





























## 2. Operating Instructions

### 2-1 The Feature of Key in remote control

NO	NAMED OF KEY	FUNCTION OF KEY
1		On/Off & Timer Set/Cancel button. Press the  button to stop and run the air conditioner or On/Off timer set up.
2		Mode selection button. Each time you press this button, Mode is changed in the following order. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  →             →             →             →             </div> <div style="text-align: center;">  </div> </div>
3	 (UP)	Temperature adjustment button(UP). To increase the temperature by the pressing the temperature button.
	 (DOWN)	Temperature adjustment button(DOWN). To decrease the temperature by the pressing the temperature button.
4		Turbo/Sleep mode selection button. Press the  button one or more times until <b>TURBO</b> appears. The air conditioner cools or heats the room as quickly as possible. After 30minutes, the air conditioner is reset automatically to the previous mode.
		Turbo/Sleep mode selection button. Press the  button one or more times until  appears. The sleep timer can be used when you are cooling or heating your room to switch the air conditioner off automatically after a period of six hours.
5		Fan speed adjustment button. Each time you press this button, FAN SPEED is changed in the following order. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  →             →             →             </div> <div style="text-align: center;">  </div> </div>
6		Swing button. It adjusts the airflow to upward and downward.
7		On Timer button. The On Timer enables you to <b>switch on</b> the air conditioner automatically after a given period of time that is from 30 minutes to 24 hours. To cancel, press the  (Set/Cancel) button.
8		Off Timer button. The Off Timer enables you to <b>switch off</b> the air conditioner automatically after a given period of time that is from 30 minutes to 24 hours. To cancel, press the  (Set/Cancel) button.
9	Energy Saving 	Energy Saving button. If you wish to save energy when using your air conditioner, select the Energy saving mode with the  button.

## 2-1-1 Name & Function of Key in remote control

1. **AUTO MODE** : In this mode, operation mode(COOL, HEAT) is selected automatically by the room temperature of initial operation.

Room Temp	Operation Type
$T_r \geq 21^\circ\text{C} + \Delta T$	Cool Operation (Set Temp: $24^\circ\text{C} + \Delta T$ )
$21^\circ\text{C} + \Delta T > T_r$	Heat Operation (Set Temp: $22^\circ\text{C} + \Delta T$ )

$\Delta T = -1^\circ\text{C}, -2^\circ\text{C}, 0^\circ\text{C}, +1^\circ\text{C}, +2^\circ\text{C}$

$\Delta T$  is controlled by setting temperature up/down key of remote control

2. **COOL MODE** : The unit operates according to the difference between the setting and room temperature. ( $18^\circ\text{C} \sim 30^\circ\text{C}$ )
3. **HEAT MODE** : The unit operates according to the difference between the setting and room temperature. ( $16^\circ\text{C} \sim 30^\circ\text{C}$ )
  - \*Prevention against cold wind : In order to prevent the cool air from flowing out at the heat mode, the indoor fan does not operate or operates very slowly in the following cases. At this time, the indoor heat exchanger will be preheating.
    - For 3~5 minutes after the initial operation
    - For deicing operation
    - The operation of an indoor fan in accordance with the temperature of an indoor heat exchanger

The temperature of indoor heat exchanger	Indoor fan speed
below $28^\circ\text{C}$	off
$28^\circ\text{C}$ ~below $34^\circ\text{C}$	LL Speed
$34^\circ\text{C}$ ~below $40^\circ\text{C}$	L Speed
above $40^\circ\text{C}$	Setting Speed

\*High temperature release function : It is a function to detect an outdoor overload by the sensor of an indoor heat exchanger and to turn the outdoor fan or the compressor ON/OFF for safety.

\*Deice : Deicing operation is controlled by indoor unit's heat exchanger temperature and accumulating time of compressor's operation.

Deice ends by sensing of the processing time by deice condition.

4. **DRY MODE** : Has 3 states, each determined by room temperature. The unit operates in DRY mode.
  - \*Compressor ON/OFF Time is controlled compulsorily (can not set up the fan speed, always breeze).
  - \*Protective function : Low temperature release. (Prevention against freeze)
5. **TURBO MODE** : This mode is available in AUTO, COOL, HEAT, DRY, FAN MODE. When this button is pressed at first, the air conditioner is operated "powerful" state for 30 minutes regardless of the set temperature, room temperature. When this button is pressed again, or when the operating time is 30 minutes, turbo operation mode is canceled and returned to the previous mode.
  - \*But, if you press the TURBO button in DRY or FAN mode that is changed with AUTO mode automatically.
6. **SLEEP MODE** : Sleep mode is available only in COOL or HEAT mode. The operation will stop after 6 hours.
  - \*In COOL mode : The setting temperature is automatically raised by  $1^\circ\text{C}$  each 1hour. When the temperature has been raised by total of  $2^\circ\text{C}$ , that temperature is maintained.
  - \*In HEAT mode : The setting temperature is automatically dropped by  $1^\circ\text{C}$  each 1hour. When the temperature has been dropped by total of  $2^\circ\text{C}$ , that temperature is maintained.




7. **FAN SPEED** : Manual (3 step), Auto (4 step)  
 Fan speed automatically varies depending on both the difference between setting and the room temperature.

8. **COMPULSORY OPERATION** :  
 For operating the air conditioner without the remote control.

\*The air conditioner starts up in the most suitable mode for the room temperature:

Room Temperature	Operating Mode	Temperature Setting
Less than 21°C	Heat	22°C approx.
21°C or above	Cool	24°C approx.

9. **SWING** : BLADE-H is rotated vertically by the stepping motor.





\*Swing Set : Press the  button under the remote control is displayed on LCD the  and the blades move up and down. If the one more time press the  button, blades location is stop.

10. **SETTING THE ON/OFF TIMER** . :

\*ON TIMER : The On Timer enables you to switch on the air conditioner automatically after a given period of time. You can set the period of time from 30 minutes to 24 hours.

\*OFF TIMER : The Off Timer enables you to switch off the air conditioner automatically after a given period of time. You can set the period of time from 30 minutes to 24 hours.

11. SELF DIAGNOSIS

Description	LAMP of DISPLAY Monitor			
	TURBO	OPERATION	TIMER	ENERGY SAVING
				
Indoor unit room temperature sensor error(open or short)	○	○	◐	○
Indoor unit heat exchanger temperature sensor error(open or short)	○	◐	◐	○
Indoor fan motor malfunction	○	○	○	◐
EEPROM error	○	◐	◐	◐
Option error(option wasn't set up or option data error)	◐	◐	◐	◐

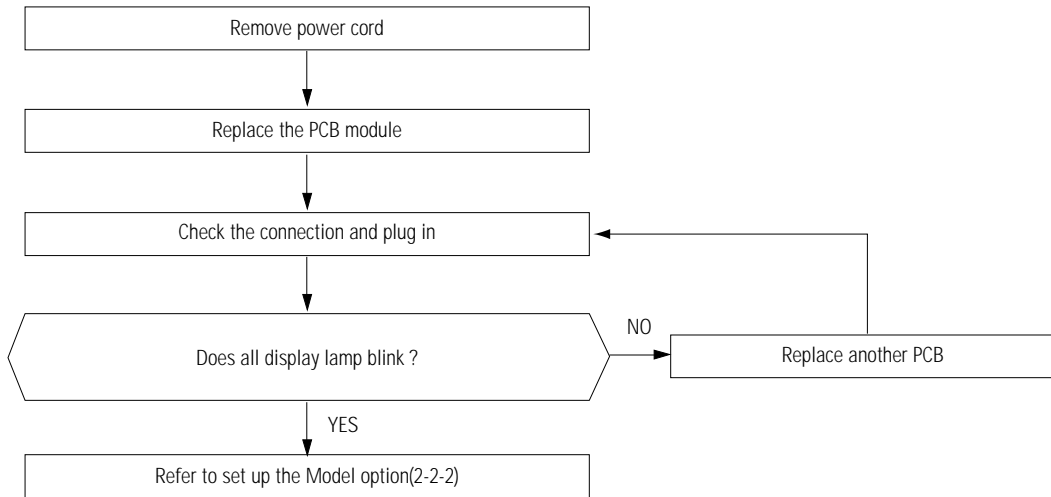
○ : Lamp off   ◐ : Lamp flickering

12. **BUZZER SOUND** : Whenever the On/Off button is pressed or whenever change occurs to the condition which is set up or select, the compulsory operation mode, buzzer is sounded "beep".

## 2-2 Replace PCB Model option

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### 2-2-1 Replace PCB model option



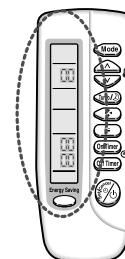
## 2-2-2 Set up the Model option

### The Method for Setting up the model option with remocon

- **It is necessary to set up option code after replacing the main-PCB as a service parts.**  
Make sure that you can set up the option of code the remote controller after you replace the main PBA otherwise, the unit won't be working properly and all LED lamps on display will be flickering.

#### Step 1 : Preparing the remocon to main PCB option set

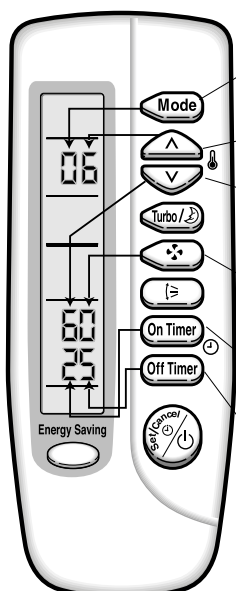
- 1<sup>st</sup> Remove the battery from the remocon.
- 2<sup>nd</sup> Press the temperature raise/down button simultaneously and insert the battery again.
- 3<sup>rd</sup> Make sure the remocon display shown as 00 00 00.



#### Step 2 : Second stage preparation of the remocon option set.

※ **Note** ; In case the wrong letter has been selected, continue to press the button until the correct letter appears.

- 1<sup>st</sup> If the first stage number "0" appears on the display, proceed to the second stage.
- 2<sup>nd</sup> Every time the ① and ⑦ button, "0" and "1" each continue to appear.
- 3<sup>rd</sup> Whenever pressing the ②, ③, ④, ⑤, ⑥, ⑧, ⑨, ⑩, ⑪, ⑫ button, the number increase from 0~9(0123456789) and A, b, C, d, E, F each time.



① If the first number is 0, it is correct otherwise press **Mode** until 0 appear.

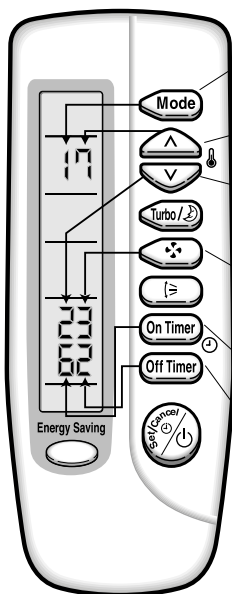
② When pressing the **Up/Down** button 0 ~ F appear on the display, select one of them.

③ When pressing the **Turbo/2** button 0 ~ F appear on the display, select one of them.

④ When pressing the **On Timer** button 0 ~ F appear on the display, select one of them.

⑤ When pressing the **Off Timer** button 0 ~ F appear on the display, select one of them.

⑥ When pressing the **Energy Saving** button 0 ~ F appear on the display, select one of them.



- ① If the first number is 1, it is correct otherwise press **Mode** until 1 appear.
- ② When pressing the **Up** button 0 ~ F appear on the display, select one of them.
- ③ When pressing the **Down** button 0 ~ F appear on the display, select one of them.
- ④ When pressing the **On Timer** button 0 ~ F appear on the display, select one of them.
- ⑤ When pressing the **On Timer** button 0 ~ F appear on the display, select one of them.
- ⑥ When pressing the **Off Timer** button 0 ~ F appear on the display, select one of them.

**Step 3 : Reconfirming option set after completion**

**(in case of ex. 066025-172362)**

After pressing **Mode** selector for the 0 mode, the display shown as 06 60 25 .  
 After pressing **Mode** selector for the 1 mode, the display shown as 17 23 62 .

**Step 4 : Pressing the ON/OFF button ( )**

When pressing the operation ON/OFF key with the direction of remote controller for unit, the sound “Ding” or “Diriring” is heard and the OPERATION LED lamp on the left side is flickering at the same time, then the input of option is completed. (If the diriring sound isn’t heard, try again pressing the ON/OFF button.)

**Step 5 : Unit operation test-run**

- First,** Remove the battery from the remote controller.
- Second,** Re-insert the battery into the remote controller.
- Third,** Press ON/OFF key with the direction of remote controller for set.

**• Error Mode**

- 1<sup>st</sup> If all lamps of indoor unit are flickering, Plug out and plug in again and pressing ON/OFF key to retry.
- 2<sup>nd</sup> If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for it's model.

## ■ OPTION ITEMS

REMOCON MODEL	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
AQ12SGGE SH12ZSG	0	6	6	0	2	5	1	7	2	3	6	2
AQ12SBGE	0	6	7	0	6	5	1	7	2	3	6	2
AQ09S8GE SH09ZS8	0	2	7	0	6	4	1	7	2	2	1	d
AQ09SBGE	0	2	6	0	6	5	1	7	2	2	2	E
AQ07S8GE SH07ZS8	0	2	6	0	6	4	1	7	2	0	F	b
AQ07SBGE	0	2	6	0	6	5	1	7	2	0	F	b

# MEMO