press AIR FLOW button for 3 seconds to copy schedule of selected day.
The 'PASTE' icon will blink.

6 Press ESC button to exit or system will automatically exit after 25 seconds without any input.

Programming - Holiday Reservation

It automatically stops at reserved day that you set.
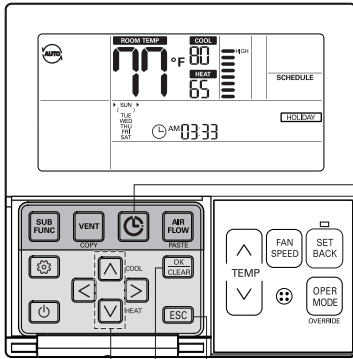
1 Please move to 'holiday' by repeatedly pressing ⏲ button.
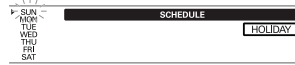
2 Please move to 'date' that you want to setup holiday by using ⋀ ⋁ button.
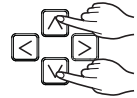
3 Please appoint holiday by using OK CLEAR button.
For example, when you setup Monday holiday
- 'Monday' letter disappears.
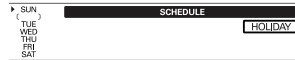
4 Please press ESC button if finishing holiday setup.
❋ If it comes to appointed holiday, air-conditioner automatically stops. If the air conditioner is turned on during holiday schedule, it will run for one hour and then automatically shut off.

Programming - Delete All Reservation

You can delete all reservation schedules.

- Simple, sleep, weekly, holiday reservation
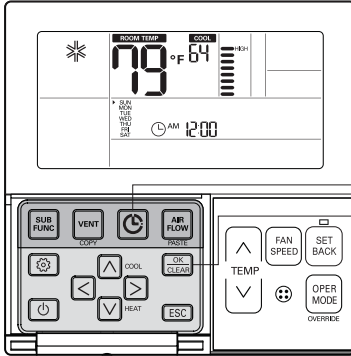
1 Press 🕒 button and OK/CLEAR button simultaneously and hold for 3seconds to delete all reservation schedules.
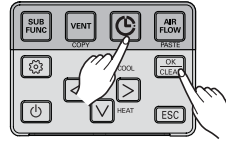
Different mode drive

Different mode drive is a phenomenon taking place when indoor units' drive mode is different in the case that a few indoor units are set up on a heat pump system.

(Different mode drive doesn't show up at cooling exclusive model.)
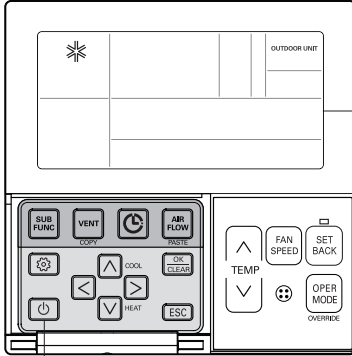
1 While a few indoor units are running cooling on a heat pump system, it doesn't operate heating drive if any indoor unit operates heating drive.
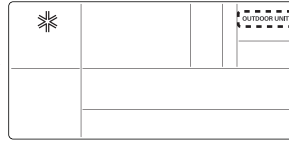
2 While a few indoor units are running heating on a heat pump system, it doesn't run if any indoor unit runs cooling or dehumidification.
It is the indication that it is operating heating drive on a heat pump system.
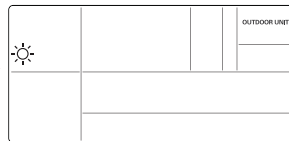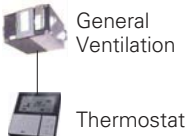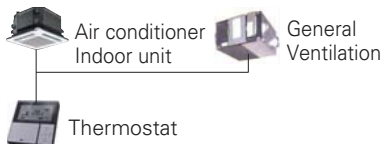
3 By pressing ⏻ button, indoor unit automatically runs at the mode that different indoor units are running after about 5 seconds and operates.

Ventilation Product - Interlocked Air conditioner and Ventilator

1 Control using Thermostat where air conditioner indoor unit and the ventilation product is installed at the same time.
   - When the power is turned on, your Thermostat recognizes the product (takes about 30 seconds) and then works normally.

	Single Operation	Interlocked Operation
General Ventilation	(General Ventilation Single Operation)	(General Ventilation Interlocked Operation)

❊ Connecting wires is the same as air conditioner user manual.
   (Refer to page about Group control)

2 Press 'Ventilation' button on the Thermostat and enter Ventilation control mode to check the operation of ventilation product.
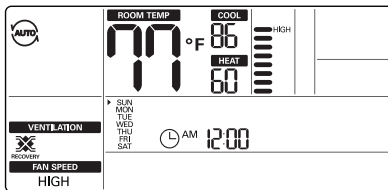
[Air conditioner control mode]   [Ventilation control mode]
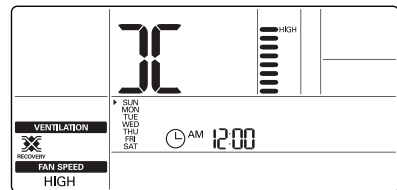
3 To convert back to air conditioner mode, press 'Ventilation' button when in ventilation mode.
   - If no button pressed for 15 seconds or more in ventilation mode, it automatically converts back to air conditioner mode.
   - Ventilation product represent general ventilation product and direct expansion ventilation product.

Ventilation Product - Interlocked operation with general Ventilator

It is used when air conditioner is interlocked with ventilation product.

It is a function that cools and refreshes indoor air using the ventilation product at the same time operating the air conditioning function.
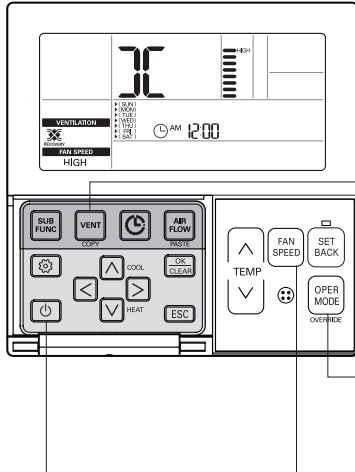
Ventilation interlinked operation	
1	Press [VENT] button on the Thermostat control panel. - It is only used when air conditioner and general ventilation is Interlocked.
2	Pressing [⏻] button at ventilation mode will start ventilation.
3	Pressing [OPER MODE] button will change the ventilation operation mode. Pressing operation selection button will change the mode in the order of 'Recovery → Bypass → Auto' ❊ It only displays on the Thermostat display when it is in ventilation mode, and it displays the desired temperature when it returns to air condition mode.
4	Pressing [FAN SPEED] button in general ventilation mode will change airflow speed. Pressing fan speed speed button will change the mode in the order of ' 'Low → High → Power'. If CO_2 sensor is installed, it can select from ' 'Low → High → Power → Automatic'.
5	Changing back to air conditioner mode 1)Automatic Conversion : when no button is pressed for 15 seconds or longer, it automatically converts back to air conditioner mode. 2) Manual Conversion : Pressing [VENT] button in ventilation mode will manually convert.

Ventilation Product - Ventilator single operation
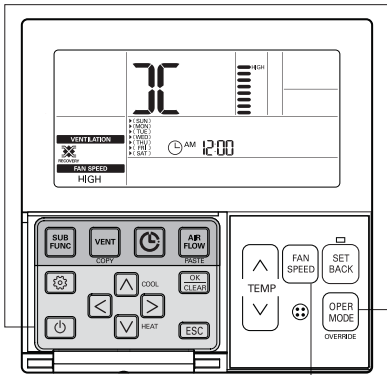
1 Press ⏻ button on the Thermostat.

2 Pressing [OPER MODE] button will change the ventilation mode.

Ventilation mode	Thermostat Display	Contents
Heat exchange	⅂⅃	Circulate indoor air without loss of heat
Normal	[ ]	Directly circulate indoor air without going through heat exchanger
Automatic	AU	Circulate indoor air with automatically comparing indoor and outdoor air

3 Pressing [FAN SPEED] button will change the strength of the wind
- Pressing the button can select from 'Low → High → Power'.
- If CO_2 sensor is installed, it can select from 'Low → High → Power → Automatic'.

Ventilation Product Function Settings

❉ Refer to ' Function Setting - Child Lock ' part for lock function.

❉ Refer to ' Function Setting - Filter Sign Clear ' part for Filter Cleaning function.

❉ Refer to ' Function Setting - Changing Current Time ' part for Time Setting function.

Ventilation Product Reservations Settings

Sleep Reservations : Sets to operate ventilation lightly during the sleep.
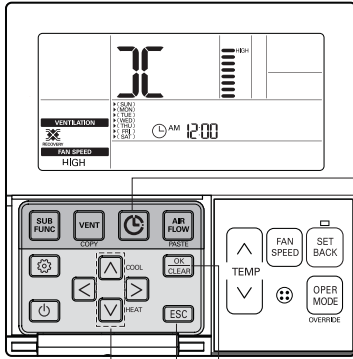
1 Press ⏲ button to enter the Programming mode.
Ex) Setting Sleep Reservation time as '3'.

2 Repeat pressing ⏲ button to enter the SLEEP reservation setting mode.
(SLEEP segment flashing)

3 Press ∧ ∨ button to adjust reservation time. The SLEEP reservation time is from 1 to 12 hours.

1hr. ➡ 3hr.

4 Press OK CLEAR button to finish setting. Whenever reservation is done.

5 Press ESC button to exit.
❈ After setup, it automatically gets out of setup mode if there is no button input for 60 seconds.
❈ When exiting without pressing set button, the manipulated value is not reflected.
- If reservation is setup, 'sleep' indication shows up at the lower part of LCD screen.

6 When the sleep reservation is set, the unit operates lightly.

Simple, Weekdays, Holidays Reservations

❈ Please refer to the Reservation Settings part of the air conditioner for Simple, Weekdays, Holidays Reservations

Troubleshooting Mode Self Diagnosis

If there are problems with the product, it self-diagnoses with Troubleshooting mode.
It displays a number for the Troubleshooting mode with its inspection code phrase.
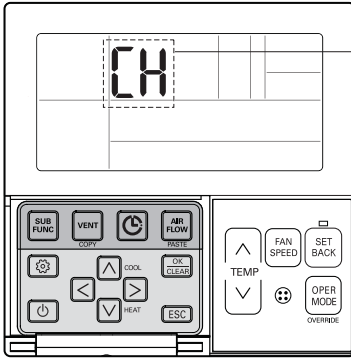
When an error occurs while operating, the 'CH' phrase and Error code umber are displayed on the screen alternately as below.
Example) When Error code 03 occurs.
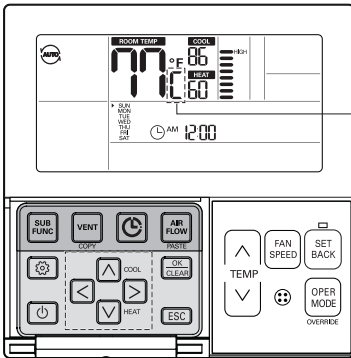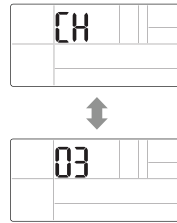
When an error occurs while operating under the group control mode, the 'CH' phrase and Error code number are displayed on the screen to the right of indoor temperature value alternately as below.
Example) When Error code 03 occurs,
C → H → 0 → 3

- When recovery takes place after occurrence of an error, controller operation mode may change because of communication with indoor unit. Make sure you set the correct operation mode after adjusting vane angle settings.
- Since the setting of the Thermostat (with cable) can be altered after its recovery from occurrence of a group control error, reset is recommended.

Checkups before reporting breakdown

Please first check the items below for troubleshooting before consulting a service center.

Symptoms	Check-up	Management
Abnormal operating conditions.	• Is air-conditioner's power on?	• Please check up circuit breaker. • Please check up Thermostat wire setup condition.
	• Are air-conditioner and Thermostat properly connected with cable?	• Please connect air-conditioner and Thermostat cable.
	• Is cable connection correct?	• Please check again referring to setup method at the manual.
It doesn't operate reservation.	• Did you correctly setup time?	• Please set up current time correctly.
	• Did you correctly make a reservation?	• Please set up again referring to 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.
Air-conditioner automatically runs or stops.	• Isn't reservation drive setup?	• Please set up 'Weekly timer' again referring to the manual.
Error is indicated on Thermostat indication window.	• Does Thermostat indication window indicate 'CH03'?	• Please check again remote controller wire setup condition. • Please check again connection condition of air-conditioner and Thermostat cable.

INSTALLATION METHOD

1   Please fix tightly using provided screws after placing Thermostat backplate on the placewhere
   you like to setup.
   - Please set it up not to bend because poor setup could take place if backplate bends.Please
     set up Thermostat board fit to the electrical box if there is a electrical box.
   - Install the product so as not to make a gap with the wall side and to prevent shaking afterthe
     installation.
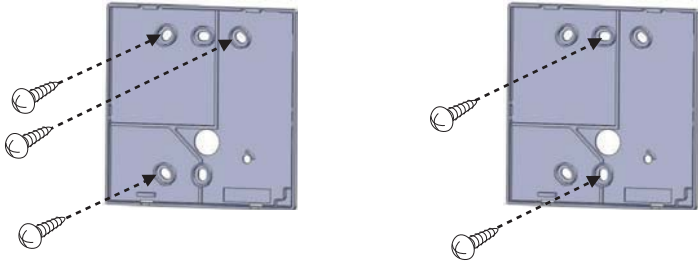
2   Can set up Thermostat cable in one of three possible directions.
   - Setup direction: back, top, or right
   - If setting up Thermostat cable into top or right side, please set up after removing Thermostat
     cable guide groove.

✻ Remove guide groove with long nose pliers.

① Back through the wall
② Top guide groove
③ Right side guide groove

<Wire guide grooves>
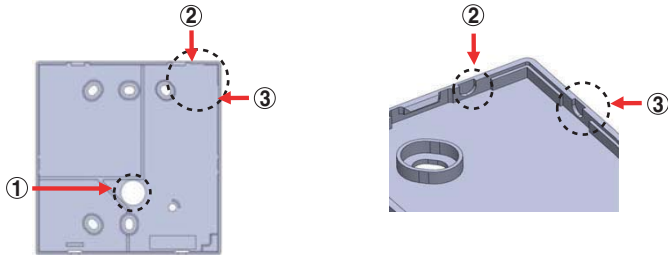
3 Please fix Thermostat upper part into the backplate attached to the surface of the wall, as the picture below, and then, connect with backplate by pressing lower part.

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

Remove Thermostat by inserting a screwdriver 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.

<Connecting order>

Wall Side ⟹ Wall Side

<Separating order>

Wall Side ⟹ Wall Side
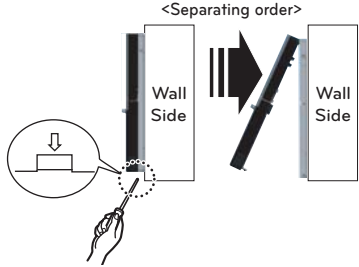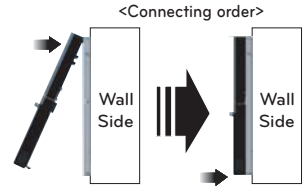
4 Please refer to the following directions when connecting the indoor unit and the Thermostat together.

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

Signal	Yellow
12V	Red
GND	Black

Please check if the connectors are connected properly.

C/BOX Cable (Plug type)

① ② ③ Indoor Unit side

Extension cable(housing type)
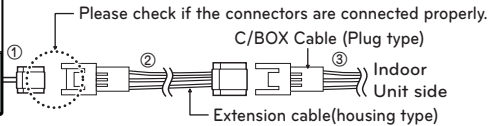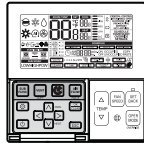
※①:AWG#24 / ②,③ : AWG#22

⚠ **CAUTION**

- Specification of LG supplied extension cable : AWG#22, 3 core shielded. (Model : PZCWRC1)

- Apply enclosed noncombustible conduit(metal raceway) totally or use FT-6 rated cable or above level in case of local electric & building code that requires plenum(CMP) cable usage.

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2) When connecting Terminal Blocks of the indoor C/BOX and the Thermostat with the extension cable, refer to the steps below.

① Remove the screw on the cable which is fastened to the Thermostat's Terminal Block by loosening with a screw driver.

② Remove the housing of the provided 32ft extension cable with a cutting nipper and peel it as shown in the figure below. (when purchasing the extension cable at the site directly, please peel it as shown in the figure below.)

0.394 inch(10mm) ± 0.118 inch(3mm)

1.378 inch(35mm) ± 0.197 inch(5mm)
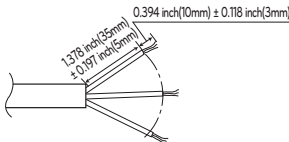
③ Make sure each wire is securely fastened under each screw terminal and the wires are not in contact with each other.

④ 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 Thermostat's terminal block and the 'YL' part of the indoor unit's terminal block.
Connect the red(12V) part of the Thermostat's terminal block and the 'RD' part of the indoor unit's terminal block.
Connect the black(GND) part of the Thermostat's terminal block and the 'BK' part of the indoor unit's terminal block.

<Thermostat>   <Indoor Terminal Block>
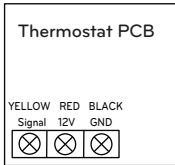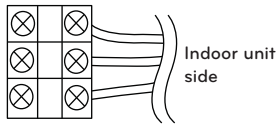
Thermostat PCB Terminal block Remark	Indoor Terminal block	Function
YELLOW	YL	Signal
RED	RD	12V
BLACK	BK	GND

❋ In case of loosened screws or insufficient contact between the terminal and the wire, thermostat may not function properly.

❋ When the power is off on the Thermostat, check the connection between the Thermostat 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 code by authorized personnel only.
- Apply enclosed noncombustible conduit(metal raceway) totally or use cable above FT-6 level in case of local electric & building code that requires plenum plenum(CMP)cable usage.
- AWG#22, 3 core shielded is recommended when using the large hole in the center of the backplate.
- AWG#24, 3 core shielded is recommended when using the side or top knock-out of the backplate.

5 Please use an extension cable if the distance between the Thermostat and the indoor unit is longer than 32ft (10m).

⚠ CAUTION

When installing the Thermostat, do not bury it in the wall.
(It can cause damage in the temperature sensor.)
Do not install the cable to be 164ft (50m) or longer. (It can cause communication error.)

Thermostat installation

Since the room temperature sensor is in the Thermostat, the Thermostat 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 Thermostat about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.

Do not install the Thermostat 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 Thermostat.

- This Thermostat is equipped with LCD. display. For proper display of the Thermostat LCD's, the Thermostat should be installed properly as shown in Fig.1.
  (The standard height is 4~5 ft (1.2~1.5 m) from floor level.)
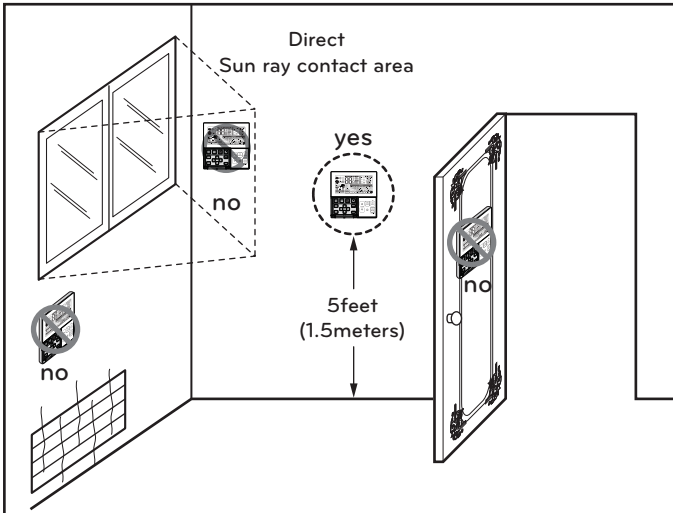
[Fig.1]

GROUP CONTROL

1 When installing more than 2 units of air
conditioner to one Thermostat, please
connect as the right figure.
- Set one indoor unit to master and the re-
maining to slave.
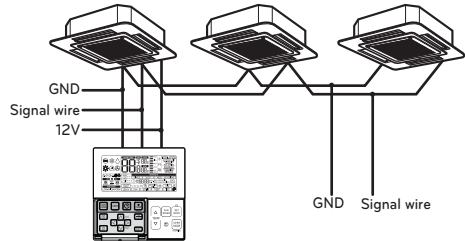
When controlling multiple indoor units with one Thermostat, you must change the master/slave
setting from the indoor unit.
- Once DIP S/W is set, recycle power. When recycling power, please remain in OFF position for
at least 1 minute for new settings to take effect.
- For ceiling type cassette and duct product group, change the switch setting of the indoor PCB.

#3 switch OFF: Master
(Factory default setting)

#3 switch ON: Slave

- For wall-mount type and stand type product, change the master/slave setting with the wireless
Thermostat. (Refer to wireless Thermostat manual for detail)
When controlling the group, some functions excluding basic operation setting, fan level Low,
med, high, Thermostat lock setting and time setting may be limited.

INSTALLATION INSTRUCTION

Installer Setting - How to enter installer setting mode
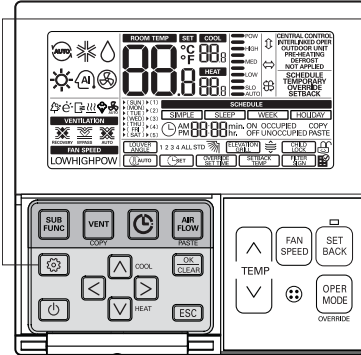
1 If pressing 🔘 button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2 When you enter the setting mode initially, Function code is displayed on the bottom of the LCD screen.

0101

Function Code   Value

• Some categories of the menu may not be displayed according to the function of the product, or the menu name may be different.

⚠ CAUTION

Installer setting mode is to set the detail function of the Thermostat.
If the installer setting mode is not set correctly, it can cause problems to the product, user injury or property damage. This must be set by an certified installer, Any non-certified personnel attempting to install or make changes shall be responsible for any adverse effects or operation.

<Installer Setting Code Table>

1) General air-conditioner product

| Code	Function	Value
01	Test Run	01:Set
02	Address Setting	00~FF : Address
03	E.S.P. Value	<ESP Step> 01:VeryLow, 02:Low, 03:Med, 04:High, 05:Very High <ESP Value> 0 ~ 255 <Example> 03:01 15₅ Function Code ESP step ESP value
04	Thermistor	01:Remo 02:Indoor 03:2TH
05	Ceiling Height	01:Low 02:Med 03:High 04:Very High
06	Static Pressure	01:V-H 02:F-H 03:V-L 04:F-L
07	Master Setting	00:Slave ※ If only "Plus1" series models 00 : Group setting 01:Master 01 : Single setting
08	Override Setting	00:Slave 01:Master
09	Dry Contact	00:Auto-Off 01:Auto-On
12	Celsius Fahrenheit Switching	00:Celsius 01:Fahrenheit
18	Emergency Heater Setting	Select mode — Setup Low Ambient Heating Operation — Setup FAN Speed. 00 : not use / 0 : not use / 0 : fan off. 01 : use / 1 : use – compressor off (0 °F/-18 °C)/on(5 °F/-15 °C) / 1 : fan on. 2 : use – compressor off (5 °F/-15 °C)/on(10 °F/-12 °C). 3 : use – compressor off (10 °F/-12 °C)/on(15 °F/-9 °C)
20	Plasma	00: Not Installed 01: Installed
21	Electric heater	
22	Humidifier	
23	Elevation Grill	
24	Ventilation Kit	
25	Auxiliary Heater	
31	Setting temperature range	00: 60~86 °F / 16~30 °C 01: 40~99 °F / 4~37.5 °C

※ Some contents may not be displayed depending on the product function.

ENGLISH

2) General Ventilation product

Code	Function	Value
01	Test Run	01 : Test Run Setup
02	Address Setting	00~FF : Address of Central Control
03	SA(Supply Air) ESP	
04	EA(Exhaust Air) ESP	<ESP Step> <ESP Value> <Example> 01:Low 0 ~ 255 02:High 03:Very High **0301 I55** Function Code ESP step ESP value
05	Product Direction	01 : Normal 02 : Opposite
09	Dry Contact	00 : Auto-Off 01 : Auto-On
11	Zone State	01:Variable 02:Fixed
13	Humidification for Singular Ventilation	00 : Not in Use 01 : Use
14	Humidification for Heat Mode Ventilation	00 : Automatic 01 : Manual

� Some contents may not be displayed depending on the product function.
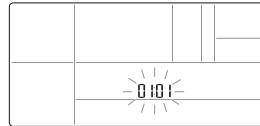
Installer Setting - Test Run Mode

After installing the product, you must run a Test Run mode.
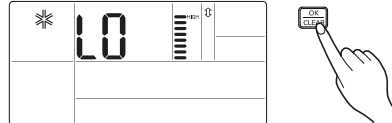For details related to this operation, refer to the product manual.
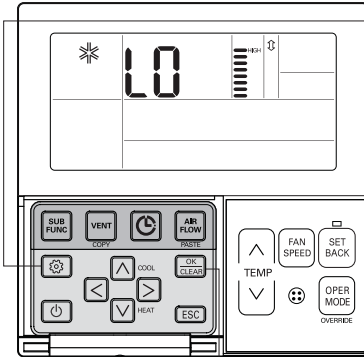
1   If pressing 🔘 button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
- Please cancel the right and left of wind direction for RAC product.

0101

Function Code   Set
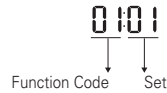
2   Setup figure '01' blinks at the lower part of indication window.

0101

3   Press 🔲 button to start.

4   During the test run, pressing the below button will exit the test run.
- Select operation mode, temperature up/down, fan speed, wind direction, start/stop button.

## Installer Setting - Setting Address of Central Control

It's the function to use for connecting central control.
Please refer to central controller manual for the details
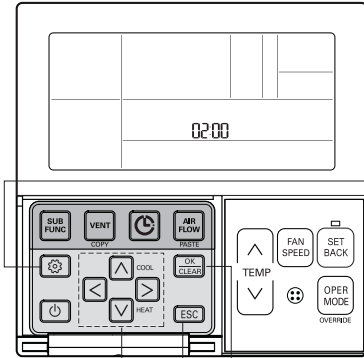
1 If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setter setup mode.
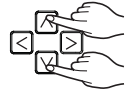   - If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

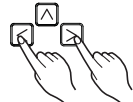2 If entering into address setup mode by using ⚙ button, it indicates as picture below.

   02:00
   Indoor No.
   Group No
   Function Code
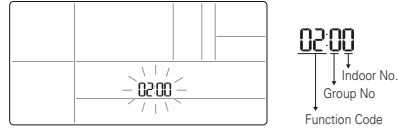
3 Set Group No. by pressing ∧ ∨ button.(0~F)

   02:F0

4 Move to Indoor No. setting option by pressing ◁ ▷ button.

   02:F0

5 Set Indoor No. by pressing ∧ ∨ button.

   02:F5

6 Press ⊙ᴷ/CLEAR button to save.

   02:F5

7 Pressing ESC button will exit settings mode.
   ✽ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
   ✽ When exiting without pressing set button, the manipulated value is not reflected.

Installer Setting - E.S.P. Function

This is the function that decides the strength of the wind for each wind level and because this function is to make the installation easier.

- If you set ESP incorrectly, the air conditioner may malfunction.
- This setting must be carried out by a certificated-technician.
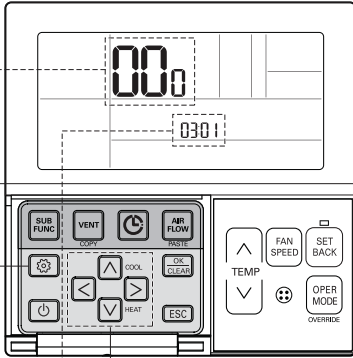
Function code, ESP code

ESP value

1 If pressing 🔅 button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
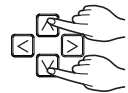
2 If entering into ESP setup mode by using 🔅 button, it indicates as the picture below.
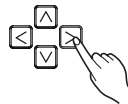
ESP step
Function Code   ESP value
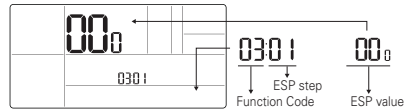
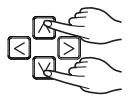3 Select ESP fan step by pressing ⋀ ⋁ button. (01: very low, 02: low, 03: medium, 04: high, 05: very high)

4 Move to ESP value setting by pressing ▷ button.
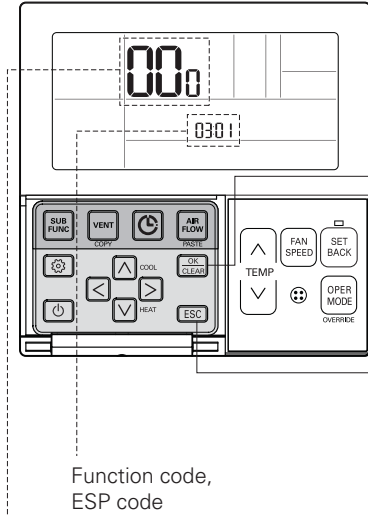(It is 000 when delivering from the warehouse.)

5 Press ⋀ ⋁ button to setup ESP value.

(It is possible to setup ESP value from 1 to 255, and 1 is the smallest and 255 is the biggest.)

- ESP setting may not work on products without weak or power fan speed settings.

ENGLISH

Function code,
ESP code

ESP value

6 Select ESP fan step again by using ◁ ▷ button and setup ESP value, as No. 4 and 5, that corresponds each fan speed.
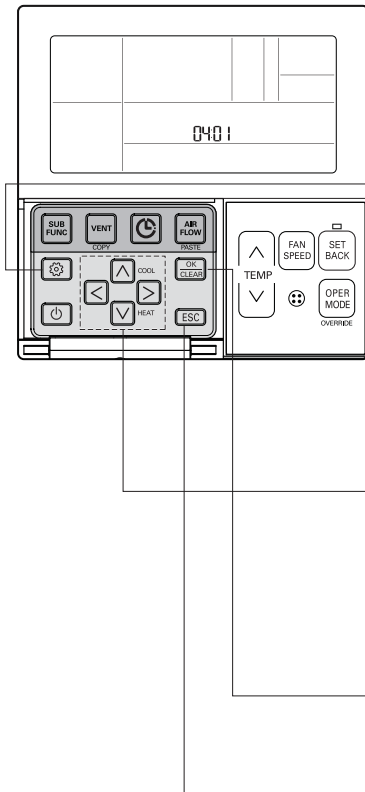
7 Press ⌧ button to save.

8 Press ESC button to exit.
❈ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❈ When exiting without pressing set button, the manipulated value is not reflected.

- Please be careful when adjusting ESP values.
- It does not work to setup ESP value for weak/power step for some products.
- ESP value range is dependent on product.

Installer Setting - Thermistor

This is the function to select the temperature sensor to judge the room temperature.

1 If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2 If moving to room temperature perception sensor selection menu by pressing ⚙ button, it indicates as picture below.

3 Set Thermistor value by pressing ∧ ∨ button. (01: Thermostat, 02: Indoor, 03: 2TH)

04:01

Function Code   Thermistor setting

4 Press OK/CLEAR button to save.

04:01

5 Pressing ESC button will exit settings mode.
❈ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❈ When exiting without pressing set button, the manipulated value is not reflected.

<Thermistor Table>

Temperature sensor selection			Function
01	Thermostat		Operate according to Thermostat temperature sensor
02	Indoor unit		Operate according to indoor unit temperature sensor
03	2TH	Cooling	Operate according to higher temperature by comparing indoor unit's and Thermostat's temperature. (There are products that operate at a lower temperature.)
		Heating	Operate according to lower temperature by comparing indoor unit's and Thermostat's temperature.

❈ The function of 2TH has different operation characteristics according to the product.

❈ For the indoor temperature below 10 °F, it displays the value perceived by the sensor of the Thermostat regardless of the temperature sensor setting.
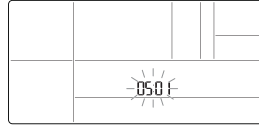
ENGLISH

Installer Setting - Ceiling Height Selection

This function is to adjust FAN Airflow rate according to ceiling height (For ceiling type product)
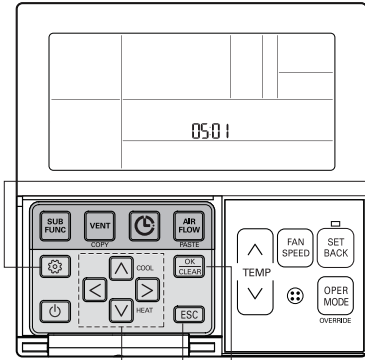
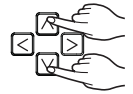|	
1	If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setup mode. - If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.
2	If moving to ceiling height selection menu by pressing ⚙ button, it indicates as picture below.
3	Select ceiling height value by pressing ⋀ ⋁ button. (01:Low, 02:Medium, 03:High, 04:Very high) 05:01 Function Code ceiling height setting
4	Press OK/CLEAR button to save. 05:01
5	Pressing ESC button will exit settings mode. ✽ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds. ✽ When exiting without pressing set button, the manipulated value is not reflected.

<Ceiling Height Selection Table>

	Ceiling Height Level	Description
01	Low	Decrease the indoor airflow rate 1 step from standard level
02	Medium	Set the indoor airflow rate as standard level
03	High	Increase indoor airflow rate 1 step from standard level
04	Very high	Increase indoor airflow rate 2 steps from standard level

- Ceiling height setting is available only for some products.
- Ceiling height of 'Very high' function may not exist depending on the indoor unit.
- Refer to the product manual for more details.

ENGLISH

Installer Setting - Static Pressure Setting

This function is applied to only duct type. Setting this in other cases will cause malfunction.


1 Press ⊙ button for 4 seconds to enter the installer setting mode until timer segment displays "01:01".

2 If pressing ⊙ button repeatedly, it moves to static pressure selection menu as picture below.

3 Select static pressure by pressing ∧ ∨ button.

(01:V-H, 02:F-H, 03:V-L, 04:F-L)

06:01

Function Code   Pressure

4 Press OK CLEAR button to save.

5 Pressing ESC button will exit settings mode.
❈ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❈ When exiting without pressing set button, the manipulated value is not reflected.

<Static Pressure Setting Table>

Pressure selection		Function	
		Zone state	ESP standard value
01	V-H	Variable	High
02	F-H	Fixed	High
03	V-L	Variable	Low
04	F-L	Fixed	Low

ENGLISH

## Installer Setting - Override Master/Slave Setting

Since Multi V II, override master/slave function is to prevent product's different mode operation. If it setup as the slave, It blocks to change opposite run mode to outdoor unit cycle (cooling/heating)
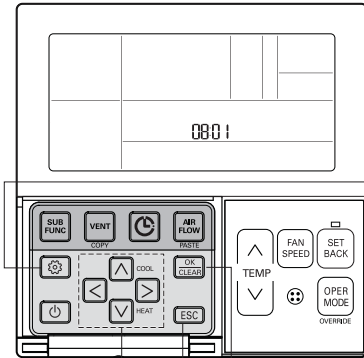
1   If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setup mode.
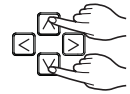- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2   If pressing ⚙ button repeatedly, it moves to override master/slave selection menu as picture below.
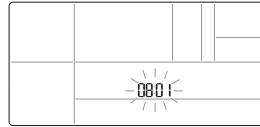
3   Select Master/ Slave by pressing ⋀ ⋁ button.
(00: Slave, 01 : Master)

08:00

Function Code   Master/Slave
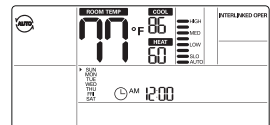
4   Press ⌦ button to save.

08:00

5   Pressing ⌫ button will exit settings mode.
❋ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
❋ When exiting without pressing set button, the manipulated value is not reflected.
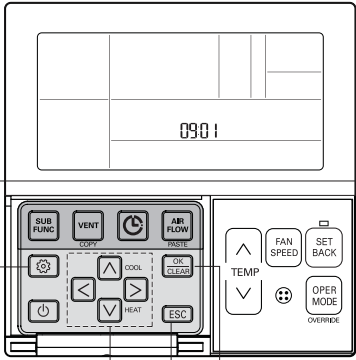
❋ Override master/slave selection function is possible to use only when it is connected to the succeeding models of Multi V II series.

• If it is set as Override Slave, **INTERLINKED OPER** icon is displayed on LCD Display Window.
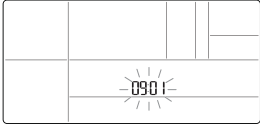
Installer Setting - Dry Contact Mode Setting

Dry contact function is the function that is possible to use only when dry contact equipment is separately purchased/setup.

1 If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2 If pressing ⚙ button repeatedly, it moves to Thermostat dry contact mode setup menu as picture below.

3 Select Dry contact setting by ⋀ ⋁ pressing button.
(00 : Manual, 01 : Automatic)

09:01

Function Code   Dry Contact setting value

4 Press OK/CLEAR button to save.

09:01

5 Pressing ESC button will exit settings mode.
�֍ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
✖ When exiting without pressing set button, the manipulated value is not reflected.

▶ What is Dry Contact?
Like hotel card key or occupancy sensor, it is the signal of the point of contact when using air-conditioner by interlocking.

• Please refer to dry contact manual for more details.

Installer Setting - Fahrenheit / Celsius Switching

This function is used for switching the display between Celsius and Fahrenheit.
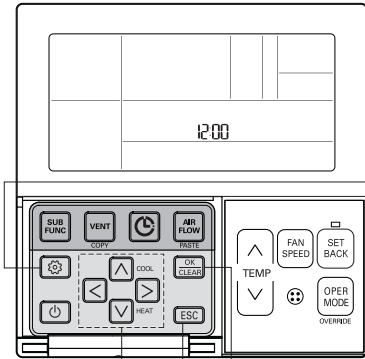
1 If pressing [⚙] button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode.
Please press more than 3 seconds for sure.

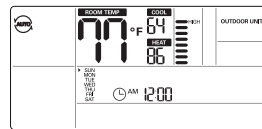2 Repeat pressing [⚙] button to select Function code 12.
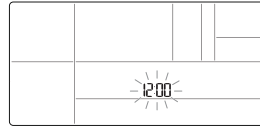
3 Select Temperature unit mode by pressing [∧] [∨] button.
(00: Celsius, 01: Fahrenheit)
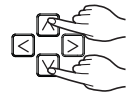
4 Press [OK CLEAR] button to save or release.

5 Press [ESC] button to exit or system will automatically exit after 25 seconds without any input.

❊ Whenever press [∧] [∨] button in Fahrenheit mode, the temperature will increase/drop degrees.

Installer Setting - Emergency Heater Setting

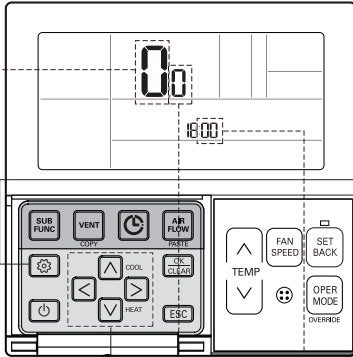This function is only available on some products.
This function will set the Emergency Heater Setting.
Emergency Heater is used to heat the space in emergency case such as heat pump error.
Emergency heat is in place of and does not supplement heat pump.

❋ Emergency Heater setting Function sets following conditions:

1) Emergency Heater operation while in error or outdoor unit operating in the cooling cycle.
2) Emergency Heater operation in Low Outdoor Ambient temperature
3) Fan speed setting during Emergency Heater operation

1 If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

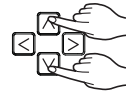**2** Repeat pressing ⚙ button to select Function code 18.

Function Code — Setting1: Heater Operation while in error or outdoor unit operating in the cooling cycle.

**3** Select mode of Heater Operation while in error by pressing ∧ ∨ button

00: not use
01: use

❋ If 00 is set at this stage, setting 2 & setting 3 will not be available

Setting2 : Low Outdoor Ambient Heating Operation

Setting1 : Heater Operation while in error or outdoor unit operating in the cooling cycle.

Setting3 : FAN Speed Setting during Emergency Heater Operation

⚠ **CAUTION**

This function setting must be carried out by a certified-technician.
Incorrect function setting can cause fire.

ENGLISH
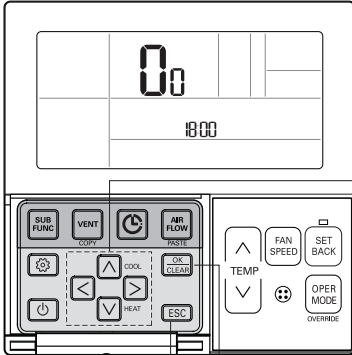
4 Move to Low Outdoor Ambient Heating Operation setting by pressing ▷ button.

5 Press △ ▽ button to setup Low Outdoor Ambient Heating Operation.

0 : not use
1 : use - compressor off(0°F/ -18℃) / compressor on(5°F / -15℃)
2 : use - compressor off(5°F / -15℃) / compressor on(10°F / -12℃)
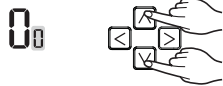3 : use - compressor off(10°F/ -12℃) / compressor on(15°F / -9℃)

※ Emergency heater operation in Low Ambient temperature
 - compressor off : Emergency heater enabled
 - compressor on : Emergency heater disabled

6 Move FAN Speed Setting during Emergency Heater Operation by pressing ▷ button.
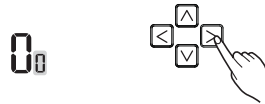
7 Press △ ▽ button to setup FAN Speed during Emergency Heater Operation.

0 : fan off
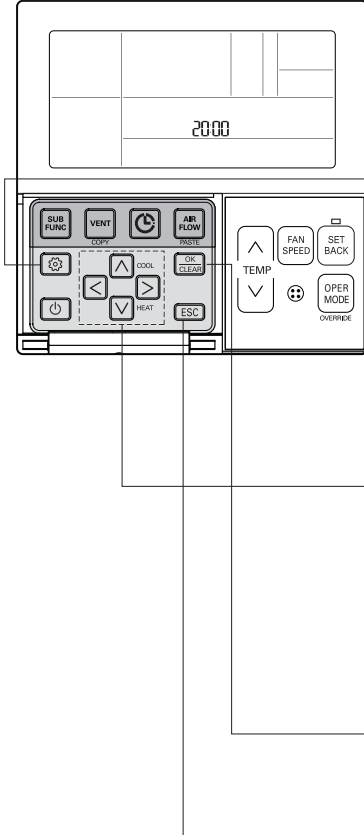1 : fan on

8 Press OK CLEAR button to save.

9 Press ESC button to exit or system will automatically exit after 25 seconds without any input.

Installer Setting - Option Function Setting

Setting feature for indoor unit when plasma purification / electric heater / humidifier / elevation grill / ventilation kit / auxiliary heater is newly installed, or installed unit is removed.

1 If pressing ⚙ button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2 If pressing ⚙ button repeatedly, it moves to the selected option function code as picture below.

Function	Code
Plasma purification	20
Electric heater	21
Humidifier	22
Elevation grill	23
Ventilation kit	24
Auxiliary heater	25

3 Select existing condition of each code by pressing ∧ ∨ button.

(00: not installed,
01 : installed)

2001

Function Code → Existing condition ←

4 Press OK/CLEAR button to save.

5 Pressing ESC button will exit settings mode.
✽ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
✽ When exiting without pressing set button, the manipulated value is not reflected.
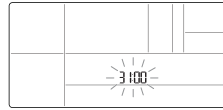
Installer Setting - Setting temperature range

This function is used for select setting temperature range option.
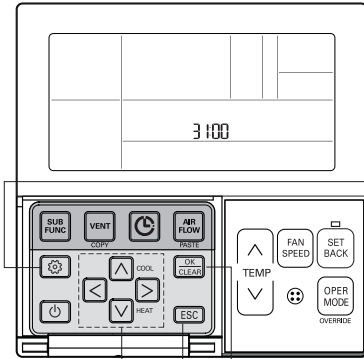
1 If pressing 🔅 button long for 3 seconds, it enters into Thermostat installer setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2 Repeat pressing 🔅 button to select Function code 31.

3 Select Temperature range by pressing ∧ ∨ button.
00(option1):
60~86 °F / 16~30 °C (default)
01(option2):
40~99 °F / 4~37.5 °C

4 Press OK/CLEAR button to save or release.
When the set values are changed, the items below will be initialized.
- Setting temperature
  (default: Cooling: 86 °F(30 °C)/ Heating: 60 °F(16 °C))
- Set back temperature
  (default: Cooling: 86 °F(30 °C)/ Heating: 60 °F(16 °C))
-Weekly Reservation

5 Press ESC button to exit or system will automatically exit after 25 seconds without any input.

In case of the setting temperature range option2(31:01), please note that the setting of the remote controller (with cable) can be altered under below circumstances. (Changes in setting example)
- In case of cooling at 30~37.5 °C(64~99 °F), it is changed to cooling at 86 °F(30 °C).
- In case of heating at 4~15.5 °C(40~86 °F), it is changed to heating at 60 °F(16 °C).
- If it is on the 2Set Mode, it is changed to the current operation mode(cooling or heating) of the indoor unit.

Situation where changes in the setting occur
a. Operates the Auto address work and pipe search in situations such as product installment and service.
b. Occurrence of errors and deactivation.
c. Command generated by the central control, outdoor unit, Dry contact, Remote controller, indoor unit switch.