Fig. 3

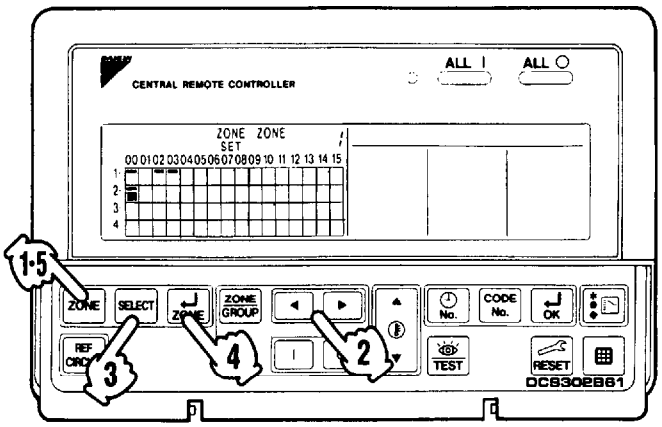


Fig. 4

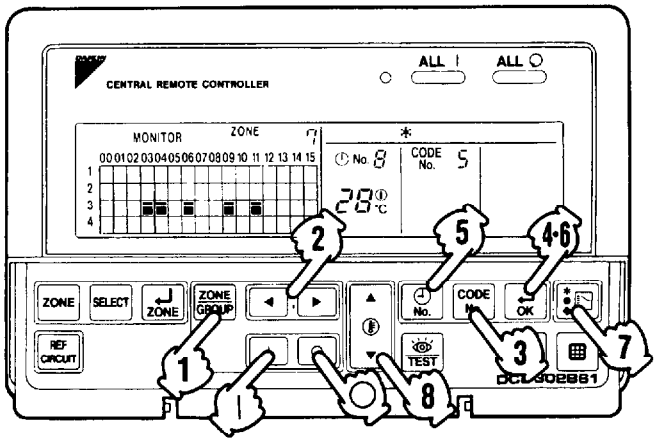


Fig. 5

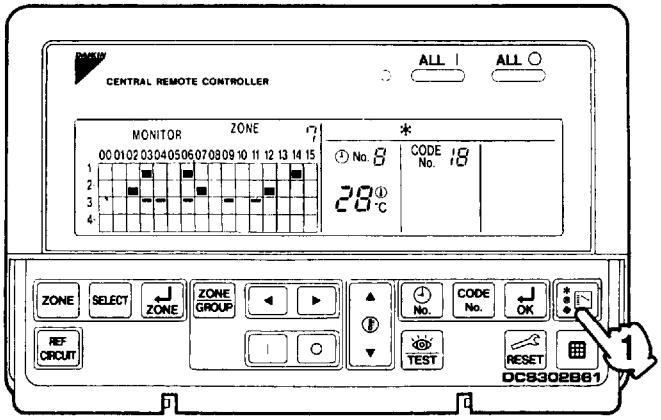


Fig. 6

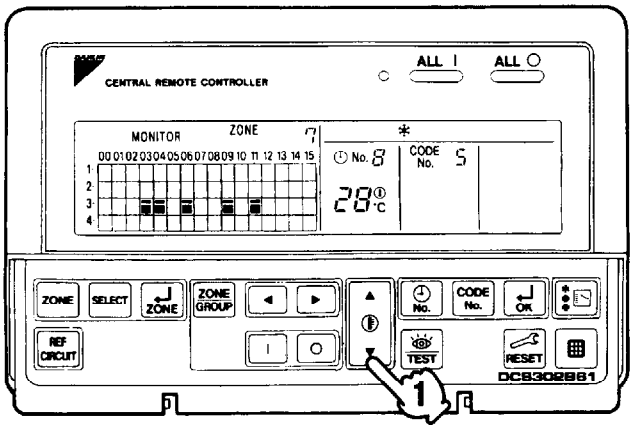


Fig. 1

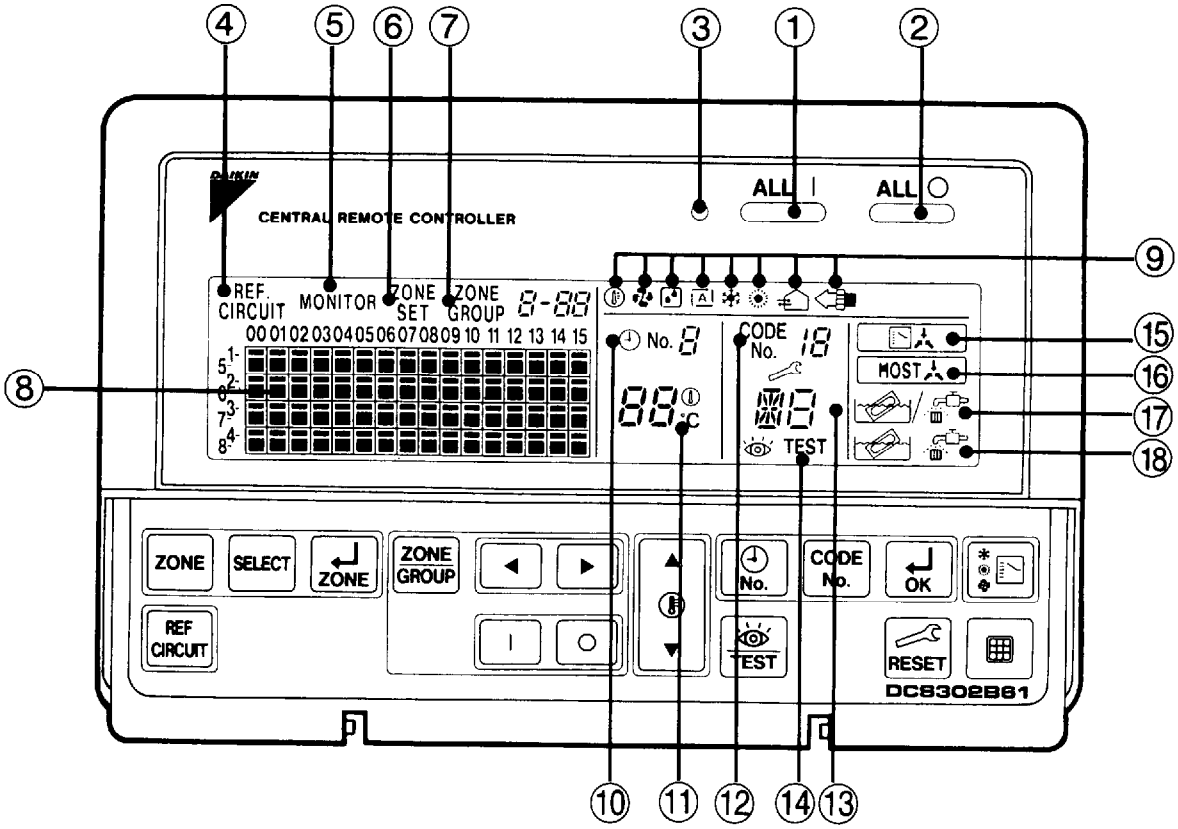

CENTRAL REMOTE CONTROLLER
ALL
ALL
REF. CIRCUIT
MONITOR
ZONE SET
ZONE GROUP
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15
No.
CODE No.
TEST
MOST
ZONE
SELECT
ZONE
ZONE GROUP
REF CIRCUIT
No.
CODE No.
OK
TEST
RESET
DC8302B61
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

Fig. 2

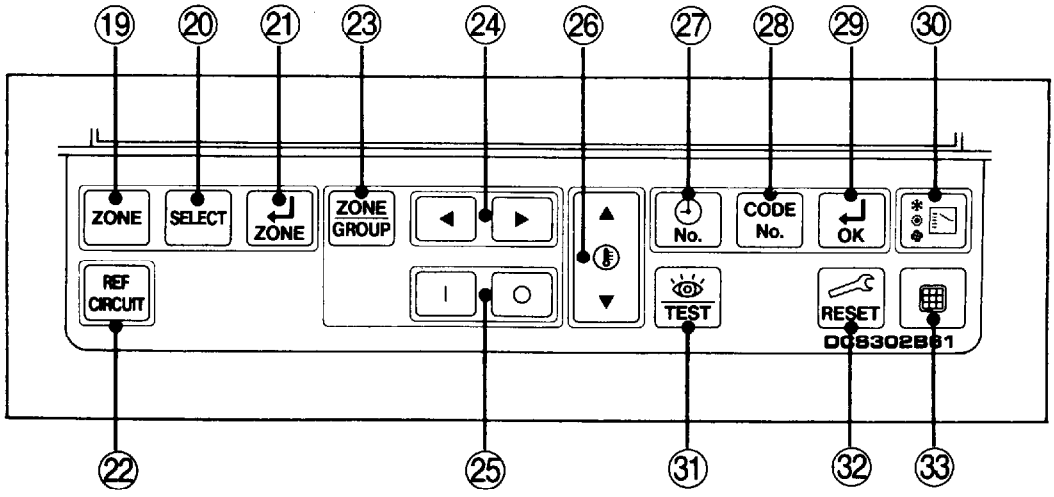

ZONE
SELECT
ZONE
ZONE GROUP
REF CIRCUIT
No.
CODE No.
OK
TEST
RESET
DC8302B61
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33

Fig. 7

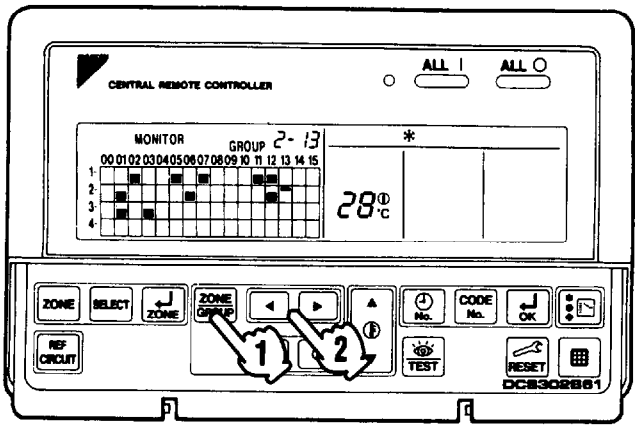


Fig. 8

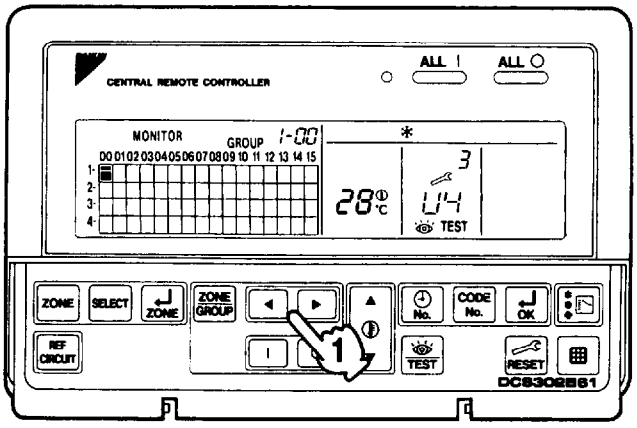


Fig. 9

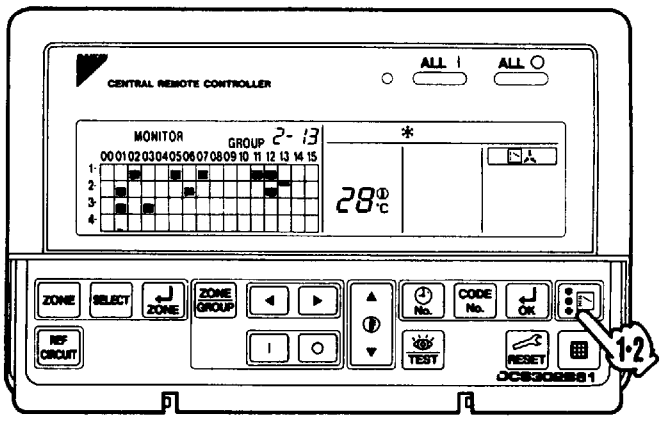


Fig. 10

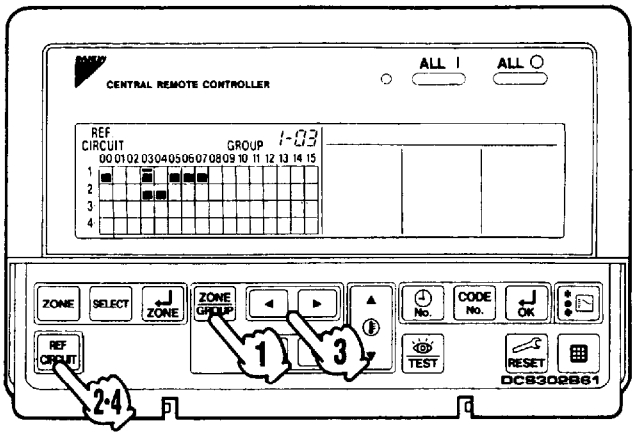


Fig. 11

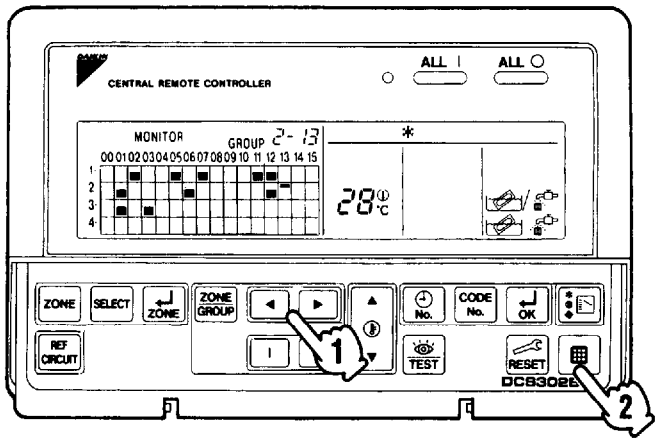
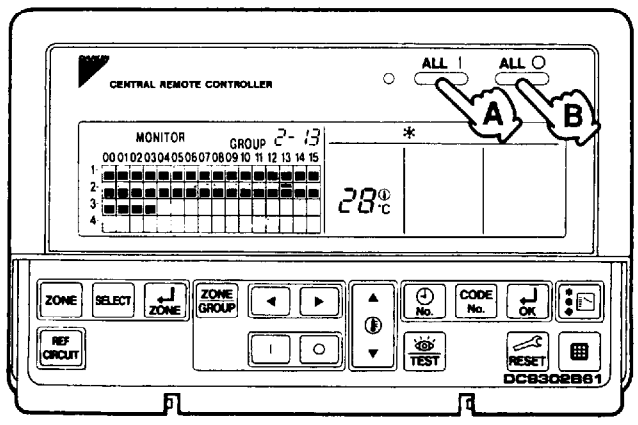


Fig. 12



FEATURES AND FUNCTIONS

■ Operation menu

This central remote controller enables the individual operation/stop by zone, and unified operation/stop. ON/OFF operation controlled by timer is possible in conjunction with the schedule timer (optional accessory).

See page 160–161, 169

■ Various operation modes.

You can operate the system from both this unit and the remote controller, so to enable various operation control patterns. Twenty different operation modes are available including five operation patterns: ON/OFF control impossible by remote controller, only OFF control possible by remote controller, centralized, individual and centralized (ON/OFF control possible by remote controller only with the timer ON); and temperature setting possible/impossible by remote controller and operation mode selecting possible /impossible by remote controller.

See page 162

■ Zone control for simpler operation

You can control a maximum of 64 groups of indoor units by using this central remote controller. You don't have to repeat the same setting operations by group because you can make each of the following settings by zone.
Also, there is a function which allows you to unify settings in all groups. (When set to Zone No. 0, all the below settings are unified for all groups.)

- ○ Operation mode
- ○ Control mode
- ○ Setting temperature
- ○ Programming time No. (Used in conjunction with the schedule timer)

See page 160–166

■ Monitor and display operating conditions of indoor units by group

You can display operating conditions such as operation mode and preset temperature; maintenance information such as time to clean, etc.; and information on trouble such as malfunction codes.
* "Time to clean" sign refers to the following functions.

- ○ Display the time to clean air filter and the air cleaner element of electric dust collector for each group.
- ○ Display the time to clean when signaled from any given group.

See page 166–168

■ Function of refrigerant system display

This display helps you understand, at a glance, the indoor units sharing the same outdoor unit and the particular indoor unit among them that is set as the master remote controller.

See page 168

- Utilizing one of the PC board adaptors (optional accessories) will enable you to combine this unit with the split A/C units and unitary A/C.
  However, be sure to refer to the installation manual attached to each PC board adaptor for function limitations.

NAMES AND FUNCTIONS OF THE OPERATING SECTION (Fig. 1, 2)

①	**UNIFIED OPERATION BUTTON** Press to operate all indoor units.
②	**UNIFIED STOP BUTTON** Press to stop all indoor units.
③	**OPERATION LAMP (RED)** Lit while any of the indoor units under control is in operation.
④	**"REF. CIRCUIT" DISPLAY (REFRIGERANT SYSTEM DISPLAY)** The indication in the square is lit while the refrigerant system is being displayed.
⑤	**"MONITOR" DISPLAY (OPERATION MONITOR)** The lamp is lit while operation is being monitored.
⑥	**"ZONE SET" DISPLAY (ZONE SETTING)** The lamp is lit while setting zones.
⑦	**"ZONE" "GROUP" DISPLAY (ZONE/GROUP)** Indicates the particular zone or group being displayed.
⑧	**GROUP NO. IN OPERATION** Each square displays the state corresponding to each group.
⑨	**" " " " " " " " " " " " DISPLAY (OPERATION MODE)** Displays operating state.
⑩	**" No. " DISPLAY (TIME NO.)** Displays the operation timer No. when used in conjunction with the schedule timer.
⑪	**" 88 °C " DISPLAY (PRESET TEMPERATURE)** Displays the preset temperature.
⑫	**" CODE No. 18 " DISPLAY (CONTROL MODE)** Displays codes on how to control equipment (ON/OFF control impossible by remote controller, centralized, individual etc.). Displays the No. of the particular unit that has stopped due to malfunction.
⑬	**" " DISPLAY (MALFUNCTION CODE)** Displays the contents of a malfunction. The lamp flashes when a malfunction stops operation. The contents of the current malfunction are displayed in the inspection mode.
⑭	**" TEST " DISPLAY (INSPECTION/ TEST)** Press the inspection/test operation button. Either the inspection or test lamp lights up.
⑮	**" " DISPLAY (CHANGEOVER UNDER CONTROL)** Cool/heat selection is not possible for either the zone or the group where this particular display appears.
⑯	**" HOST " DISPLAY (UNDER HOST COMPUTER INTEGRATED CONTROL)** Setting is not possible while this display is being displayed.
⑰	**" " DISPLAY (TIME TO CLEAN)** Displayed to notify the user it is time to clean the air filter or air cleaner element of a particular group.

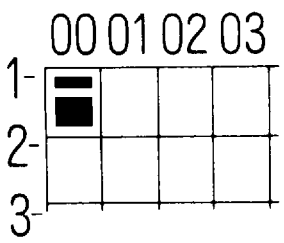
⑱	**"  " "  " DISPLAY (TIME TO CLEAN AIR CLEANER ELEMENT/ TIME TO CLEAN AIR FILTER)** Displayed to notify the user it is time to clean the air filter or air cleaner element of the group displayed.
⑲	**ZONE SETTING BUTTON** Turns zone setting mode ON/OFF.
⑳	**SELECTOR BUTTON** Selects the group to be assigned to a zone.
㉑	**ZONE OPERATION ON/OFF BUTTON** Finalizes the zone.
㉒	**BUTTON FOR REFRIGERANT SYSTEM DISPLAY** See page 168.
㉓	**ZONE/GROUP CHANGEOVER BUTTON** Switches display "zone" to display "group" or vice versa.
㉔	**ADVANCE/BACKWARD BUTTON** See page 159.
㉕	**ON/OFF BUTTON** Starts/stops operation by zone.
㉖	**TEMPERATURE SETTING BUTTON** Press to set temperature.
㉗	**TIME NO. BUTTON** Selects time No. (Use in conjunction with the schedule timer only).
㉘	**CONTROL MODE BUTTON** Selects control mode.
㉙	**TIMER ON BUTTON** Sets control mode and time No.
㉚	**OPERATION MODE SELECTOR BUTTON** See page 165.
㉛	**INSPECTION/TEST OPERATION BUTTON** Press to run inspection or test run.
㉜	**CLEARING BUTTON FOR MALFUNCTION CODE MEMORY** Press to clear malfunction code.
㉝	**FILTER SIGN RESET BUTTON** See page 168.

(Notes)
1. Please note that all the displays in the figure appear for explanation purposes or when the cover is open.
2. If the unit is used in conjunction with other optional central controllers, the OPERATION LAMP of the unit that is not under operation control may light up and go out a few minutes behind schedule. This shows that the signal is being exchanged, and does not indicate any failure.

ZONE SETTING (Fig. 3)

You can set multiple groups under a single zone to control them by zone. This equipment is factory set for 64 zones of 1 group per every zone at the time of shipment.

1 Press the ZONE SETTING BUTTON, and "ZONE SET" is displayed.



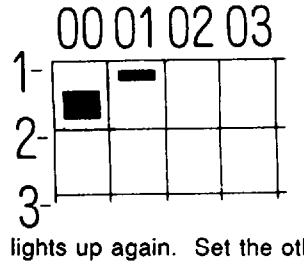
Zone No. 1 is displayed. Then, operation monitor display "▬" of group No. lights up in the displayed zone. The display "■" of the lowest group No. lights up.

2 Press the ADVANCE/ BACKWARD BUTTON to move the display "■" to the group of the desired zone. Holding the button down will quickly move the display.

3 Press the SELECTOR BUTTON to set the above group in the zone. The display "▬" of the selected group lights up.

Repeat procedures 2 – 3 to select all desired groups for the zone. The example in the left, groups 1-00, 1-02, 1-03 and 2-00 are set in the zone No. 1.

4 Press the ZONE OPERATION ON/OFF BUTTON to finalize the zone. This zone becomes finalized, and the next zone No. is displayed.



The zone No. advances one at a time. The display "▬" of the group that has already been set is lit in the displayed zone. The display "■" of the lowest group No. lights up again. Set the other zones as well following procedures 2 – 4.

In the above example, the zone No. 2 is displayed. Then, the display "■" of the lowest group No. that has already been set lights up.

5 Press the ZONE SETTING BUTTON again, to finish zoning.

The current display goes out, and the normal display appears.

NOTES

- To clear all registered zones
  Display "ZONE SET". Then, hold down both RESET and ALL ○ for about 4 seconds. This will clear all registered zones.
- If you have set a group in the wrong zone, reset it in the correct zone. (The last zone set is judged to be effective.)
- You cannot set the same group in multiple zones.
- When you turn ON the power, the system may display "88" for approximately one minute and may not respond to operation until all the liquid crystal display appears.
- Unless operated from within one minute from when the display of zoning appears, the display will automatically revert back to the "group" display.
- A single setting will simultaneously determine the same setting of all the groups in the zone. So, pay attention to the following points in setting the zone.

1. The control mode must be the same for all groups in the zone.
2. The scheduled operation must be the same for all groups in the zone, if the operation is controlled by the timer.
3. The cool/heat operation mode must be the same for all groups in the zone.
4. The preset temperature must be the same for all groups in the zone.

   Note) Be sure to select the "– –" in executing the operation by zone, as well as to set the operation mode and the temperature setting unless the uniform operation is performed in the above 3 and 4. (See page 160.)

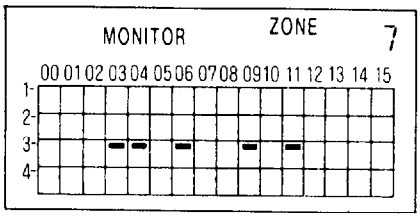
OPERATION

OPERATION BY ZONE (Fig. 4)

Flow of operation by zone

Call up the desired zone.
▼
Set the control mode.
▼
Set time No.
▼
Set operation mode.
▼
Set temperature.
▼
Start operation.
▼
Stop

1 Press the ZONE/GROUP CHANGEOVER BUTTON, to call up the display of zoning.



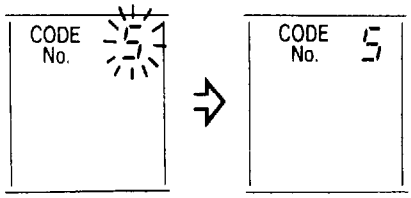
The display " ▬ " of the group set in the display zone lights up.

2 Press the ADVANCE/ BACKWARD BUTTON, to select the zone No. Holding it down will quickly move the display.

3 Press the CONTROL MODE BUTTON, to call up the desired code No.(See page 162.) Following the change, the display flashes.

Setting is not possible when using a data station or parallel interface.

4 Press the TIMER ON BUTTON. Press the TIMER ON BUTTON within 10 seconds after the code No. is displayed. The display stops flashing and lights up solidly.



The display returns to its original state after no less than 10 seconds.

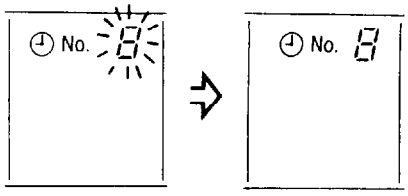
(only in conjunction with the schedule timer)

5 Press the TIME No. BUTTON, to select the desired time No.. When you change the setting, the display flashes. If you don't wish to program the NOITG time, set timer No. to " — ".

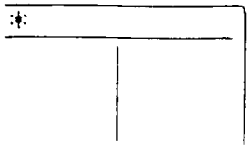
Check the timer No. of the schedule timer. If the schedule timer is not programmed, set the program in accordance with the instruction manual of schedule timer.

6 Press the TIMER ON BUTTON, to finalize the time No. The display flashes, and then lights up solidly. Press the TIMER ON BUTTON within 10 seconds after the time No. is displayed.

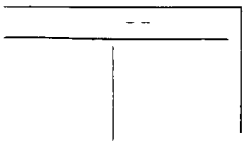
The display returns to its original state after no less than 10 seconds.



7 Press the OPERATION MODE SELECTOR BUTTON, to call up the desired mode. If you don't wish to execute the unified setting in the zone, set it to "– –". (See page 167 for further details.)



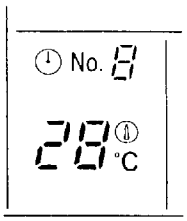
Cooling mode is selected.



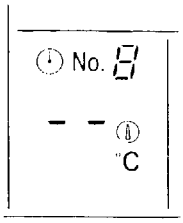
Unified operation is not set within the zone.

8 Press the TEMPERATURE SETTING BUTTON.

Each time you press the " ▲ ", the temperature rises by 1°C.
Each time you press the " ▼ ", the temperature falls by 1°C.
If you don't wish to execute the unified setting in the zone, set it to "– –". (See page 168 for further details.)



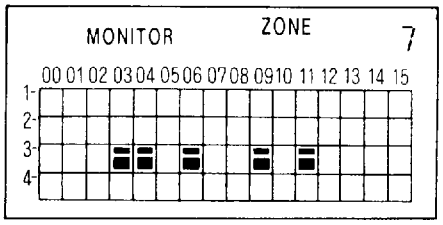
28°C is selected.



Unified operation is not set within the zone.

(When execute operation/stop by zone)

1 Press the ON BUTTON. The operation lamp lights up, and then the display " ■ " of the corresponding group appears.



0 Press the OFF BUTTON.

Unless operated from within one minute from when the display of zoning appears, the display will automatically revert back to the "group" display.

OPERATION MODE

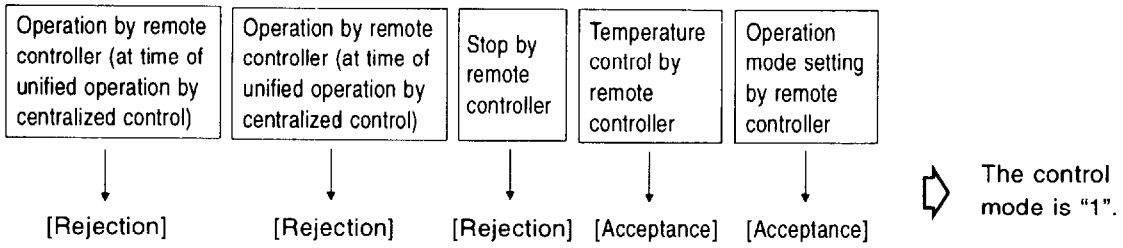
The following five operation control modes can be selected along with the temperature setting and operation mode by remote controller, for a total of twenty different modes. These twenty modes are set and displayed with control modes of 0 to 19. (For further details, see EXAMPLE OF OPERATION SCHEDULE on the next page.)

- ON/OFF control impossible by remote controller . . . . . Use this mode when operating and stopping from the central remote controller only. (ON/OFF control by the remote controller is disabled.)
- Only OFF control possible by remote controller . . . . . Use this mode when executing the operation only by the central remote controller, and executing only the stop by remote controller.
- Centralized . . . . . Use this mode when executing the operation only by the central remote controller, and executing operation/stop freely by remote controller during the preset hours.
- Individual . . . . . Use this mode when executing operation/stop both by central remote controller and remote controller.
- Timer operation possible by remote controller . . . . . Use this mode when executing operation/stop by remote controller during the preset hours, and not starting operation by the central remote controller at the programmed time of system start.

HOW TO SELECT THE CONTROL MODE

- Select whether to accept or to reject the operation from the remote controller regarding the operation, stop, temperature setting and operation mode setting, respectively, and determine the particular control mode from the rightmost column of the table below.

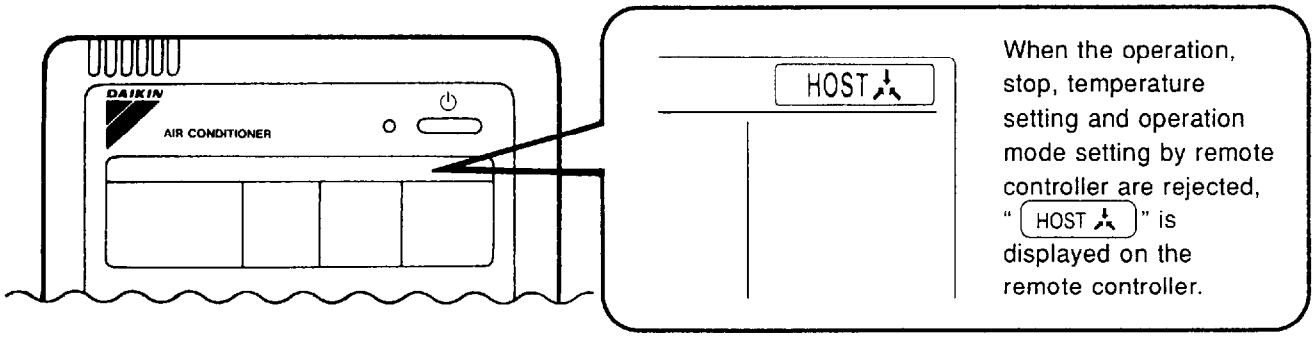
Example



Operation mode	Control by remote controller					Control mode
	Operation		Stop	Temperature control	Operation mode setting	
	Unified operation, individual operation by central remote controller, or operation controlled by timer	Unified stop, individual stop by central remote controller, or timer stop				
ON/OFF control impossible by remote controller	Rejection (Example)	Rejection (Example)	Rejection (Example)	Rejection	Acceptance	0
					Rejection	10
				Acceptance (Example)	Acceptance (Example)	1 (Example)
					Rejection	11
Only OFF control possible by remote controller			Acceptance	Rejection	Acceptance	2
					Rejection	12
				Acceptance	Acceptance	3
					Rejection	13

Operation mode	Control by remote controller					Control mode
	Operation		Stop	Temperature control	Operation mode setting	
	Unified operation, individual operation by central remote controller, or operation controlled by timer	Unified stop, individual stop by central remote controller, or timer stop				
Centralized	Acceptance	Rejection (Example)	Acceptance	Rejection	Acceptance	4
					Rejection	14
				Acceptance	Acceptance	5
					Rejection	15
Individual		Acceptance		Rejection	Acceptance	6
					Rejection	16
				Acceptance	Acceptance	7
					Rejection	17
Timer operation possible by remote controller	Acceptance (During timer at ON position only)	Rejection (During timer at OFF position)		Rejection	Acceptance	8
					Rejection	18
				Acceptance	Acceptance	9
					Rejection	19

Note) Do not select the timer operation possible without the remote controller. In this case, timer operation is disabled.



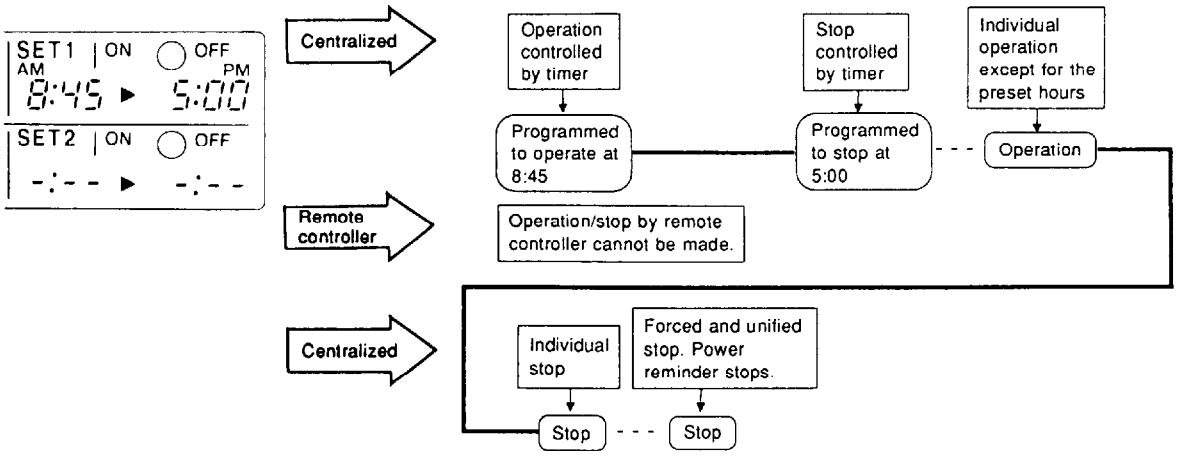
When the operation, stop, temperature setting and operation mode setting by remote controller are rejected, " HOST " is displayed on the remote controller.

EXAMPLE OF OPERATION SCHEDULE

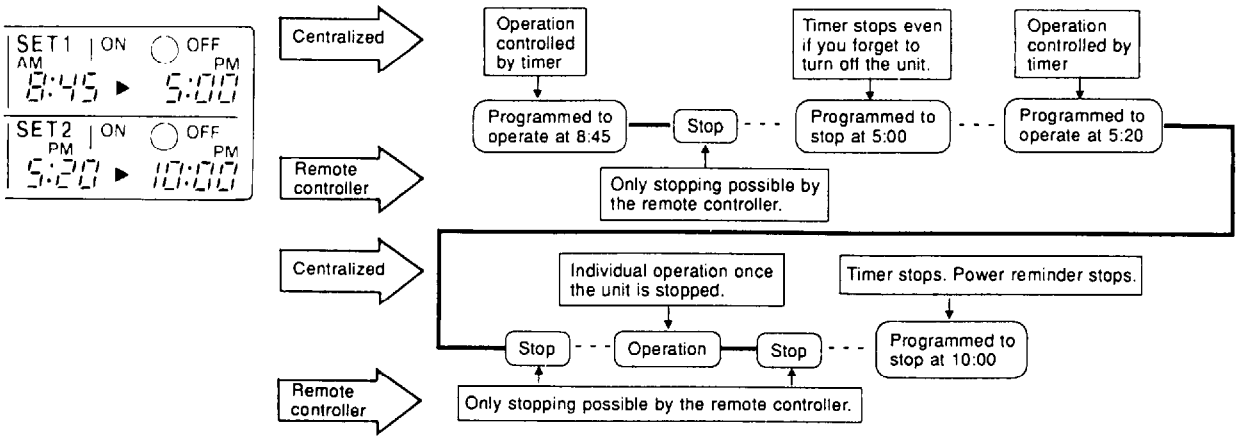
Operation schedule is possible only in conjunction with the schedule timer (optional accessory).

Liquid crystal display of schedule timer

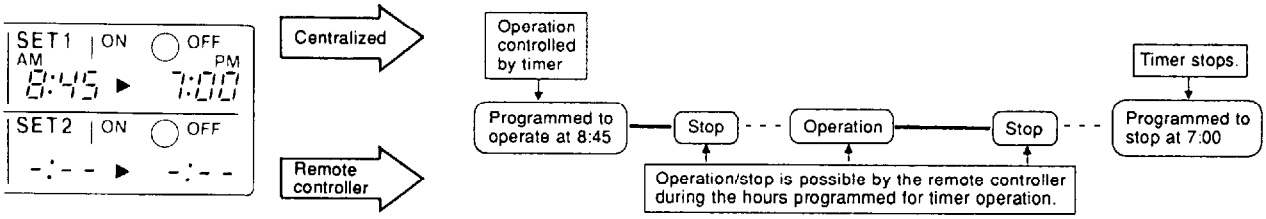
ON/OFF control impossible by remote controller



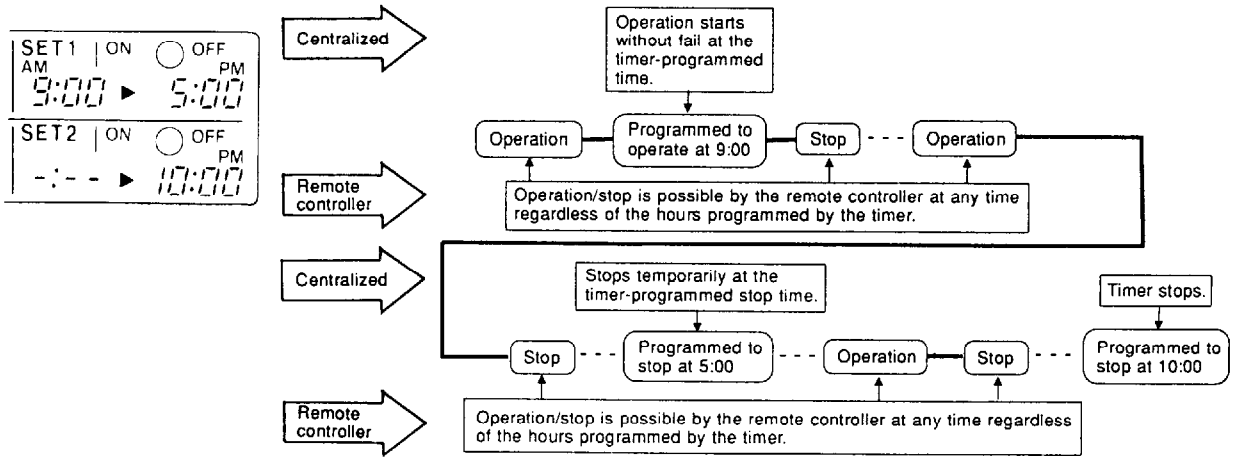
Only OFF control possible by remote controller



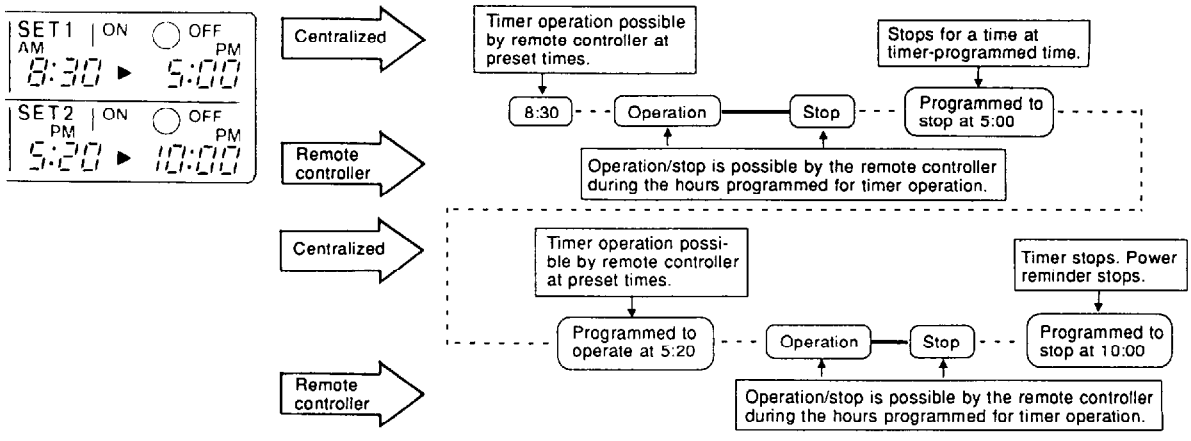
Centralized



Individual



Timer operation possible by remote controller



Air conditioner now operating.
Air conditioner now stopping.
Command by central remote controller
Command by remote controller

SETTING OPERATION MODE (Fig. 5)

- **The Zone consists of the following two cases.**

A. Zone without display "[ ]"

The group with master remote controller setting exists in this zone.

Setting the master remote controller enables cool/heat selection.

Operations other than cool/heat operations can also be set for some operations. For further details, see the list on the right.

B. Zone with display "[ ]"

No group with master remote controller setting exists in this zone.

The cool/heat selection is not available because the master remote controller has not been set.

Some operations other than cool/heat operations can be set. For further details, see the list in the right.

See page 164 if the display "[ ]" is flashing.

1 Press the OPERATION MODE SELECTOR BUTTON. Each time you press this button, the display rotates as shown on the right list.

NOTES

- During cool/heat operation, this central remote controller enables FAN operation for each zone even without setting the master remote controller. Meanwhile, ventilation, ventilation/cleaning, etc. are available, if HRV etc. are connected with this unit in the zone. See the operation manual provided with the each unit.
- When the indoor unit is in heat operation, change the setting to FAN operation through the central remote controller; then, you can switch the fan speed to the extremely low fan speed. Warm air may blow if any other indoor unit belonging to the same system is in heat operation.
- The indoor fan stops during defrost/hot start.
- DRY cannot be set from the central remote controller.

- **List of setting operation**

Display	A: Zones not displayed	
	Setting	Contents of setting
	×	
	○	To be set by zone
	○ ✻1	To be set by zone
	○	To be set by zone
	○	To be set by zone
	○ ✻1	To be set by zone
	○ ✻1	To be set by zone
— —	○	Select this display if you don't wish to set by zone.

Display	B: Zones displayed	
	Setting	Contents of setting
	○	✻2
	○	To be set by zone
	×	
	×	
	×	
	○ ✻1	To be set by zone
	○ ✻1	
— —	○	Select this display if you don't wish to set by zone.

Note) In the above list, " ○ " refers to the acceptable setting, while " × " refers to the not acceptable setting.
In the meanwhile, ✻1 and ✻2 refer to the followings.
✻1: Setting may not be acceptable depending on the type of indoor unit with which this unit is connected.

÷2: The group on FAN operation in the zone performs the temperature control operation (cool/heat) under the outdoor refrigerant system.

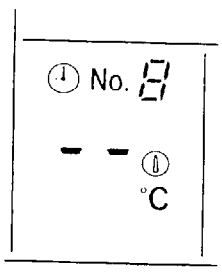
TEMPERATURE SETTING (Fig. 6)

(1) Press the TEMPERATURE SETTING BUTTON.
Each time you press the " ▲ ", the temperature rises by 1°C.
Each time you press the " ▼ ", the temperature falls by 1°C.
If you don't wish to set the temperature in a unified manner in the zone, set the temperature to " – – ".

NOTES

- The setting temperature refers to that of the temperature sensing part. (It may differ from the room temperature.)
- The proper setting temperature is 26 – 28° C during cooling operation, and 18 – 23° C during heating operation.
- The setting temperature is not displayed in the FAN mode and Ventilation/Cleaning mode. The set temperature is not displayed either if HRV etc. form a zone without an air conditioner.

If you wish to set the temperature to " – – "



(Example)
In case where the range of temperature to be set is 16 – 32°C
Press the " ▼ " when the display shows 16°C. The display " – – " appears.
Press the " ▲ " when the display shows 32°C. The display " – – " appears.
Set the temperature at the point 1°C higher than the upper limit and 1°C lower than the lower limit of the range subject to setting, respectively.

GROUP MONITORING (Fig. 7)

Utilize the group monitor function in each of the following cases:

1. Check the malfunction code. (See the next page.)
2. Check the group that requires cleaning of the air filter and air cleaner element. (See page 168.)
3. Change the setting of the master remote controller. (See page 167.)
4. Check the group(s) sharing the same outdoor unit. Or, check the particular group(s) with the master remote controller setting. (See page 168.)
5. Check the conditions of other individual groups.

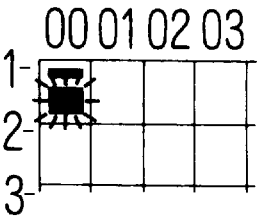
(1) Press the ZONE/GROUP CHANGEOVER BUTTON on the display of zoning, and the display "group" appears.

Unless operated from within one minute from when the display of zoning appears, the display will automatically revert back to the "group" display.

(2) Press the ADVANCE/ BACKWARD BUTTON to set the group No. Then, operation monitor display " ▬ " of group No. lights up in the displayed zone; then, the state of the above group(s) is displayed in the liquid crystal display.

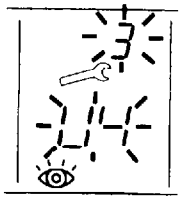
ERROR DIAGNOSING FUNCTION (Fig. 8)

This central remote controller is provided with a diagnosing function, for when an indoor unit stops due to malfunction. In case of actuation of a safety device, disconnection in transmission wiring for control or failure of some parts, the operation lamp, inspection display and unit No. start to flash; then, the malfunction code is displayed. Check the contents of the display, and contact your DAIKIN dealer because the above signs can give you the idea on the trouble area.



The display "■" flashes under the group No. where the indoor unit that has stopped due to malfunction.

① Press the RETURN/ADVANCE BUTTON to call up the group that has stopped due to malfunction.



The unit No. that has stopped due to malfunction and the malfunction code flash are displayed. The display of control mode is replaced by that of the unit No.

SETTING MASTER REMOTE CONTROLLER (Fig. 9)

You must set the master remote controller of the operation mode for one of the indoor units, if two or more such indoor units with the remote controller are connected with the outdoor unit where the operation modes such as cool/heat operation and FAN operation can be set by remote controller and central remote controller.

① • Check the particular group with the master remote controller setting for the refrigerant system you wish to reset. (See the right.)

• Call up the group without the display "[ ]" (See page 168.) Hold the OPERATION MODE SELECTOR BUTTON down for about four seconds while the above group is being called up. The display "[ ]" flashes on the liquid crystal display of the remote controller for all the groups sharing the same outdoor unit or BS unit.

When you turn on the power switch for the first time, the display "[ ]" flashes.

② Call up the desired group to set the master remote controller, and press the OPERATION MODE SELECTOR BUTTON. The master remote controller is set for this group, and the display "[ ]" goes out. The display "[ ]" appears for the other groups.

Setting is finished now.

• In case of operation switch

Call up the zone including the group with the setting of master remote controller. (Zone without the display "[ ]")

Press the OPERATION MODE SELECTOR BUTTON several times, and switch to the desired operation mode.

Each time you press it, the display is switched to "" "" "" and "– –" in sequence.

NOTES

- Press the ZONE/GROUP CHANGEOVER BUTTON, and call up the display of zoning.
- However, the displays "A" "" and "" may appear in some zones, depending on the type of indoor unit with which they are connected.

FUNCTION OF REFRIGERANT SYSTEM DISPLAY (Fig. 10)

The following information becomes available by utilizing this function.

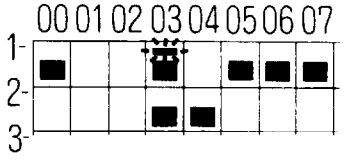
- Indoor group connected with the same outdoor unit
- Indoor group with the master remote controller setting of the given refrigerant system

1 Press the ZONE/GROUP CHANGEOVER BUTTON, and call up the display "group" if the display of zoning appears.

Unless operated from within one minute from when the display of zoning appears, the display will automatically revert back to the "group" display.

2 Press the BUTTON FOR REFRIGERANT SYSTEM DISPLAY. The display "REF. CIRCUIT" appears.

3 Press the ADVANCE/ BACKWARD BUTTON to call up the group of which you wish to check the refrigerant system.



The display "■" of all the groups sharing the same refrigerant system as the group on display flashes. Then, the display "■" of the particular group among them with the master remote controller setting flashes. Repeat the procedure 3 if you wish to check other refrigerant systems as well.

The above example shows that the groups 1-00, 1-03, 1-05, 1-06, 1-07, 2-03 and 2-04 share the same refrigerant system, and also that the master remote controller is provided with group 1-03.

4 Press the BUTTON FOR REFRIGERANT SYSTEM DISPLAY again. The display "REF. CIRCUIT" goes out. The refrigerant system display is finished now.

NOTES

- Unless operated from within one minute from when the refrigerant system display, the display will automatically revert back to the "group" display.
- This function may not be available depending on the type of outdoor unit with which the unit is connected. In this case, the display "REF. CIRCUIT" flashes.

DISPLAY OF TIME TO CLEAN (Fig. 11)

This central remote controller displays the time to clean the air filter or air cleaner element for each group or any given group by utilizing two types of signs. The display "🧽/🔧" tells the time to clean the air filter or the air cleaner element of some group.

1 Press the ADVANCE/ BACKWARD BUTTON, and search the groups displaying "🧽" or "🔧" (The group may be plural.)

Clean or change the air filter or air cleaner element.
For further details, see the operation manual attached to each indoor unit. (Clean or change the air filter or air cleaner element of all the groups displaying "🧽" or "🔧".)

2 Press the FILTER SIGN RESET BUTTON, and the display "🧽/🔧" disappears. (Including all the groups where the air filter has been cleaned.)

NOTE

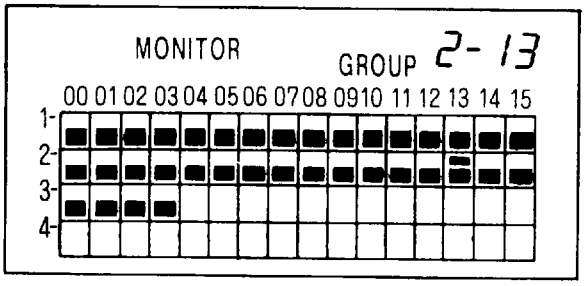
Be sure to check the display "🧽/🔧" has disappeared at this point. The appearance of the above display is a sign that the air filter or air cleaner element of some group still needs cleaning.

UNIFIED OPERATION (Fig. 12)

Use this function when executing operation and stop of all the connected indoor units.

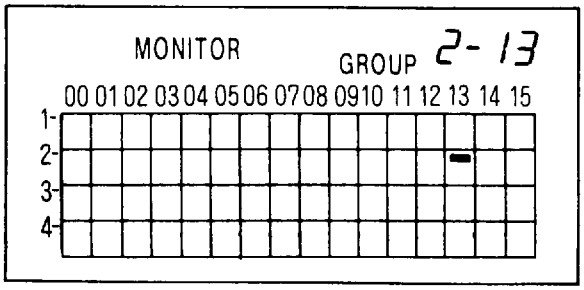
(A) Unified operation

Press the UNIFIED OPERATION BUTTON. All the displays "■" of the group No. in operation light up at the same time, and all the groups start to operate at the same time.



(B) Unified stop

Press the UNIFIED STOP BUTTON. The lights of every display "■" of group No. in operation go out at the same time; then, the lights of all the groups stop at the same time.



- When using the central remote controller in conjunction with other optional controllers for centralized control, the OPERATION LAMP on controllers which are not being used for operation may delay a few minutes before lighting or going out.

There is nothing wrong with the equipment. The delay is due to signal exchange.