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LG

Function Scheduler

Owner's & Installation Manual

Models: PQCSD130A0

ENGLISH

ITALIANO

ESPAÑOL

FRANÇAIS

DEUTSCH

DUTCH

РУССКИЙ ЯЗЫК

ΕΛΛΗΝΙΚΑ

PORTUGUÊS

IMPORTANT

- Please read this owner's & installation manual completely before installing the product.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- Please retain this owner's & installation manual for future reference after reading it thoroughly.

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Safety Precaution

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

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

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



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



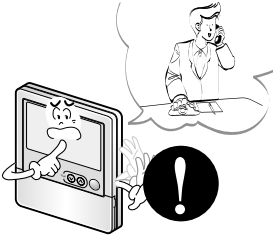
: Warning and Caution are indicated in this guide and the product itself to help protect the users from danger.

⚠ WARNING

■ Installation

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

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



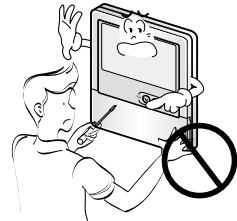
Request to the service center or installation specialty store when reinstalling the installed product.

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



Do not disassemble, fix, and modify products randomly.

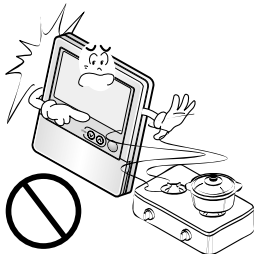
- It will cause fire or electric shock.



■ In-use

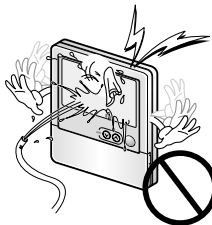
Do not place flammable stuffs close to the product.

- It will cause fire.



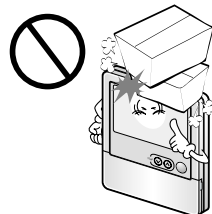
Do not allow water to run into the product.

- It will cause electric shock or breakdown.



Do not give the shock to the product.

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



Safety Precaution

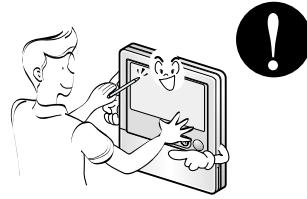
Request to the service center or installation specialty store when the product becomes wet.

- It will cause fire or electric shock.



Do not give the shock using sharp and pointed objects.

- It will cause breakdown by damaging parts.



CAUTION

In-use

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

- It will cause fire or product deformation.



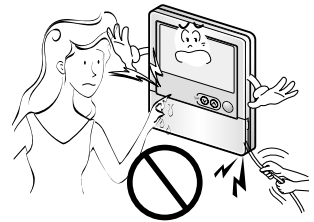
Do not press the screen using powerful pressure or select two buttons.

- It will cause product breakdown or malfunction.



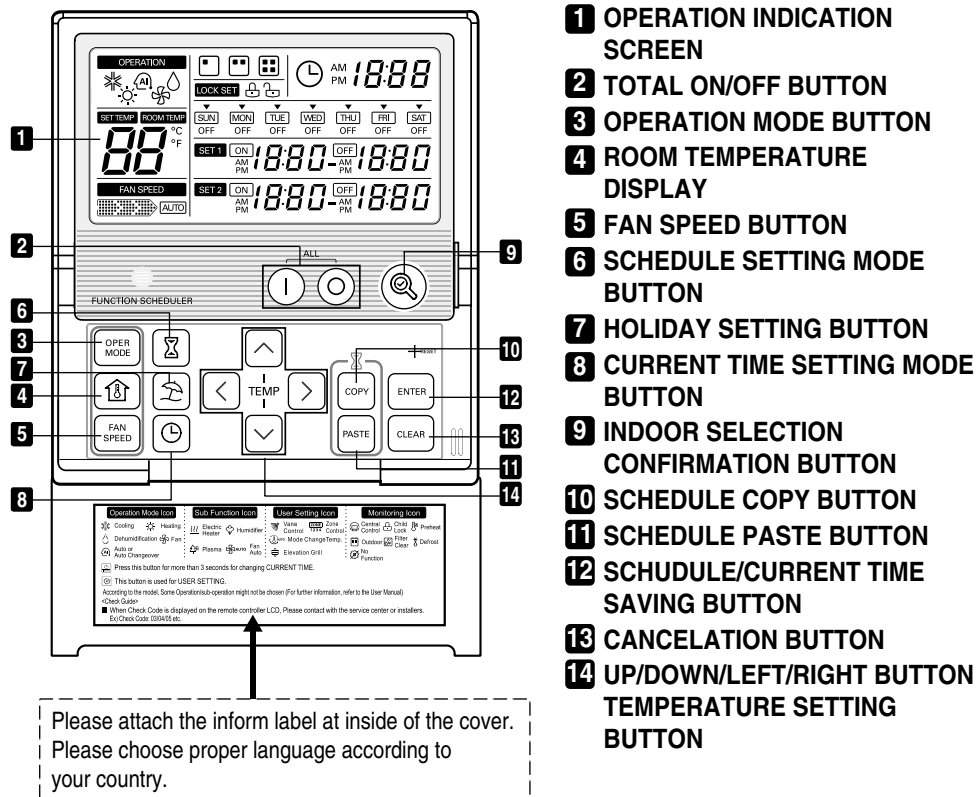
Do not touch or pull the lead wire with wet hands.

- It will cause product breakdown or electric shock.



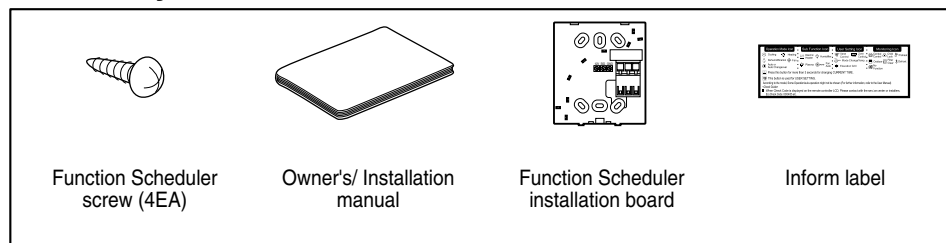
Part Description

Name and Function of Function Scheduler



* Some functions may not be operated and displayed according to the product type.

Accessory

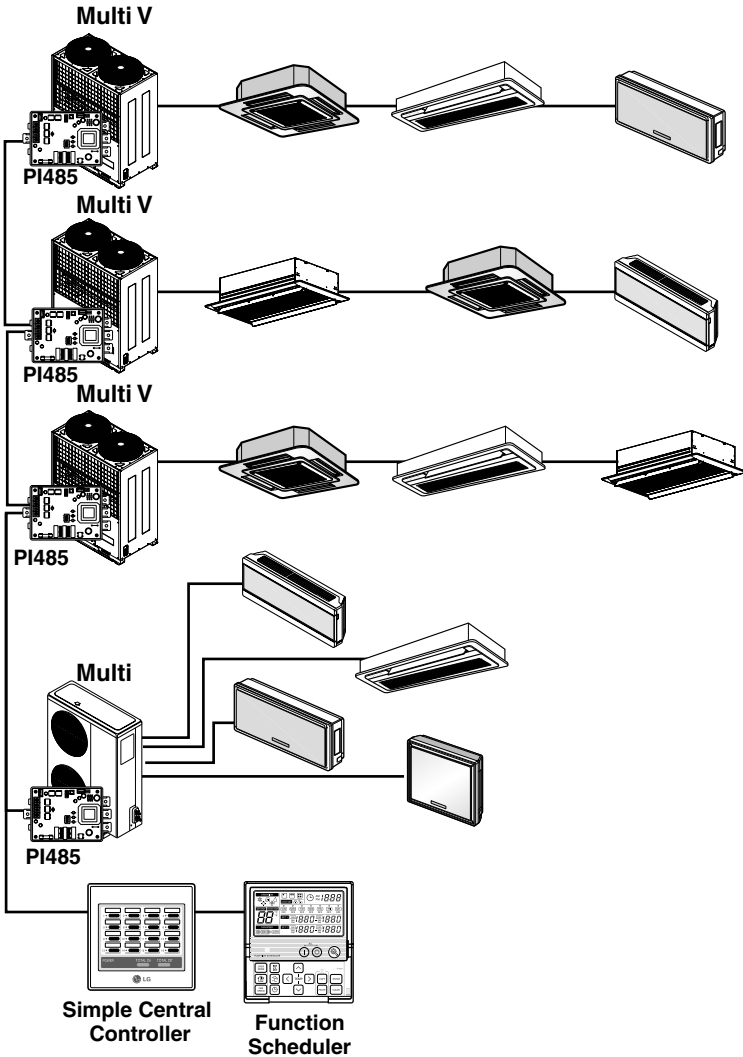


System Drawing

Function Scheduler is connected as below figure.

As Function Scheduler can be connected up to maximum 8 central controllers, total 128 indoor units can be controlled by Function Scheduler.

Indoor address must be set between 00 and 7F in hexadecimal code.

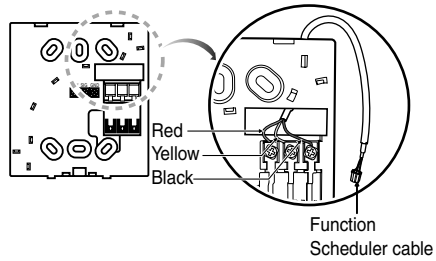


* Central controller and PI485 are products separately sold.
It is different as the outdoor unit.

Installation instruction

1. Connect Function Scheduler cable to Function Scheduler installation board as shown in the right picture.

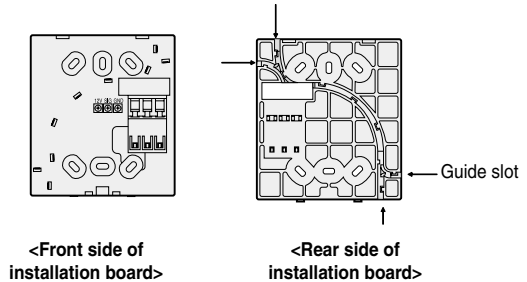
| | |
|-----|-------------|
| 12V | Red wire |
| SIG | Yellow wire |
| GND | Black wire |



* Function Scheduler cable is connected as factory default.

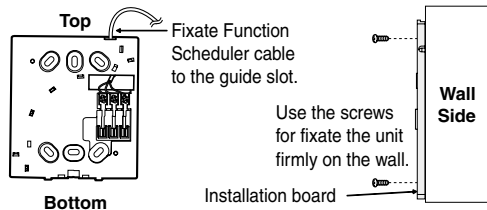
2. After fixing the cable to the guide slot, attach Function Scheduler installation board at the desired location.

- Before fixing Function Scheduler cable to the guide slot, remove any clogged part of the case in the direction to install before the installation.

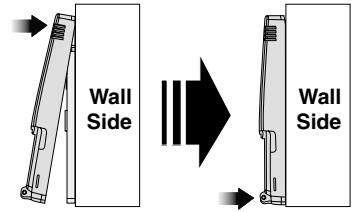


3. After locating Function Scheduler installation board at the desired location, screw the unit firmly. (When there is a buried box, install Function Scheduler board to fit the buried box.)

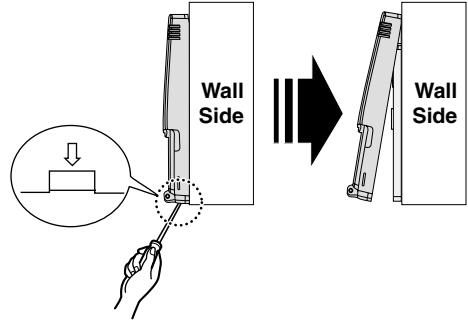
- Use the screws provided.



4. After fixing the top part of the remote controller to the installation board as shown in beside picture, press the bottom part to assemble the controller to it's board.



When disassembling the remote controller from the installation board, use the driver as shown in the right picture and insert it into the hole with the arrow. And when you pull the driver in the front direction, the remote controller will be separated.



⚠ CAUTION

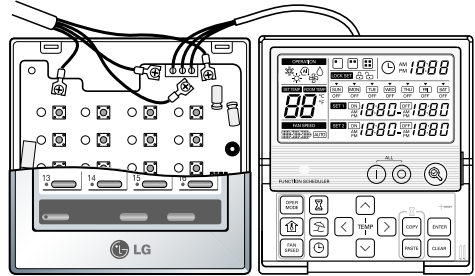
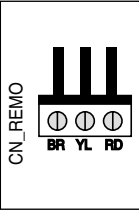
When installing Function Scheduler, do not bury it in the wall. (It can cause communication error.)

Connection Method of Function Scheduler

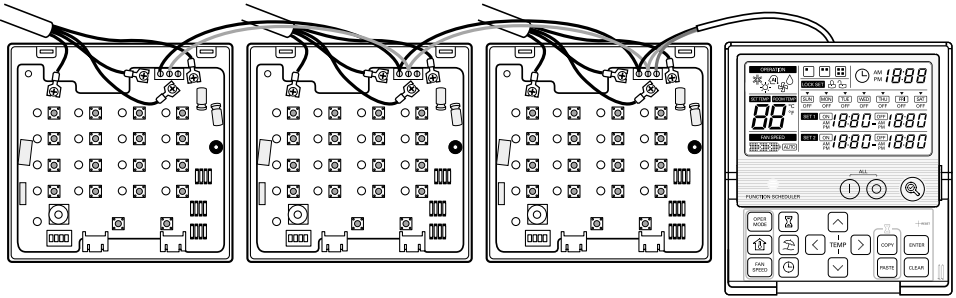
Turn off the power before the connection of Function Scheduler.

- 1 Connect colored cable of Function Scheduler to the corresponding terminal block of CN_REMO on the PCB of the central controller.

| Central controller CN_REMO | Function controller cable |
|-------------------------------|------------------------------|
| RD terminal (12V) | Red |
| YL terminal (signal) | Yellow |
| BR terminal (GND) | Black |



- 2 Connect red wires and brown wires to the corresponding terminal of the central controller CN_REMO respectively as right where the central controller is installed the following figure. The group address of central controllers must be set between 0 and 7.



- 3 Close the central controller case and check operation after turning on the power.

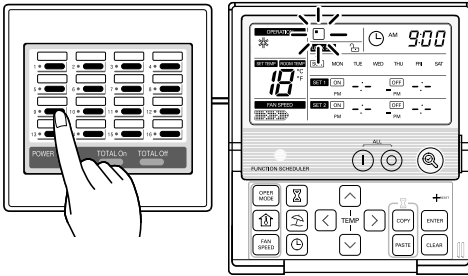



Caution

1. Use the communication cable provided with Function Scheduler.
2. Use 3P-0.75 Square Shield wires where cable extension is required.
3. Install cable length is within 1m.
4. If wiring is not proper, the product may be damaged or not operate when power is applied.

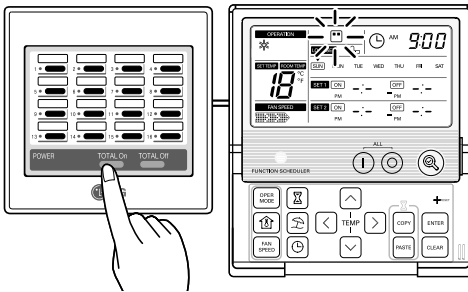
Owner's Instruction


Individual Operation



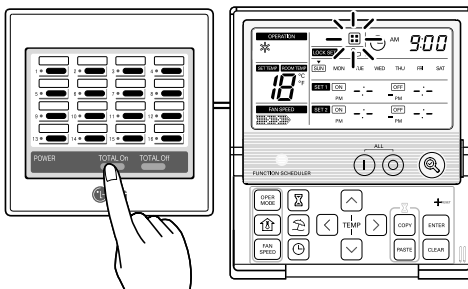
Press the individual Indoor On/Off button of central controller to select a indoor unit to control. Then current condition of corresponding unit is displayed and  icon is appeared. The selected unit will operate.


Total Control for Each Group



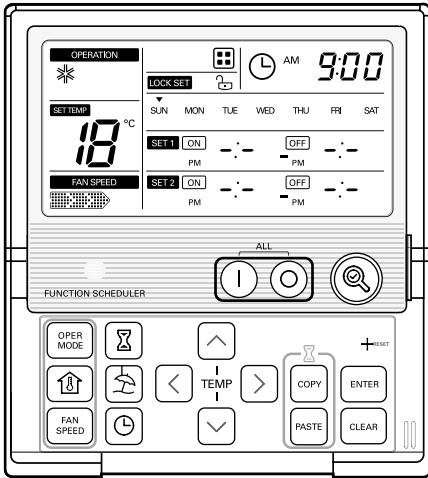
Press the Total On button of central controller to select all units of the group to control. Then corresponding group units operate sequentially and current condition of corresponding group's first unit is displayed and  icon is appeared. All indoor units of the group will operate.

Total Control for All Group



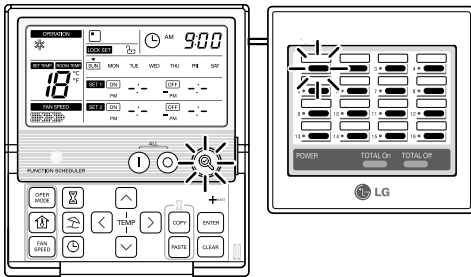
Press the Total On button of central controller for 2~3 seconds to select all units to control. Then, all units operate sequentially and current Condition of 1st unit of 1st group is displayed and  icon is appeared. All indoor units will operate.

Total On/Off Operation



1. This is the function that operates all connected indoor units.
2. Press the **1** button to turn on all connected indoor units.
3. Press the **2** button to turn off all connected indoor units.

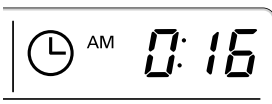
Selection of Indoor Unit



1. This is the function to confirm which indoor's condition is displayed in Function Scheduler.
2. Press the **2** button, then corresponding unit's LED blinks for 5 seconds.

It displays the number of indoor units for a moment which has reserved schedule(s).

EX)



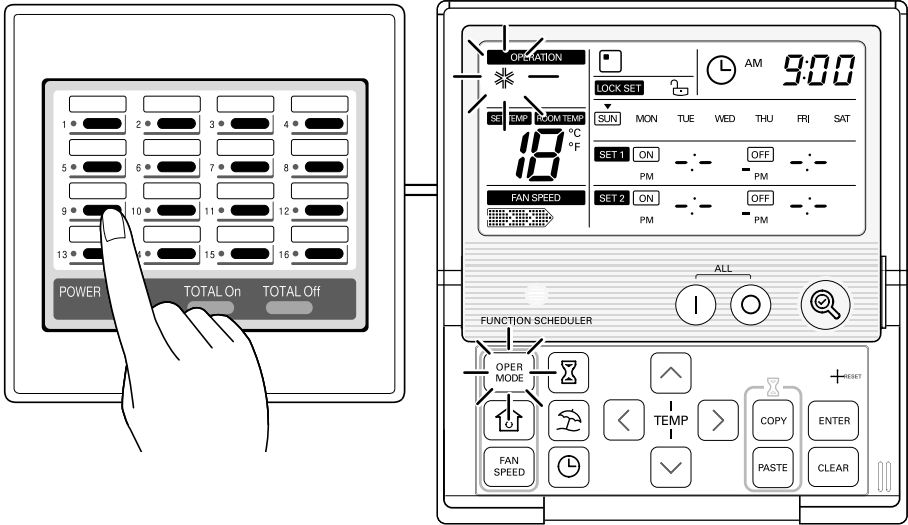
The number of schedule-set indoor units : 16





NOTE

- If you set a schedule after selecting a group or all indoor units, the number can be bigger than the number of actually connected indoor.

Cooling Operation

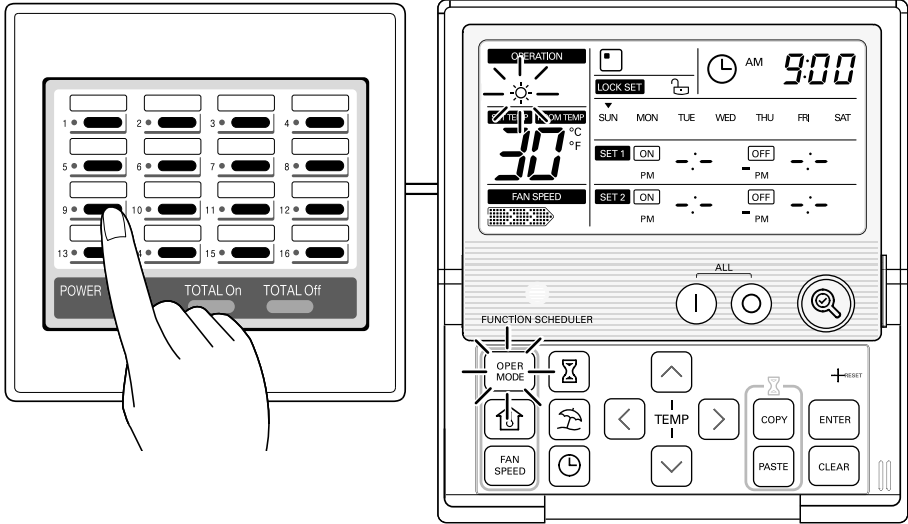
To run a indoor unit in Cooling mode




- 1** Select a indoor unit at central controller and press the  button to change cooling operation mode of Function Scheduler.
- 2** In Cooling Mode, Temperature can be set between 18 °C and 30 °C.
 -  Temperature increases 1°C by pressing the button once.
 -  Temperature decreases 1°C by pressing the button once.
- 3** To change Operation Mode, Press  button. Operation Mode is changed as following sequence **Cooling** → **Auto** → **Dehumidification** → **Heating** → **Fan**.



Heating Operation

To run a indoor unit in Heating mode



1 Select a indoor unit at central controller and press the  button to change cooling operation mode of Function Scheduler.

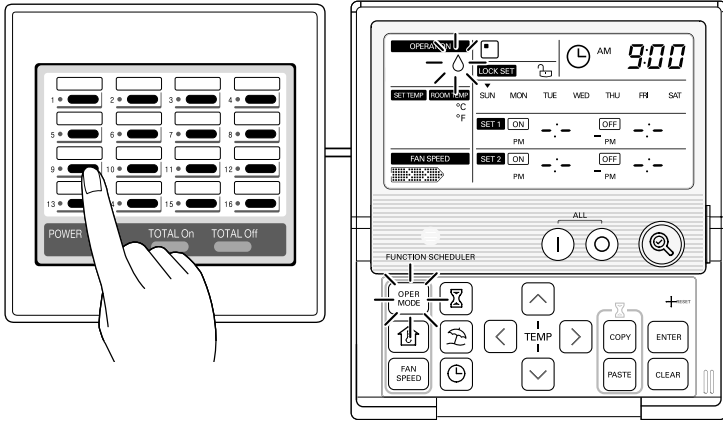
2 In Heating Mode, Temperature can be set between 18 °C and 30 °C.

-  Temperature increases 1°C by pressing the button once.
-  Temperature decreases 1°C by pressing the button once.

3 To change Operation Mode, Press  button. Operation Mode is changed as following sequence **Heating → Fan → Cooling → Auto → Dehumidification**.

Dehumidification / Fan Operation

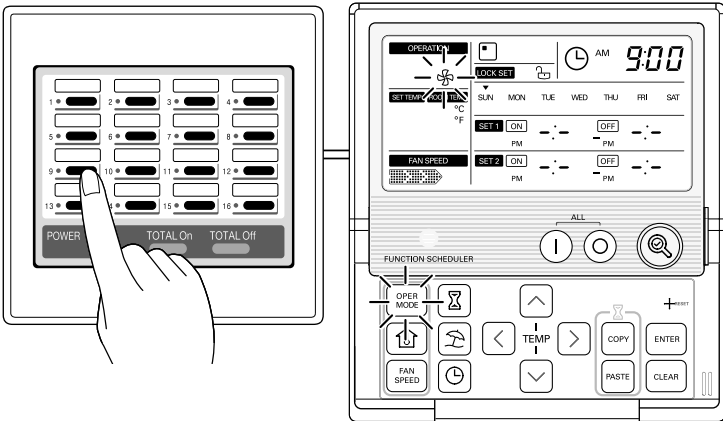
To run an indoor unit in Dehumidification mode



1 Set the Dehumidification mode by pressing the **OPER MODE** button after selecting the indoor unit.

- You can perform effective dehumidification operation and cooling operation at the same time if using this function in rainy season or much humidity.
- It is impossible to control temperature for dehumidification operation.

To run an indoor unit in Dehumidification mode

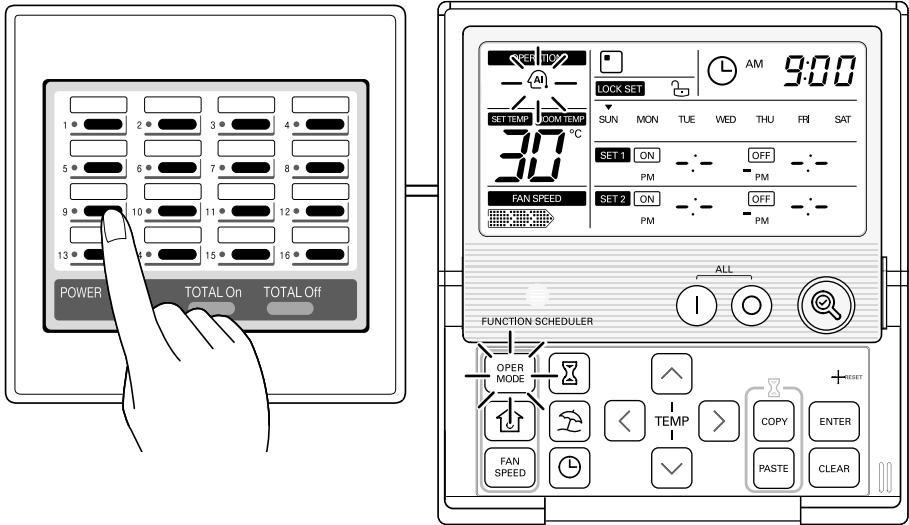



1 Set the Dehumidification mode by pressing the **OPER MODE** button after selecting the indoor unit.

- During fan operation, general fan wind comes out, not cold wind.
- Generating only wind without temperature difference in the room performs function to circulate indoor.
- In fan mode, desired temperature can not be changed.



Auto Operation


To run a indoor unit in Auto mode



1 Select a indoor unit at central controller and press the  button to change auto operation mode of Function Scheduler.

2 In Auto Mode, Temperature can be set between 18 °C and 30 °C.

-  Temperature increases 1°C by pressing the button once.
-  Temperature decreases 1°C by pressing the button once.

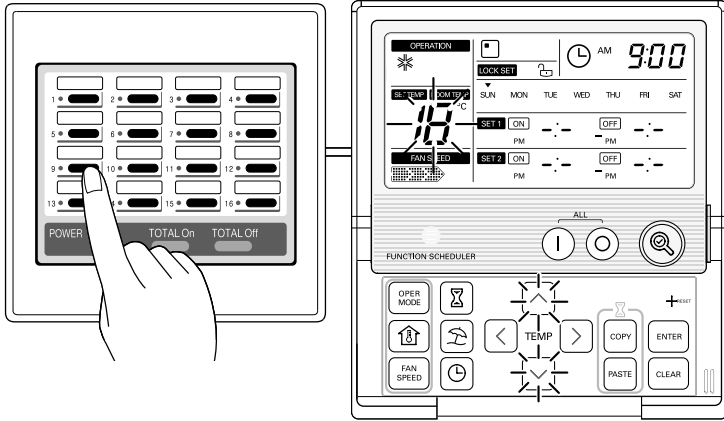
3 To change Operation Mode, Press  button. Operation Mode is changed as following sequence **Auto → Dehumidification → Heating → Fan → Cooling.**

NOTE

- The display of indoor units' status may be different from display on central controller, if the function is not provided by the product.

Temperature Control

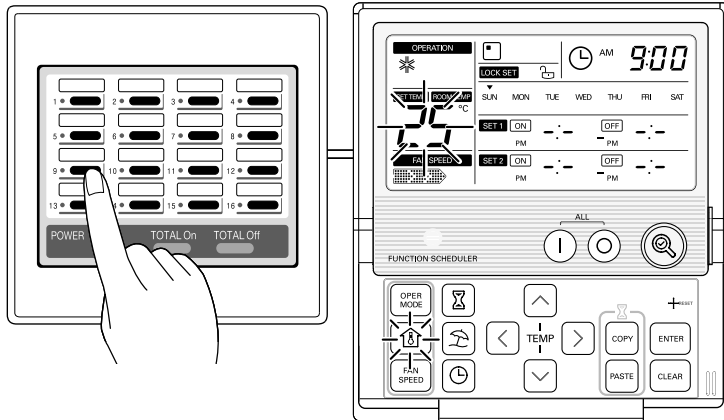
To change desired temperature




- 1 Set desired temperature by pressing the up or down button.
 - Temperature increases 1°C by pressing the button once.
 - Temperature decreases 1°C by pressing the button once.

Display of Room Temperature

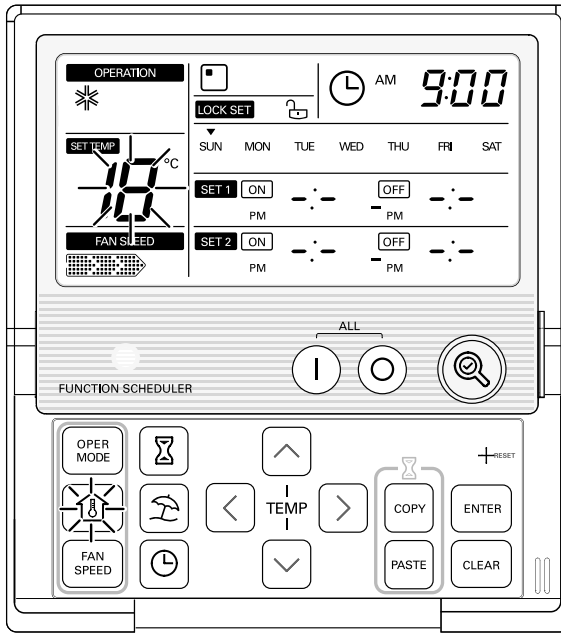
To display room temperature




- 1 Press  button of Function Scheduler.
- 2 Room temperature will be shown for 5 seconds and it will back to the desired temperature.

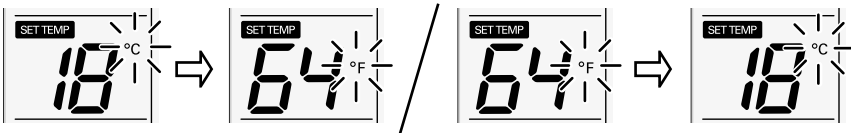
Celsius / Fahrenheit Switching

To change temperature display type from Celsius to Fahrenheit and vice versa




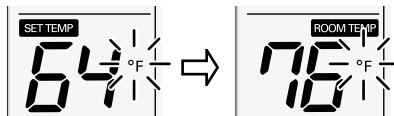
To change temperature display type from Celsius to Fahrenheit and vice versa

- 1 Press  button of Function Scheduler for about 5 seconds after selecting the indoor.



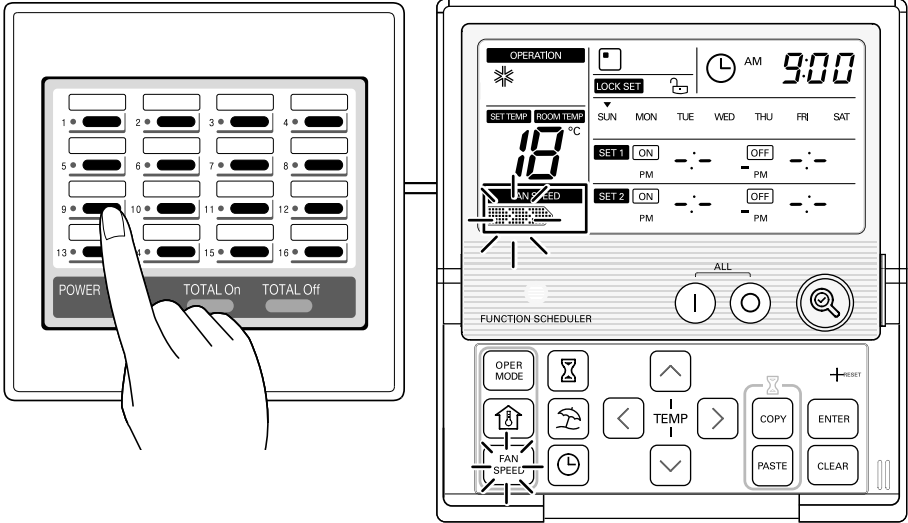
To display room temperature

- 1 Press  button of Function Scheduler.
- 2 Room temperature will be shown for 5 seconds and it will back to the desired temperature.




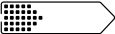

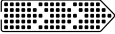

Fan Speed Control

To change fan speed



1 Set the fan speed by pressing the  button after selecting the indoor unit.

2 You can select fan speed in the order of Low/Middle/High/Auto by pressing the  button.

| Wind quantity | Window display |
|---------------|---|
| Low |  |
| Middle |  |
| High |  |
| Auto |  |

- In case of SLO, it displays Low.
- In case of Po, it displays High.

NOTE

- The display of indoor units' status may be different from display on central controller, if the function is not provided by the product.

Setting Lock

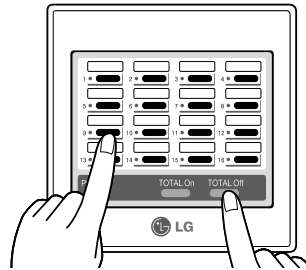
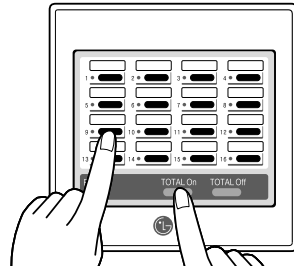
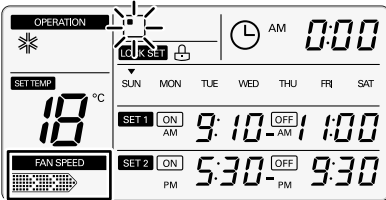
Control is available only by central controller & control by individual remote controller is impossible.

To lock an indoor unit

Press Total On and individual On/Off button at the same time.

- In this case, corresponding unit is controlled by only central controller.

After lock function is set, the corresponding LED of locked unit blinks for 5 seconds.



To release an indoor unit

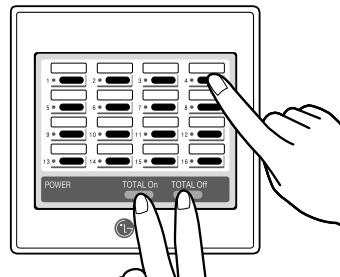
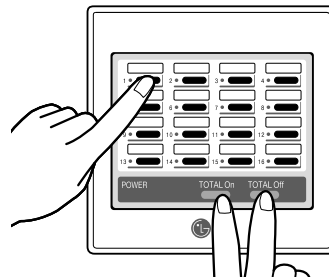
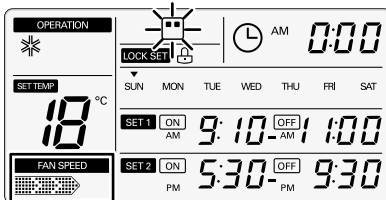
Press Total Off and individual On/Off button at the same time to cancel the lock function.

After lock function is canceled, the corresponding LED of unlocked unit blinks for 5 seconds.

To lock a group of units

Press Total On, Total Off and no. 1 button at the same time.

- All connected units are controlled by only central controller. After lock function is set, LEDs of all locked units blink for 5 seconds.

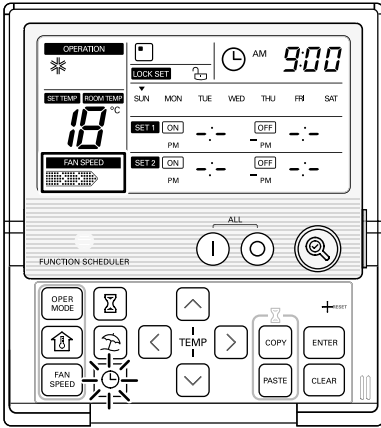



To release a group of unit

Press Total On, Total Off and no. 4 button at the same time to cancel the lock function.



- Lock of all units is canceled and the LEDs of all Unlocked units blink for 5 seconds.

Changing Current Time





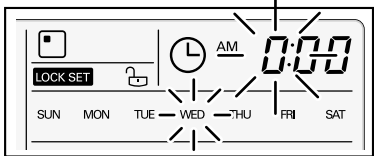
1 Keep pressing  button for 3 seconds to enter 'Current time' setting mode. The current day of week will blink and disappear schedule display part in window.





2 Select the current day by pressing the   button.



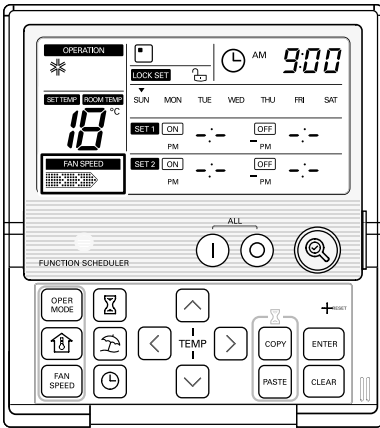
3 If day of week is selected, press the   button to move to 'hour' setting mode. Inverted triangle is displayed above corresponding day of week.





4 Set hour value by pressing the   button.

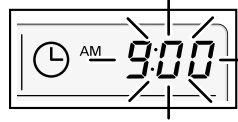




- AM/PM changes automatically as hour value.

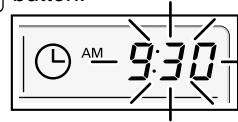



5 Enter 'Minute' setting mode by pressing   button.

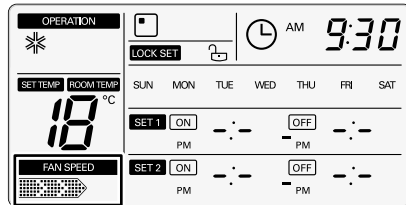
The 'Minute' will blink.




6 Select 'Minute' value by pressing   button.



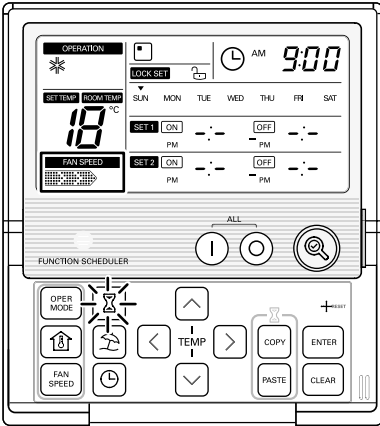
7 Press  button to configure 'Current time' setting.



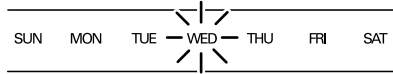
- To cancel time setting during setting, press  Button. The time will be back to previously configured time.

Programming : Schedule Reservation

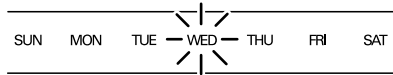
To turn on and off the air conditioner automatically at the certain time



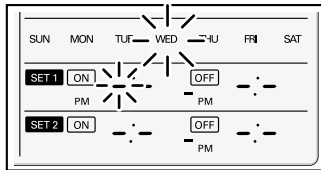
1 Press button to enter 'Schedule' setting mode.
The previously scheduled day of week will blink.



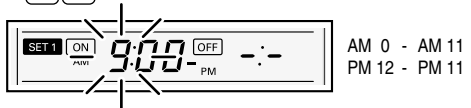
2 Select the desire day of week to schedule by pressing button.



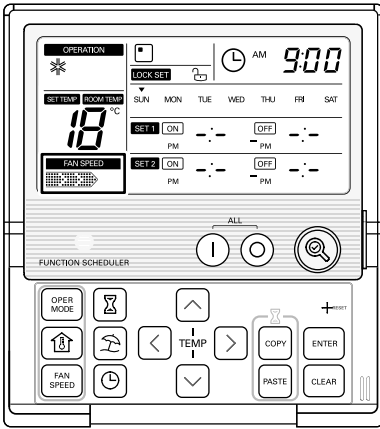
3 Press button to enter 'On Time Hour' setting mode of Schedule 1.
The 'On Time Hour' of Schedule 1 will blink, Schedule 2 will be not displayed.



4 Set 'On Time Hour' value by pressing button.

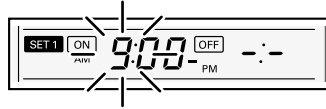


- AM/PM changes automatically as hour value.



5 Enter 'On Time Minute' setting mode by pressing button.

Minute will blink.



6 Set 'On Time Minute' value of Schedule 1 by pressing button.



00 ~ 50 (10 Minutes interval)

7 Enter 'Off Time Hour' setting mode of Schedule 1 By pressing button.

Time will blink.



8 Set 'Off Time Hour' value of Schedule 1 by pressing button.

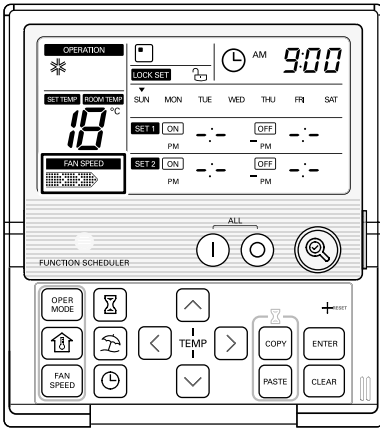


- AM/PM changes automatically as hour value.

9 Enter 'Off Time Minute' setting mode by pressing button.

Minute will blink.



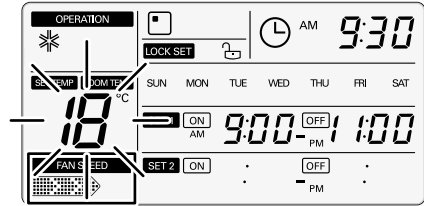


10 Set 'Off Time Minute' value of Schedule 1 by pressing button.



00 ~ 50 (10 Minutes interval)

11 Enter 'Function' setting mode of Schedule 1 by pressing button.



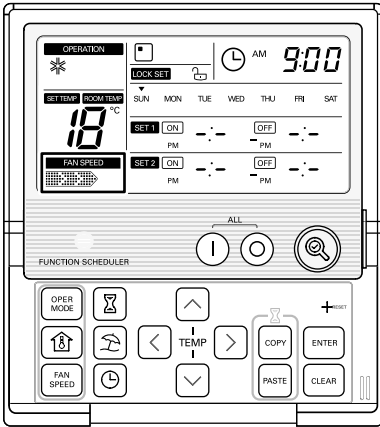
12 Set detail operation condition (operation mode, fan speed, desired temperature) of Schedule 1.

- ▶ operation mode : Select desired operation mode by pressing .
- ▶ fan speed : Select desired fan speed by pressing .
- ▶ desired temperature : Select desired temperature by pressing .

13 If you want to set schedule1 Only, press button to confirm Schedule 1.

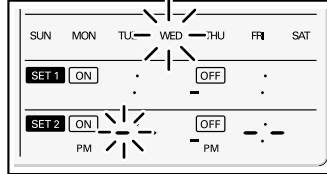
At the scheduled day of week, the border appear like .

* The border means that corresponding day of week has a programmed schedule.



14 Enter 'On Time Hour' setting mode of Schedule 2 by pressing button.

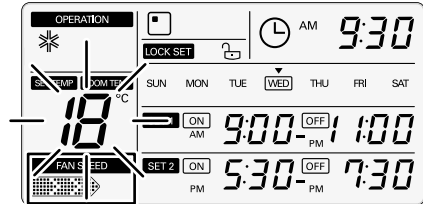
The 'On Time Hour' segment of Schedule 2 will blink, Schedule 1 will be not displayed.



15 Set Schedule 2 by repeating (4) ~ (12).

16 Press button to confirm 'Schedule' setting.

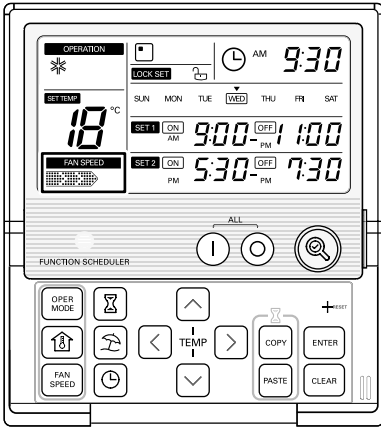
At the scheduled day of week, the border appear like .



- To cancel the scheduling during above process, press Button, then setting schedule is canceled and previously set schedule will be reloaded.

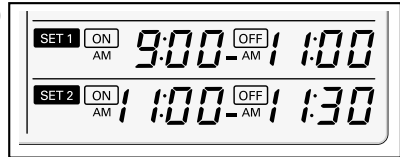
Programming : Schedule Priority

If two schedules are setup at same time, it operates higher priority schedule.



- 1 If the schedule time of Schedule 1 and 2 are same, the schedule time of Schedule 1 has higher priority than Schedule 2.

EX)



In case of the same schedule time of Schedule 1 and 2, as the schedule time of Schedule 1 has higher priority than Schedule 2, corresponding indoor unit will stop the operation at AM 11:00.

- 2 In same schedule, Off Time is higher priority than On Time.

EX)

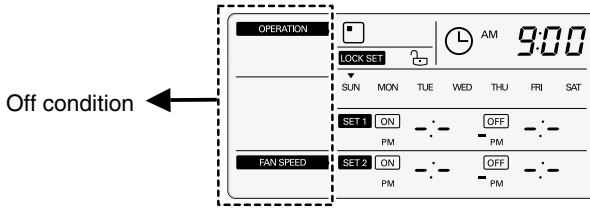


In same schedule, because Off Time is higher priority than On Time, corresponding indoor unit will stop the operation at AM 9:00.

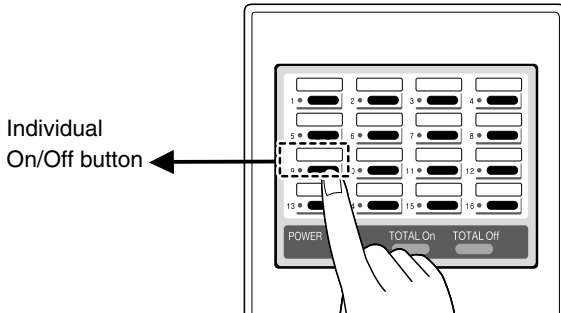
- On schedule setting mode, if you don't input anything, it will get out in 'Schedule' setting mode in a few seconds.

TIPS

- It is possible to set scheduler in off operation condition.



- It is able to select a unit without change its condition by pressing the individual On/Off button twice.



NOTE

- At schedule time setting, please make OFF TIME be later than ON TIME
Otherwise, it can cause abnormal behavior.

EX) If users set On time at AM 11:00 and Off time at AM 9:00, the scheduled indoor unit will be stopped at AM 9:00 and will be operated at AM 11:00. This operation can be different from the user's intention.

Therefore be careful at setting the schedule.



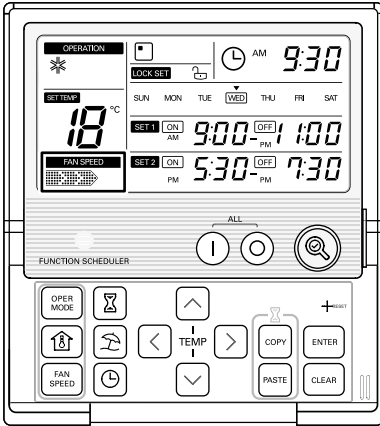
- During executing schedule(s), indoor units doesn't take any other command for several minutes (Remote Controller and Function Controller may not operate normally during this period).

■ DURING THE BLACKOUT

- ① If a blackout lasts longer than 2 hours, the already set schedule will not be executed after the blackout. (The current time must be set again.)
- ② During the blackout, the set schedule will not be executed.

Programming : Setting On/Off Schedule

To turn ON or OFF of air conditioner by setting the schedule



Setting on schedule

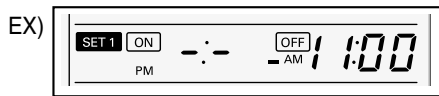
1 To schedule only "On time", make Off time be "-:-" by pressing .



If current time comes at AM 9:00, corresponding indoor will operate.

Setting off schedule

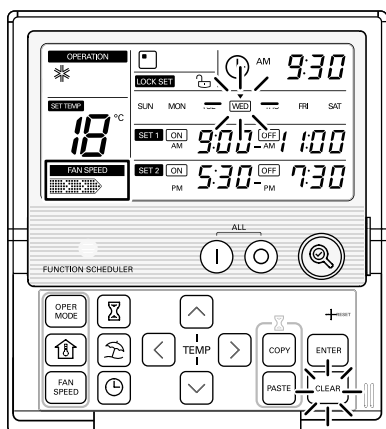
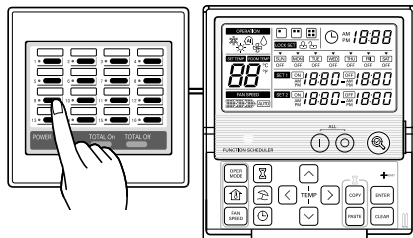
2 To schedule only "OFF time", make "On time" be "-:-" by pressing .



If current time comes at AM 11:00, corresponding indoor will stop.

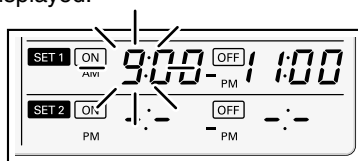
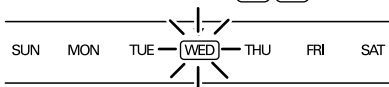
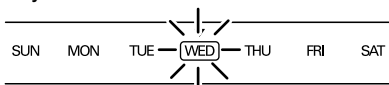
Programming : Deletion Schedule (Individual schedule)

To delete only one schedule of one indoor unit



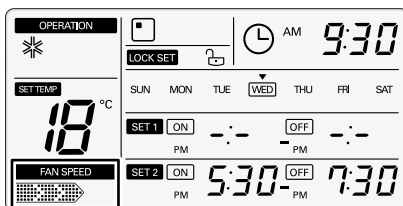
Individual schedule deletion (only Schedule 1 deletion)

- 1 Select desired indoor unit to delete schedule(s) by pressing the individual On/Off button in central controller .
- 2 Press button to enter 'Schedule' setting mode. The previously scheduled day of week will blink.
- 3 Select the day of week to delete a schedule by pressing button.
- 4 Press button to enter 'On Time Hour' setting mode of Schedule 1. The 'On Time Hour' of Schedule 1 will blink, Schedule 2 will be not displayed.



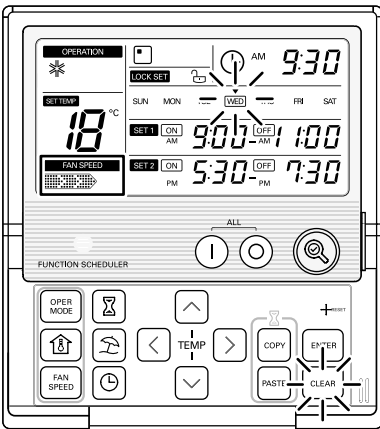
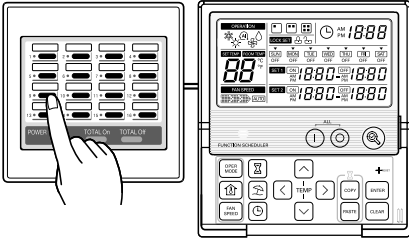
- In the middle of setting 'Schedule 2', if you keep pressing Button for 3 seconds, it will delete 'Schedule 2' and exit 'Schedule' setting mode.

- 5 Keep pressing button for 3 seconds to delete 'Schedule 1' of the corresponding day.



Programming : Deletion Schedule (Day schedule)

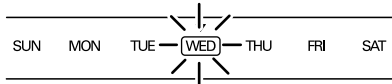
This is function that uses to delete one day schedule of one indoor unit.



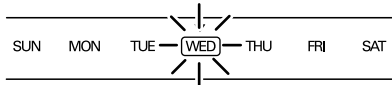
One day schedule deletion

1 Select desired indoor unit to delete schedule(s) by pressing the individual On/Off button in Central controller.

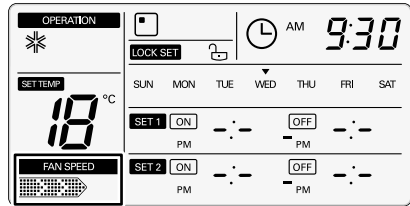
2 Press button to enter 'Schedule' setting mode. The previously scheduled day of week will blink.



3 Select the day of week that want to delete schedule(s) by pressing button.



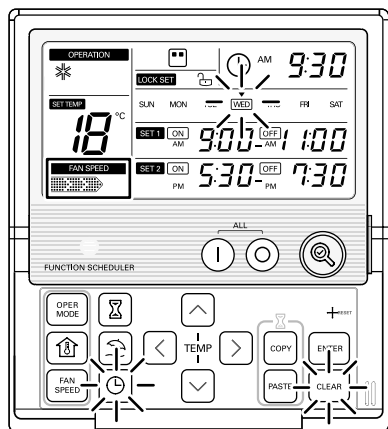
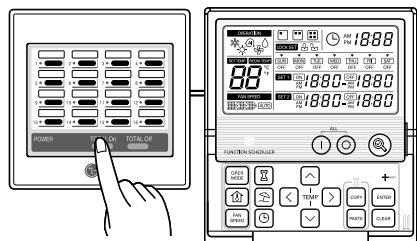
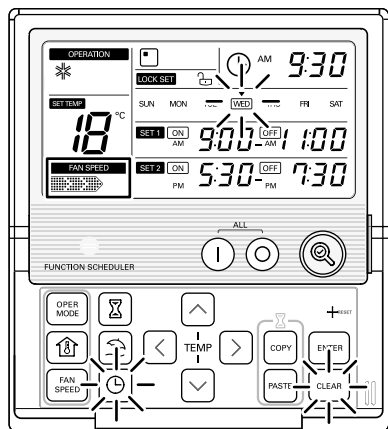
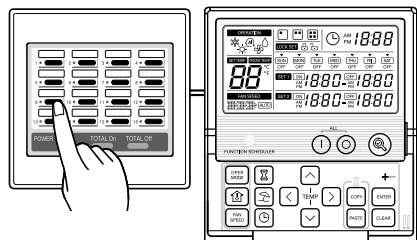
4 Keep pressing button for 3 seconds to Delete schedule(s) of the corresponding day.



NOTE

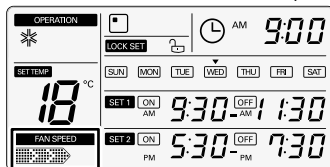
- How to delete On or Off schedule of 'Schedule 1' or 'Schedule 2' in 'Schedule' setting mode
 - ① Change hour and minute time value by pressing button until appearing "-: -". Then press button.
 - ② If you change both On Time and Off Time to appear "-: -" n 'Schedule 1' or 'Schedule 2', the schedule of 'Schedule 1' or 'Schedule 2' will be deleted.

Programming : Deletion Schedule (One indoor/Group schedule)

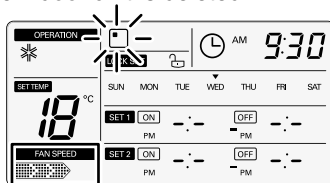


One indoor unit schedule deletion

- 1 Select desired indoor unit to delete schedule(s) by pressing the individual On/Off button in central controller. Then Function Scheduler will display (Individual indoor unit selection) icon.

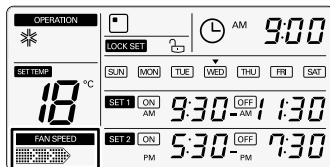


- 2 Press and button at the same time. After a while, icon will blink for about 3 seconds and total schedule of one indoor unit is deleted.

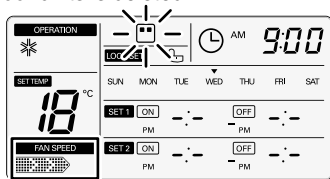


One group units schedule deletion

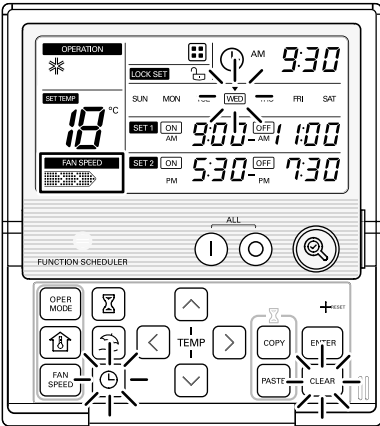
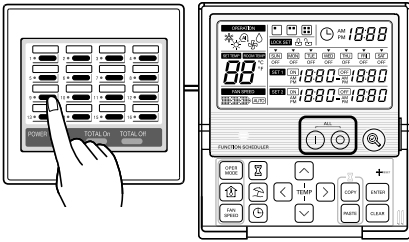
- 1 Select desired group units to delete schedule(s) by pressing Total On/Off button in central controller. Then Function Scheduler will display (group indoor units selection) icon.




- 2 Press and button at same time. After a while, icon will blink for about 3 seconds and total schedule of corresponding group indoor units is deleted.

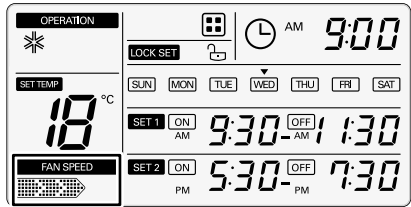





Programming : Deletion Schedule (All schedule)

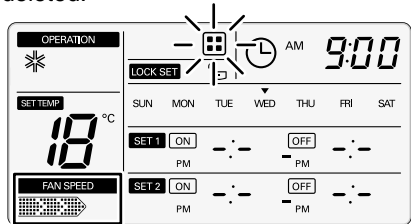


Total indoor units schedule deletion

- 1 Select all units to delete schedule(s) by pressing Total On/Off button in the Master central controller or Function Scheduler.
Then Function Scheduler will display  (all indoor units selection) icon.



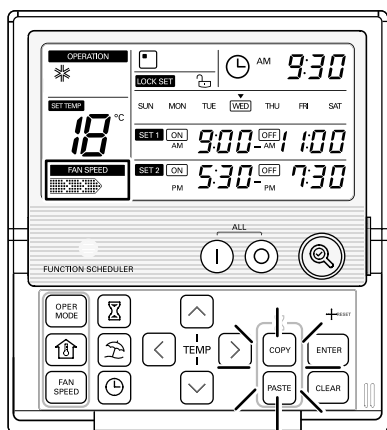
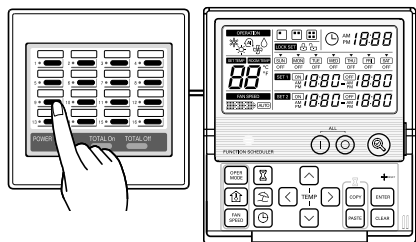
- 2 Press  and  button at same time. After a while (about 15~20 seconds),  icon will blink for about 3 seconds and total schedule of all indoor unit is deleted.




Programming : Schedule Copy

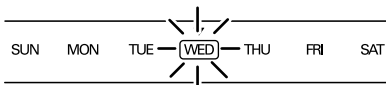
To apply a schedule to other days



(Example. To make a the schedule of Monday be same with Tuesday's one, use schedule copy/paste function.)

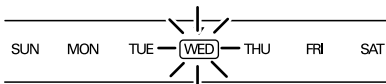



1 Select desired indoor unit to set schedule(s) in central controller by pressing the individual On/Off button.



2 Press  button to enter 'Schedule' setting mode. The previously scheduled day of week icon will blink.




3 Select the day of week to copy by pressing   button.




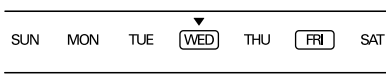
4 Press  button to copy the schedule of day.

5 Select the day of week to paste copied schedule by pressing   button. The corresponding day of week icon will blink.



6 Press  button to paste copied schedule for selected day of week.

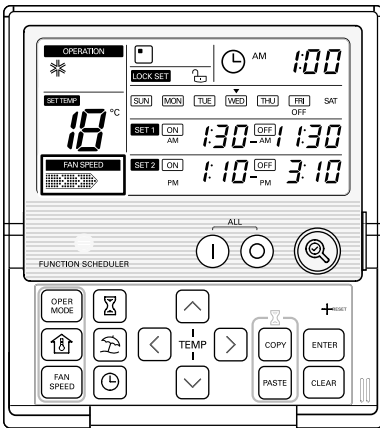
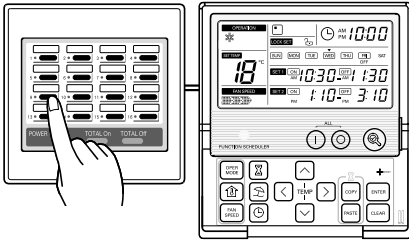
7 Press  button to save pasted schedule then, a border will appear at the scheduled day and scheduling is completed.



- It is possible to save copied schedule to several days of week at same time.

Programming : Holiday Reservation

- This function is prevent from keeping air conditioners turned on 'Holiday or Off day'.
- 'OFF' icon is displayed at the day programmed as 'Holiday'.



- On the day programmed as a holiday, Schedule(s) will not work.
- On the day programmed as a holiday, indoor units will be turned off every hour.
- It is possible to save holiday setting for several days of week.

Holiday Reservation

- Select desired indoor unit to schedule in central controller by pressing the individual On/Off button.
- Press button to enter 'Schedule' setting mode. The previously scheduled day of week icon will blink.

SUN MON TUE **WED** THU FRI SAT
- Select the day of week to program as a holiday by pressing button.

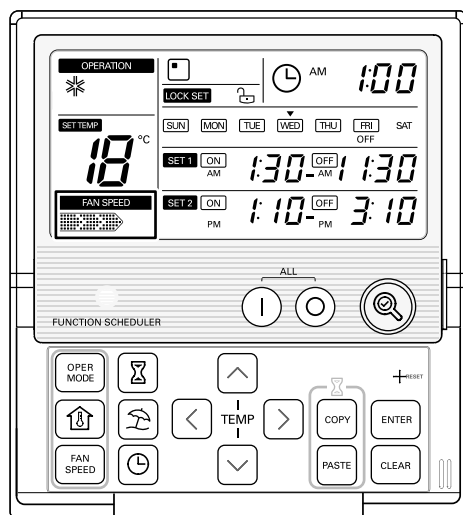
SUN MON TUE **WED** THU FRI SAT
- Press button to make the selected day be 'Holiday', then 'OFF' will be displayed below the selected day and it will blink 5 seconds.

SUN MON TUE **WED** THU FRI SAT
OFF
- Press button to save holiday schedule to selected day of week. At that time, the saved day of week will stop blinking.

SUN MON TUE **WED** THU FRI SAT
OFF

Self-diagnosis of Indoor Unit

This is function displayed when check code is received from the central controller.



- 1 Select the indoor unit with failure status by pressing individual operation/stop button of the central controller.
- 2 A "CH" or "xx" (number) is repeatedly displayed on the operation display window of Function Scheduler to represent Error code.

EX) In case of Error Code 05 : CH 05

