



# OPERATING MANUAL

**ROOM AIR CONDITIONER**

**WALL MOUNTED TYPE**

Indoor Unit

**ASU18R**

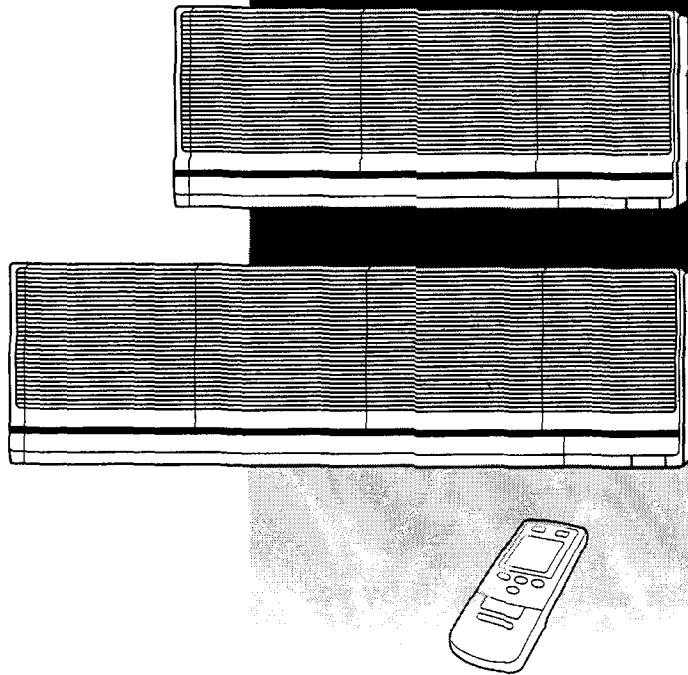
**ASU24R**

Outdoor Unit

**AOU18R**

**AOU24R**

***HEAT & COOL MODEL  
(REVERSE CYCLE)***



KEEP THIS OPERATION MANUAL  
FOR FUTURE REFERENCE



FUJITSU GENERAL LIMITED

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## PRECAUTIONS

- Before using the appliance, read these "PRECAUTIONS" thoroughly and operate in the correct way.
- The instructions in this section all relate to safety; be sure to maintain safe operating conditions.
- "CAUTION" and "WARNING" have the following meanings in these instructions:

|  |   |
|--|---|
|  <b>WARNING</b> | This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.                     |
|  <b>CAUTION</b> | This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property. |

### Safety Symbols



△ The triangular symbol indicates WARNING and CAUTION items.



⊘ This symbol indicates prohibited operations. The prohibited action is indicated both within the symbol, and in nearby explanations.



● This symbol indicates instructions regarding operations which are to be performed by the user.



### DANGER

**Do not attempt to install this air conditioner by yourself.**

- Consult authorized service personnel for all installations.



**Consult authorized service personnel for any repairs.**

- Do not attempt to remove parts, or service the unit yourself, since you may be exposed to dangerous electrical shock. This appliance contains no user-serviceable parts.



**When moving, consult authorized service personnel for disconnection and installation of the unit.**



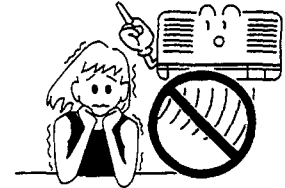
# PRECAUTIONS



## DANGER

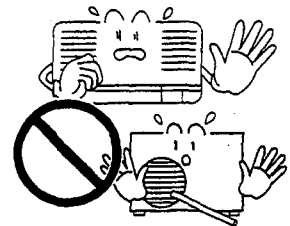
**Do not stay in direct cooling airflow for long periods.**

- Excessive direct exposure to chilled air could be bad for your health.
- Be especially careful when going to bed, and in rooms where infants, aged, or sick people are staying.



**Do not insert fingers or objects into the outlet port or intake grilles.**

- A fan operates at high speed inside the unit, and personal injury could result.
- Be particularly careful regarding small children.



**In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel.**

- *Continuing to operate the unit under such conditions could lead to hazard of fire or electrical shock.*



# PRECAUTIONS



## CAUTION

### Provide occasional ventilation during use.

- Be careful to provide adequate ventilation particularly when using the unit in combination with other heating apparatus.
- Insufficient ventilation could lead to oxygen starvation.

### Do not direct air flow at fireplaces or heating apparatuses.

- Direct air blowing on fires could result in improper combustion or fire.

### Do not climb on, or place objects on, the air conditioner.

- Personal injury could result from a falling object, or if the unit tips over.
- Do not hang on or cover the air conditioner.

### Do not set flower vases or water containers on top of air conditioners.

- Water leaking inside the unit could damage electrical insulation, leading to danger of electrical shock.

### Do not expose the air conditioner directly to water.

- Electrical insulation could be damaged, resulting in electrical shock.

### Do not operate the air conditioner with wet hands.

- Electrical shock could result.

### Turn off power source when not using the unit for extended periods.

### Always turn off the electrical breaker whenever cleaning the air conditioner or changing the air filter.

- A fan operates at high speed inside the unit, and personal injury could result.

### Take precautions to prevent infants from accidentally swallowing batteries.

- A battery can be very harmful if swallowed. If an infant accidentally swallows a battery, make the infant eject it, and consult your physician.

### Check the condition of the installation for damage.

- After lengthy use, arrange for visit by authorized service personnel to check installation condition.

### Do not place animals or plants in the direct path of the air flow.

- Lengthy exposure to direct Heating or Cooling airflow could have adverse influence on plants or animals.



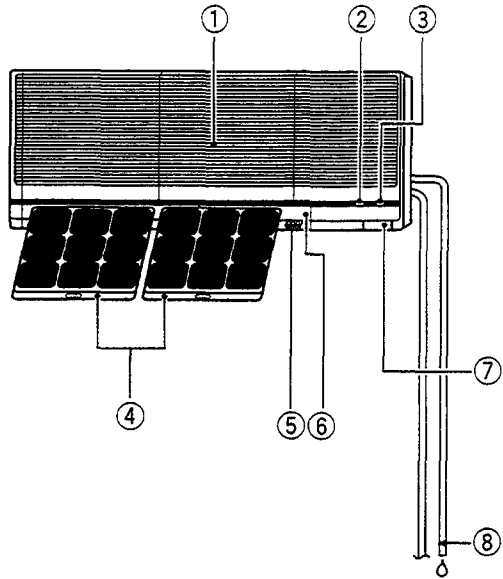
## CAUTION

|  |   |
|--|---|
| <p><b>Do not drink the water drained from the air conditioner.</b></p>   | <p><b>Do not use in applications involving the storage of foods, plants or animals, precision equipment, or art works.</b></p> <ul style="list-style-type: none"><li>● The quality of the stored items may deteriorate.</li></ul>   |
| <p><b>Take out the batteries from the remote control unit when not using for a long time.</b></p> <ul style="list-style-type: none"><li>● Take out the batteries to prevent troubles caused by battery liquid leakage.</li><li>● If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately wash with copious amounts of water, and consult your physician.</li></ul> | <p><b>Connection valves become hot during Heating; handle with care.</b></p> <ul style="list-style-type: none"><li>● Touching the connection valves could result in burns.</li></ul>  |
| <p><b>Always operate with the air filter installed.</b></p> <ul style="list-style-type: none"><li>● Operating the unit without the air filter could cause excessive dirt to collect on internal parts, leading to malfunction.</li></ul>   | <p><b>Do not touch the heat exchanger radiator fins.</b></p> <ul style="list-style-type: none"><li>● Personal injury could result.</li><li>● Be particularly careful when cleaning.</li><li>● Bending or damage to the fins will affect the efficiency of the unit.</li></ul> |
| <p><b>Install the indoor unit and remote control unit at least one meter from any television sets or radio.</b></p> <ul style="list-style-type: none"><li>● Signal radiation could be induced into the system to give erroneous operation.</li></ul>   | <p><b>Do not block or cover the intake grille and outlet port.</b></p> <ul style="list-style-type: none"><li>● Obstructing the ports will reduce operating efficiency, leading to improper operation and possible damage.</li></ul>   |
| <p><b>When installing the indoor unit and outdoor unit, take precautions to prevent access by infants.</b></p> <ul style="list-style-type: none"><li>● Unexpected accidents could occur.</li></ul>   | <p><b>Avoid installing the air conditioner near a fireplace or other heating apparatus.</b></p> <ul style="list-style-type: none"><li>● Exposure to excessive heat could result in deformation of the outer case.</li></ul>   |
| <p><b>Do not use inflammable gases near the air conditioner.</b></p>   |   |

# NAME AND FUNCTION OF PARTS

For details of operation, see the pages indicated by the  mark.

## Indoor Unit



**① Air Intake Grille**

Air is taken in here.

**② Indicator Lamps (  P. 7)**

These indicator lamps show the current operating status.

**③ Remote Control Signal Receiver (  P. 11)**

Signals from the remote control unit are received here.

**④ Air Filter (  P. 22)**

Removes all dirt and dust from the air.

**⑤ Automatic Louvers (  P. 17)**

Disperses the air to left and right automatically.

**⑥ Flow Control Panel (  P. 16)**

Adjusts airflow in the vertical direction.

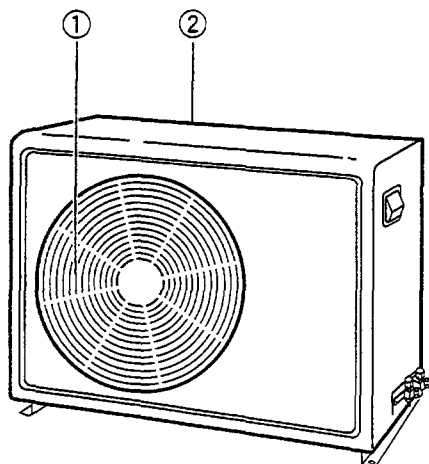
**⑦ Operating Control Panel (  P. 7)**

Operating control panel is located inside the door.

**⑧ Drain Hose**

Moisture condensed from the air during Cooling and Drying operations is drained here.

## Outdoor Unit



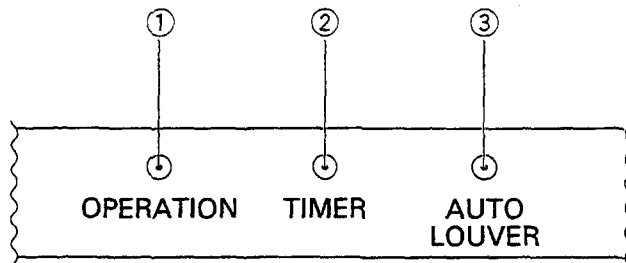
**① Air outlet**

Warm or cool air is blown out.

**② Air inlet**

(Rear and side panels)

## Indicator Lamps



### ① OPERATION Indicator (Red)

- Lights when unit is operating.
- Flashes quickly for about one second when a signal is received from the remote control unit.

### ② TIMER Indicator (Green)

Lights during timer operation (☞ P. 18 to 21).

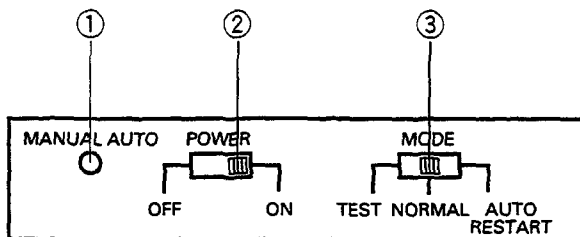
### ③ AUTO LOUVER Indicator (Orange)

Lights during use of AUTO LOUVER (☞ P. 17).

### OPERATION and TIMER Indicator Lamps:

- When the OPERATION indicator and TIMER indicator flash simultaneously, the MODE switch (☞ P. 7) is in the TEST position.
- When the MODE switch is in the NORMAL position and the OPERATION indicator and TIMER indicator flash alternately, it indicates that there has been a temporary interruption in the power supply.
- If the TIMER indicator flashes when the MODE switch is set to AUTO RESTART and the timer is operating, it indicates that a fault has occurred with the timer setting.

## Operating Control Panel



### WARNING

The OFF position does not disconnect the power. Use the main power switch to turn off power completely.

- Operated by settings before the power failure.
- If a power failure occurs during timer operation, the timer will be reset and the unit will begin (or stop) operation at the new time setting. In the event that this kind of timer fault occurs, the TIMER indicator will flash.

### ① MANUAL AUTO button

This button can be used for temporary operation in the AUTOCHANGEOVER mode in the event the remote control unit is unavailable.

#### Press the MANUAL AUTO button

- Fan speed will be set to "AUTO" and the thermostat will be set to about 74°F.
- To stop operation, either press the MANUAL AUTO button once again, or set the power switch to OFF.

### ② POWER switch

**ON:** Set to this position when using the unit.  
**OFF:** Set to this position when not using the unit for an extended period of time.

### ③ MODE switch

#### AUTO RESTART:

Set to this position when the air conditioner power has been interrupted by a power failure. The air conditioner will then restart automatically in its previous mode when the power is restored.

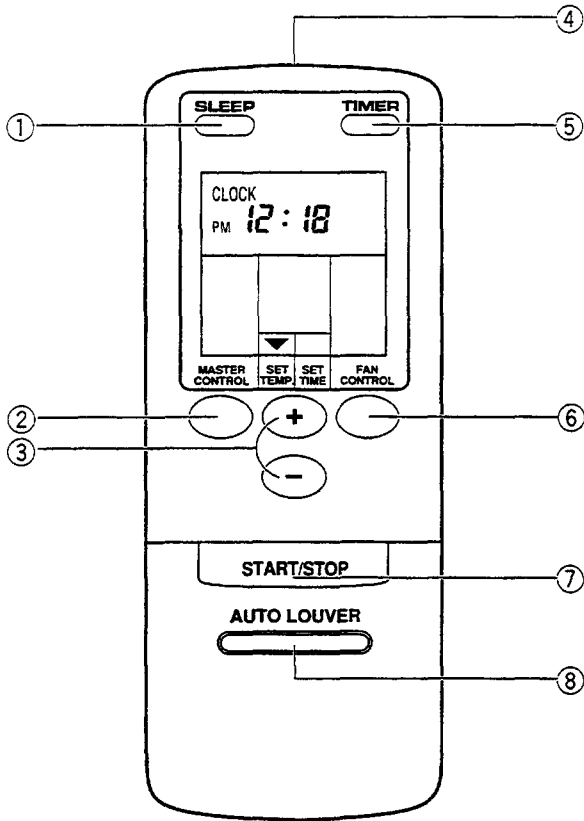
**NORMAL:** Set to this position during normal operation.

**TEST:** Set to this position when testing after installation. Do not normally leave in this position, however, since the room temperature adjustment function will not operate.



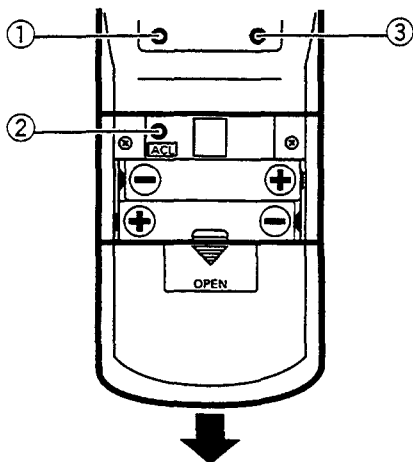
# NAME AND FUNCTION OF PARTS

## Remote Control Unit



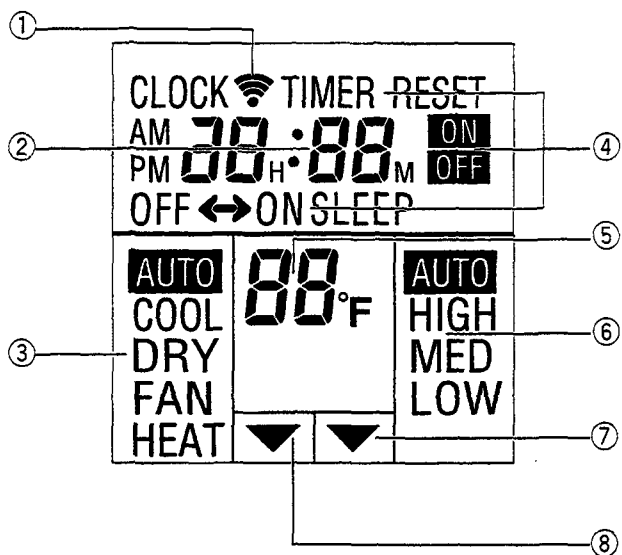
- ① **SLEEP button** (☞ P. 21)  
Press to select SLEEP timer.
- ② **MASTER CONTROL button**  
Press to select operating mode (AUTO, COOL, DRY, FAN, HEAT)
- ③ **SET TEMP./SET TIME buttons** (⊕/⊖)  
Press to set the unit's thermostat and clock.
- ④ **Signal Transmitter**  
Control signals are sent to the air conditioner from here.
- ⑤ **TIMER button** (☞ P. 18 to 21)  
Press to select the timer mode (OFF TIMER, ON TIMER, PROGRAM TIMER, RESET).
- ⑥ **FAN CONTROL button**  
Press to select fan speed. (AUTO, HIGH, MED, LOW)
- ⑦ **START/STOP button**  
Press to start and stop operation.
- ⑧ **AUTO LOUVER button** (☞ P. 17)  
When this button is pressed once, the louvers move continuously to direct air throughout the room to right and left. Press the button once again to stop the louver operation in their present position.

## Remote Control Unit (Rear Side)



- ① **TIME ADJUST button** (☞ P. 11)
- ② **ACL button (located inside battery compartment)** (☞ P. 10)  
This button is used when replacing batteries.
- ③ **TEST RUN button**  
This button is used when testing the air conditioner after installation. Do not use under normal conditions. (This button has the same function as the TEST position on the manual MODE switch.)

## Remote Control Unit Display



\* The accompanying illustration depicts the control display with all indicators lighted; in actual use, however, only those indicators currently required are displayed.

### ① Transmit Indicator

This indicator is displayed when a signal is sent to the air conditioner.

### ② Clock Display

- When CLOCK is displayed, the current time is shown in 12-hour format (AM/PM).
- When TIMER is displayed, the timer setting is shown in 12-hour format (AM/PM).
- When SLEEP timer has been selected, the display shows the remaining time until the unit turns off (0H:05M to 9H:55M).

### ③ Operation Mode Display

Displays the operation mode (HEAT, COOL, etc.).

### ④ Timer Mode Display

Displays the timer mode (OFF TIMER, ON TIMER, PROGRAM TIMER, SLEEP, RESET).

### ⑤ Set Temperature Display

Displays the thermostat setting.

### ⑥ Fan Speed Display

Displays the current fan speed.

### ⑦ Set Time Indicator

When this indicator is flashing, the  $\odot/\ominus$  buttons can be used to set the time (TIME set mode).

### ⑧ Set Temperature Indicator

When this indicator is flashing, the  $\odot/\ominus$  buttons can be used to set the thermostat (TEMPERATURE set mode).

- Signals will not be transmitted properly if a wall, curtain, or other object is between the air conditioner and the remote control unit.
- The air conditioner may fail to operate properly if strong direct light is allowed to strike the signal receiver. Use a curtain to shade strong sunlight from windows, and place strong lamps at a distance away from the signal receiver.
- If another electric appliance is operated by the remote control unit move the appliance away or consult with authorized service personnel.

- Do not place the remote control unit in locations where it may be subjected to heat from direct sunlight or from heating apparatus.
- Do not subject the remote control unit to strong impacts, and do not allow water or other liquids to splash on it.
- When the remote control unit is used in rooms furnished with instant-lighting type fluorescent lamps, the air conditioner may fail to receive control signals correctly. Consult with authorized service personnel when purchasing a new fluorescent lamp.

# PREPARATION

## Prepare the Remote Control Unit

Load batteries in the remote control unit and set the clock to the current time.

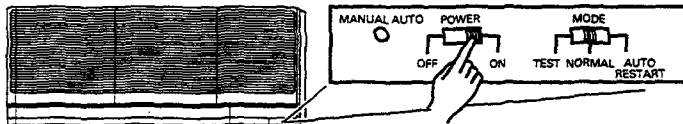
### Turn on the Power

- 1 Turn on the Power.



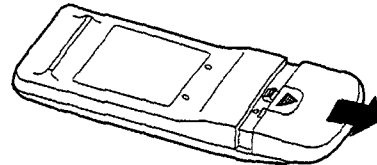
In the case of direct line connections, turn on the breaker.


- 2 Set the POWER switch to ON.



### Load Batteries (R03/LR03/AAA x 2)

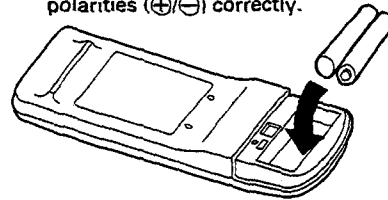
- 1 Press and slide the battery compartment lid on the reverse side to open it.



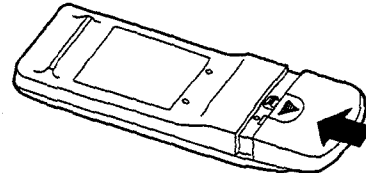
Slide in the direction of the arrow while pressing the  mark.

- 2 Insert batteries.

Be sure to align the battery polarities (+/-) correctly.



- 3 Close the battery compartment lid.



### CAUTION!

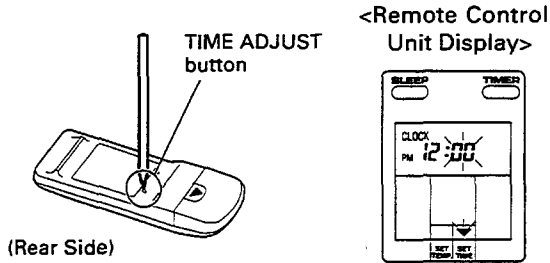
- Take precautions to prevent infants from accidentally swallowing batteries.
- When not using the remote control unit for an extended period, remove the batteries to avoid possible leakage and damage to the unit.
- \* If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately wash with copious amounts of water, and consult your physician.
- Dead batteries should be removed quickly and disposed of properly, either by placing in a public battery collection receptacle, or by returning to a properly equipped dealer.
- Do not attempt to recharge dry batteries.

### NOTE:

- Never mix new and used batteries, or batteries of different types.
- Batteries should last about one year under normal use. If the remote control unit's operating range becomes appreciably reduced, replace the batteries and press the ACL button with the tip of a ball-point pen or other small object.

## Set the Current Time

### 1 Press the TIME ADJUST button.



(Rear Side)  
Use the tip of a ball-point pen or other small object to press the button.

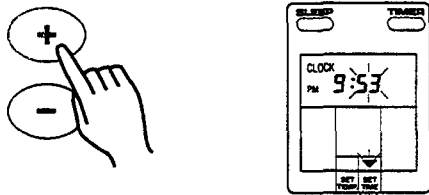
The time display and time set mark ▼ will flash.

### 2 Use the +/− TIME SET buttons to adjust the clock to the current time.

- ⊕ button: Press to advance the time.
- ⊖ button: Press to reverse the time.

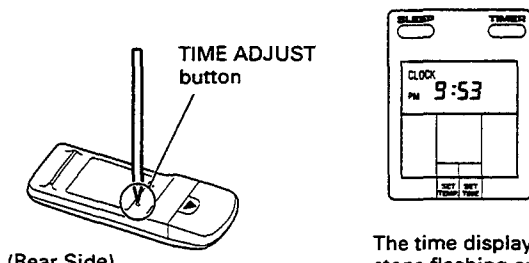
(Each time the buttons are pressed, the time will be advanced/reversed in one-minute increments; hold the buttons depressed to change the time quickly in ten-minute increments).

**Example:**  
When the clock is set to 9:53 P.M.



### 3 Press the TIME ADJUST button again.

This completes the time setting and starts the clock.

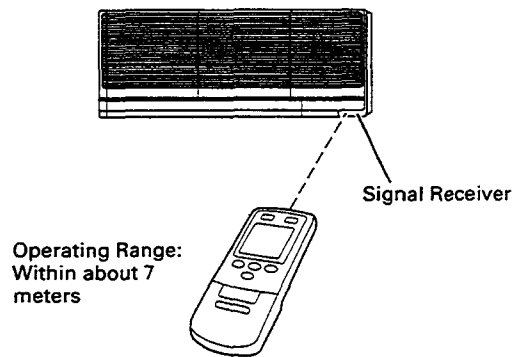


(Rear Side)

The time display stops flashing and lights steadily. The time set mark ▼ will disappear.

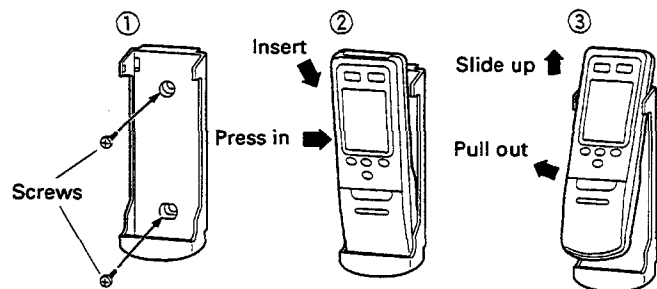
## To Use the Remote Control Unit

- The remote control unit must be pointed at signal receiver to operate correctly.
- When a signal is properly received by the air conditioner, a beeping sound will be heard.
- If no beep is heard, press the remote control unit button again.



## Remote Control Unit Holder

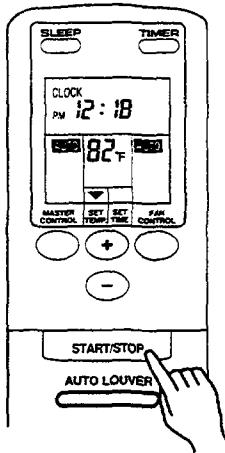
- This holder can be mounted on a wall or in a convenient position to allow operation.
- If the holder is installed in a location allowing signals to be received by the air conditioner, the remote control unit can be used without removing it from the holder.



- ① Mount the Holder.
- ② Set the remote control unit.
- ③ To remove the remote control unit (for hand use).

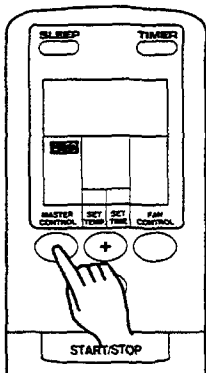
# AUTO CHANGEOVER OPERATION

## To Select AUTO CHANGEOVER Operation



### 1 Press the **START/STOP** button.

The air conditioner will start operation.



### 2 Press the **MASTER CONTROL** button to select **AUTO**.

The operating mode "AUTO" will appear alone in the display. The transmit indicator will flash to indicate the command has been sent, and about three seconds later the entire display panel will reappear.

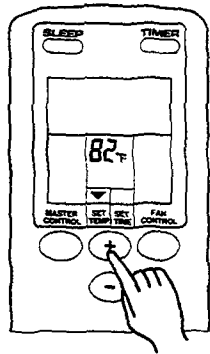
## About AUTO CHANGEOVER Operation

- When AUTO CHANGEOVER operation is selected, the air conditioner selects the appropriate operating mode (Cooling or Heating) in response to your room's temperature.
- When AUTO CHANGEOVER operation first selected, the fan will operate at very low speed for about one minute, during which time the unit detects the room conditions and selects the proper operating mode.
- When the air conditioner has adjusted your room's temperature to near the thermostat setting, it will begin monitor operation. In the monitor operation

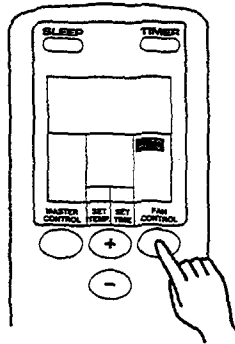
mode, the fan will operate at low speed. If the room temperature subsequently changes, the air conditioner will once again select the appropriate operation (Heating, Cooling) to adjust the temperature to the value set in the thermostat.

(The monitor operation range is  $\pm 4^\circ\text{F}$  relative to the thermostat setting.)

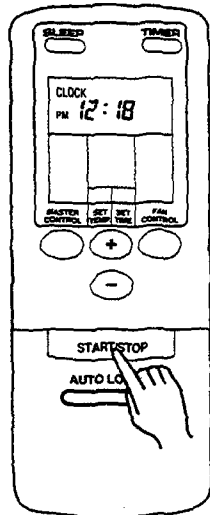
- If the mode automatically selected by the unit is not what you wish, see pages 14 to 15 and select one of the mode operation (HEAT, COOL, DRY, FAN).



Example: When set to 82° F.



Example: When set to AUTO.



### To Set the Thermostat

#### Press the TEMPERATURE set button.

The temperature can be set to 82°, 78°, 74°, 70° or 66° (F).

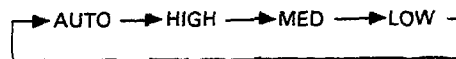
About three seconds later, the entire display will reappear.

**NOTE:** The thermostat setting should be considered a standard value, and may differ somewhat from the actual room temperature.

### To Change the Fan Speed

#### Press the FAN CONTROL button.

Each time the button is pressed, the fan speed changes in the following order:



About three seconds later, the entire display will reappear.

#### When the FAN CONTROL is set to AUTO:

**HEAT:** The fan operates at low speed at the beginning of operation or otherwise when the temperature of the emitted air is relatively low; the fan speed increases as the temperature of the emitted air rises.

**COOL:** Operation begins and as the room temperature approaches that of the thermostat setting, the fan speed switches to the low setting.

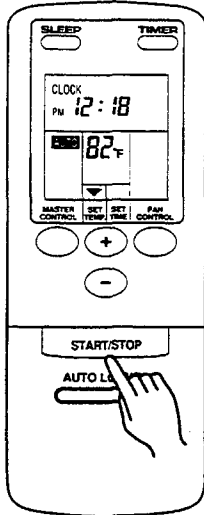
As the difference between the thermostat setting and actual room temperature is reduced, the fan speed becomes slower.

### To Stop Operation

#### Press the START/STOP button.

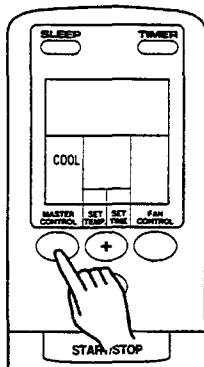
# MODE OPERATION (HEAT, COOL, DRY, FAN)

## To Select Mode Operation



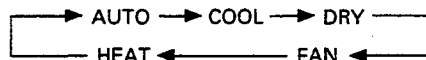
### 1 Press the **START/STOP** button.

The air conditioner will start operation.



### 2 Press the **MASTER CONTROL** button to select the desired mode.

Each time the button is pressed, the mode will change in the following order:



About three seconds later, the entire display will reappear.

**Example:** When set to COOL.

## About Mode Operation

### Heating

- Use to warm your room.
- When Heating mode is selected, the air conditioner will operate at very low fan speed for about 3 to 5 minutes, after which it will switch to the selected fan setting. This period of time is provided to allow the indoor unit to warm up before begin full operation.
- When the room temperature is very low, frost may form on the outside unit, and its performance may be reduced. In order to remove such frost, the unit will automatically enter the defrost cycle from time to time. During defrost cycle, the red OPERATION indicator will flash, and the heat operation will be interrupted.

### Cooling

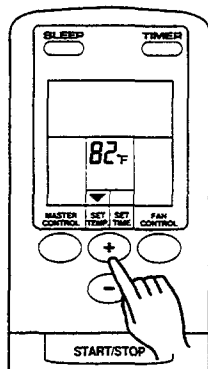
- Use to cool your room.

### Drying

- Use for gently cooling while dehumidifying your room.
- You cannot heat the room during Drying mode.
- During Drying mode, the unit will operate at low speed; in order to adjust room humidity, the indoor unit's fan may stop from time to time. Also, the fan may operate at very low speed when detecting room humidity.
- The fan speed cannot be changed manually when Drying mode has been selected.

### Fan

- Use to circulate air through your room without changing its temperature.



Example: When set to 82°F.

## To Set the Thermostat

Press the **TEMPERATURE** set button.

- ⊕ **button:** Press to increase the thermostat setting.
- ⊖ **button:** Press to lower the thermostat setting.

● **Thermostat setting range:**

Heating ..... 60 to 88°F

Cooling/Drying ..... 64 to 88°F

About three seconds later, the entire display will reappear.

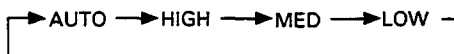
**NOTE:** The thermostat setting should be considered a standard value, and may differ somewhat from the actual room temperature.

The thermostat cannot be used to set room temperature during the FAN mode (the temperature will not appear on the remote control unit's display).

## To Set the Fan Speed

Press the **FAN CONTROL** button.

Each time the button is pressed, the fan speed changes in the following order:



About three seconds later, the entire display will reappear.

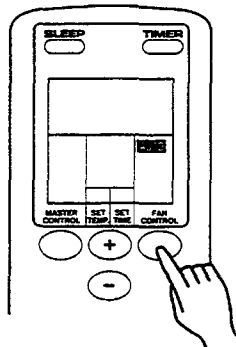
**When set to AUTO:**

**Heating:** The fan operates at low speed at the beginning of operation or otherwise when the temperature of the emitted air is relatively low; the fan speed increases as the temperature of the emitted air rises.

However, the fan will operate at very low speed when the air issued from the indoor unit is low (see P. 14).

**Cooling:** Operation begins and as the room temperature approaches that of the thermostat setting, the fan speed switches to the low setting.

**Fan:** Fan operates at the MED speed setting.



Example: When set to AUTO.

## To Stop Operation

Press the **START/STOP** button.

● **During Heating mode:**

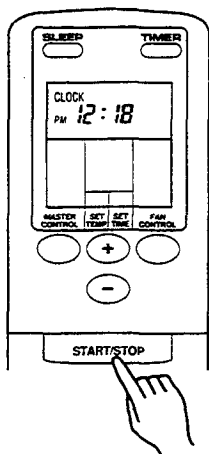
Set the thermostat to a temperature setting that is higher than the current room temperature. The Heating mode will not operate if the thermostat is set lower than the actual room temperature.

● **During Cooling/Drying mode:**

Set the thermostat to a temperature setting that is lower than the current room temperature. The Cooling and Drying modes will not operate if the thermostat is set higher than the actual room temperature (in Cooling mode, the fan alone will operate).

● **During Fan mode:**

You cannot use the unit to heat and cool your room.



# AIR DIRECTION ADJUSTMENT

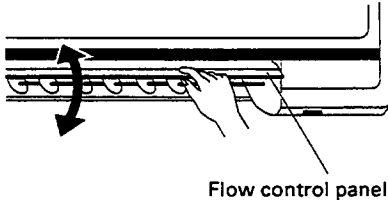
Adjust the air direction in accordance with the mode selected.

## WARNING

- Do not put fingers or other objects into the air louvers; an internal fan operates at high speed and could result in personal injury or damage.
- Do not operate the air conditioner with the airflow louvers blocked, since malfunction could result.

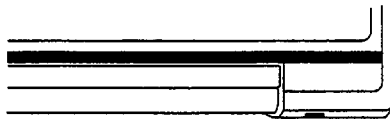
### Vertical Adjustment (Use the Flow Control Panel)

#### Moving the flow control panel



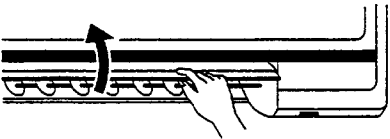
#### During Heating operation:

- Set the flow control panel downward to allow warm air to reach the floor of the room.



#### During Cooling/Drying operation:

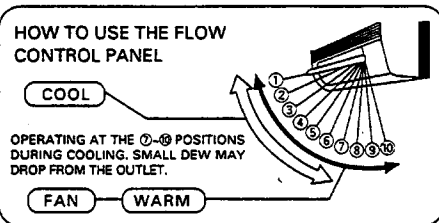
- Set the flow control panel upward to allow cool air to circulate throughout the room.



#### During FAN operation:

- Set the flow control panel as desired.

### About the Air-Direction Range Label



- The blue colour indicates the range for Cooling and Drying.
- The black colour indicates the range for Heating and Fan.

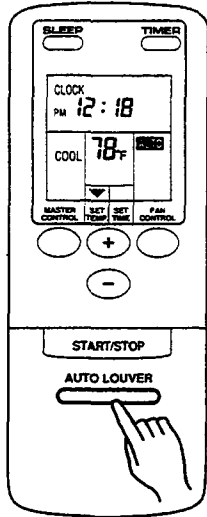
## CAUTION

- In the Cooling and Drying modes, dew may condense around and drop from the air outlet ports when the louvers are set to the Heating range. As a result, we recommend that this position be used only for brief periods.
- When used in a room with infants, elderly or sick persons, the air direction and room temperature should be considered carefully when making settings.

## Horizontal Adjustment (Using the AUTO LOUVER function)

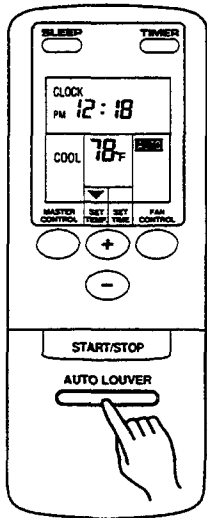
### ■ Press the AUTO LOUVER button.

The Auto Louvers begin moving.



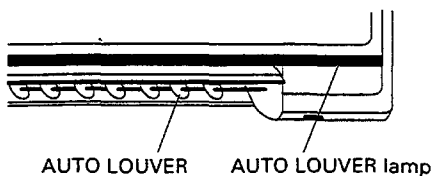
### ■ Press the AUTO LOUVER button again.

The Auto Louvers stop at their current position.

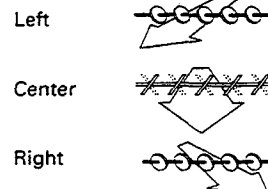


## About the AUTO LOUVER Function

- When the remote control unit's AUTO LOUVER button is pressed, the AUTO LOUVER lamp lights and the direction of air flow changes automatically between right and left.



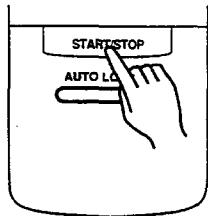
- Louver can be stopped at any position-when the switch is pressed to turn it off.



# TIMER OPERATION

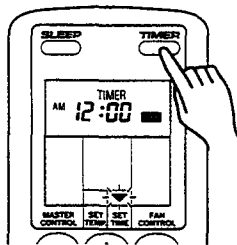
Before using the timer function, be sure that the remote control unit is set to the correct current time (see P. 11).

## OFF TIMER (Stops the air conditioner operation at the set time)



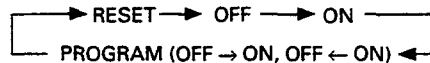
- 1 Press the START/STOP button (if the unit is already operating, proceed to step 2).**

The indoor unit's red OPERATION lamp will light.

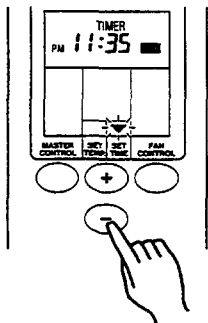


- 2 Press the TIMER button to select the OFF timer operation.**

Each time the button is pressed the timer function changes in the following order:



The indoor unit's green TIMER lamp will light.



- 3 Use the SET TIME buttons to adjust the desired OFF time.**

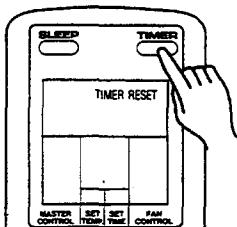
Set the time while the time display is flashing (the flashing will continue about five seconds).

- + button:** Press to advance the time.
- button:** Press to reverse the time.

About three seconds later, the entire display will reappear.

**Example:** When set to turn off at 11:35 P.M.

## To Cancel the Timer

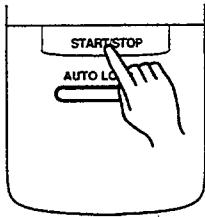


Use the TIMER button to select "RE-SET."  
The air conditioner will return to normal operation.

## To Change the Timer Setting

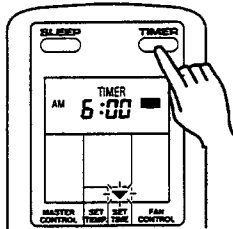
Perform steps 2 and 3.

## ON TIMER (Begins air conditioner operation at the set time)



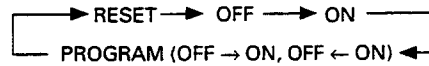
- 1 Press the START/STOP button (if the unit is already operating, proceed to step 2).**

The indoor unit's red OPERATION lamp will light.

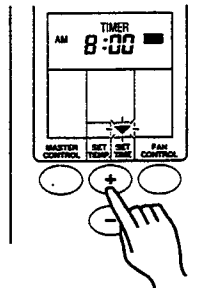


- 2 Press the TIMER button to select the ON timer operation.**

Each time the button is pressed the timer function changes in the following order:



The indoor unit's green TIMER lamp will light.



- 3 Use the SET TIME buttons to adjust the desired ON time.**

Set the time while the time display is flashing (the flashing will continue about five seconds).

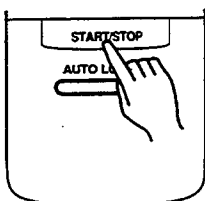
- + button:** Press to advance the time.
- button:** Press to reverse the time.

About three seconds later, the entire display will reappear.

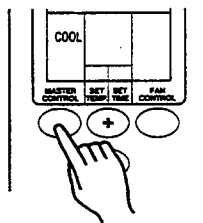
**Example:** When set to turn on at 8:00 A.M.

### To Stop Air Conditioner Operation while the Timer is Operating

Press the START/STOP button.



### To Change Operating Conditions

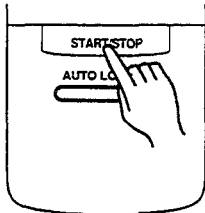


**Example:** To select COOL mode.

If you wish to change operating conditions (Mode, Fan Speed, Thermostat Setting, Auto Louver), after making the timer setting wait until the entire display reappears, then press the appropriate buttons to change the operating condition desired.

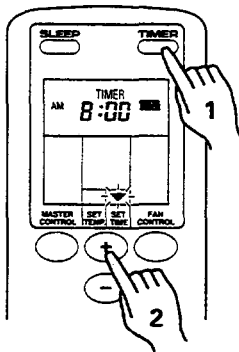
# PROGRAM TIMER

## To Use the Program Timer



- 1 Press the START/STOP button**  
(if the unit is already operating, proceed to step 2).

The indoor unit's red OPERATION lamp will light.



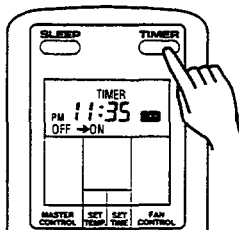
- 2 Set the desired times for OFF timer and ON timer.**

See steps 2 and 3 on pages 18 and 19 to set the desired mode and times.

About three seconds later, the entire display will reappear.

The indoor unit's green TIMER lamp will light.

**Example:** When ON timer is set for 8:00 A.M.



- 3 Press the TIMER button to select the PROGRAM Timer operation (OFF → ON or OFF ← ON will display).**

The display will alternately show "OFF timer" and "ON timer", then change to show the time setting for the operation to occur first.

- The program timer will begin operation. (If the ON timer has been selected to operate first, the unit will stop operating at this point).

About three seconds later, the entire display will reappear.

**Example:** When set to turn off at 11:35 P.M. and turn on at 8:00 A.M.

### About the Program Timer

- The program timer allows you to integrate OFF timer and ON timer operations in a single sequence. The sequence can involve one transition from OFF timer to ON timer, or from ON timer to OFF timer, within a twenty-four hour period.
- The first timer function to operate will be the one set nearest to the current time. The order of operation is indicated by the arrow in the remote control unit's display (OFF → ON, or OFF ← ON).
- One example of program timer use might be to have the air conditioner automatically stop (OFF timer) after you go to sleep, then start (ON timer) automatically in the morning before you arise.

### To Cancel the Timer

See page 18.

### To Stop Air Conditioner Operation while the Timer is Operating

See page 19.

### To Change the Timer Settings

1. Follow steps 2 and 3 on page 18 to 19 to select the timer setting you wish to change.
2. Press the TIMER button to select either OFF → ON or OFF ← ON.

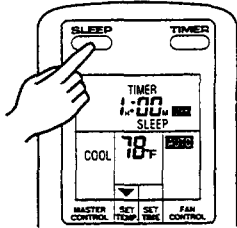
### To Change Operating Conditions

See page 19.

# SLEEP TIMER OPERATION

Unlike other timer functions, the SLEEP timer is used to set the length of time until air conditioner operation is stopped (for example, 2:00 hours).

## To Use the SLEEP Timer

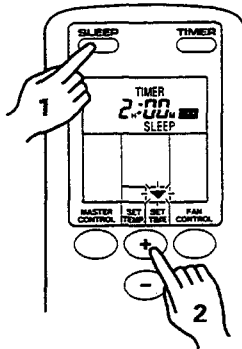


**Example:** When button is pressed during stop.  
(The unit is set to COOL.)

**While the air conditioner is operating or stopped, press the SLEEP button.**

The indoor unit's red OPERATION lamp lights and the green TIMER lamp light.

## To Change the Time Settings



**Example:** When set to turn off two hours from the present time.

**Press the SLEEP button once again and set the time using the time set buttons.**

Set the time while the time display is flashing (the flashing will continue about five seconds).

- **button:** Press to advance the time.
- **button:** Press to reverse the time.

About three seconds later, the entire display will reappear.

## To Cancel the Timer:

See page 18.

## To Stop the Air Conditioner During Timer Operation:

See page 19.

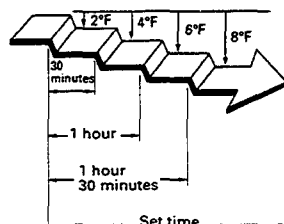
## About the SLEEP Timer

To prevent excessive warming or cooling during sleep, the SLEEP timer function automatically modifies the thermostat setting in accordance with the time setting (except during AUTO CHANGEOVER operation). When the set time has elapsed, the air conditioner completely stops.

### During Heating operation:

When the SLEEP timer is set, the thermostat setting is automatically lowered 2°F every thirty minutes. When the thermostat has been lowered a total of 8°F, the thermostat setting at that time is maintained until the set time has elapsed, at which time the air conditioner automatically turns off.

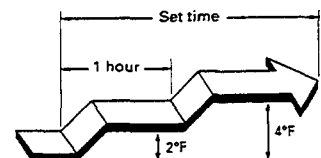
SLEEP timer setting



### During Cooling/Drying operation:

When the SLEEP timer is set, the thermostat setting is automatically raised 2°F every sixty minutes. When the thermostat has been raised a total of 4°F, the thermostat setting at that time is maintained until the set time has elapsed, at which time the air conditioner automatically turns off.

SLEEP timer setting



# CARE AND MAINTENANCE

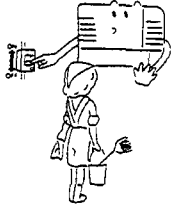


## WARNING

Before cleaning the unit, be sure to stop the unit and disconnect the power supply.

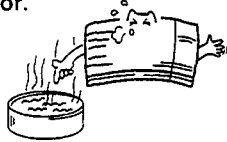
- Turn off the electrical breaker.
- A fan operates at high speed inside the unit, and personal injury could result.

When cleaning the air conditioner, turn off the electrical breaker.

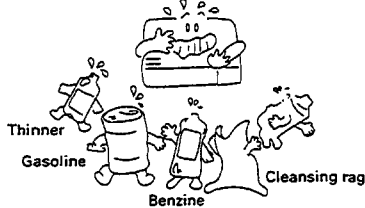


Never use water that is hotter than 100°F. The body may warp or change color.

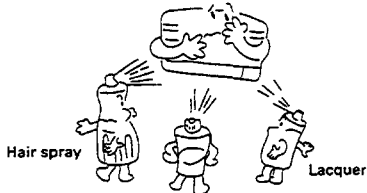
More than 100°F



The unit can be damaged by gasoline, benzene, thinners, insecticides and other chemical agents.



Do not use inflammable sprays such as lacquer or hair spray near the air conditioner.

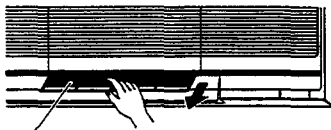


## Cleaning the Air Filter

If dirt is allowed to collect in the air filter, the airflow will be reduced, leading to reduced performance, and increased operating noise. Be sure to clean the filters at the beginning of the operating season, and about every two weeks during periods of frequent operation.

### Remove the Air Filters:

Set the flow control panel to the downward diagonal position, and pull the air filter down and out.



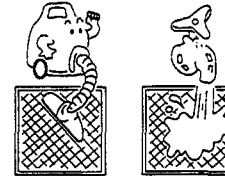
Air filter

## Inspections and Repairs

Depending on the conditions of use, the internal parts of an air conditioner will become dirty after about two or three seasons of use, and performance may be affected. For this reason, regular professional maintenance is recommended. Consult authorized service personnel.

## Cleaning

Use a vacuum cleaner to remove dust and dirt from the air filter, or wash in a synthetic detergent. After washing, dry in a shaded place, then reinstall.

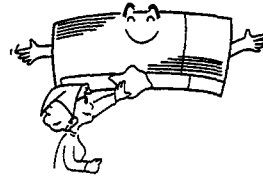


## Installing the Air Filter

Hold the air filter by its handle, and insert into the intake grille, then press in fully to the handle.

## Cleaning the Indoor Unit

Clean the indoor unit by wiping with a cloth dipped in cool or warm water, then wipe with another soft, clean, dry cloth.



## When Not Using the Unit for Extended Periods (One Month or More)

Operate the unit on fan mode for about one-half day on a day with clear weather, to assure that the internal parts are dry (see p. 14).



## CAUTION

When not using the unit for extended periods, disconnect the power for safety.

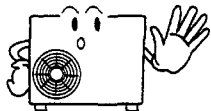


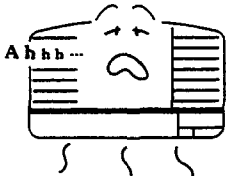
# TROUBLESHOOTING



## WARNING

In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electrical breaker, and consult authorized service personnel. Merely turning off the unit's power switch will not completely disconnect the unit from the power source. Always be sure to turn off the electrical breaker to ensure that power is completely off.

Before requesting service, perform the following checks:



|                  | Symptom  | Problem   | See Page |
|------------------|--|---|----------|
| NORMAL FUNCTIONS | Doesn't operate immediately:<br>          | <ul style="list-style-type: none"> <li>● If the unit is stopped and then immediately started again, the compressor will not operate for about 3 minutes, in order to prevent fuse blowouts.</li> <li>● Whenever the power switch is turned off then on again, the protection circuit will operate for about 3 minutes, preventing unit operation during that period.</li> </ul>   | —        |
|                  | Noise is heard:<br>                       | <ul style="list-style-type: none"> <li>● During operation and immediately after stopping the unit, the sound of water flowing in the air conditioner's piping may be heard. Also, noise may be particularly noticeable for about 2 to 3 minutes after starting operation (sound of coolant flowing).</li> <li>● During operation, a slight squeaking sound may be heard. This is the result of minute expansion and contraction of the front cover due to temperature changes.</li> </ul> | —        |
|                  | Smells:  | <ul style="list-style-type: none"> <li>● During Heating mode, a sizzling sound may be heard occasional. This sound is produced by the automatic defrosting operation.</li> </ul>  | —        |
|                  | Mist or steam are emitted:<br>          | <ul style="list-style-type: none"> <li>● Some smell may be emitted from the indoor unit. This smell is the result of room smells (furniture, tobacco, etc.) which have been taken into the air conditioner.</li> </ul>  | —        |
|                  | Airflow is weak or stops.<br>           | <ul style="list-style-type: none"> <li>● During Cooling or Drying operation, a thin mist may be seen emitted from the indoor unit. This results from the sudden Cooling of room air by the air emitted from the air conditioner, resulting in condensation and misting.</li> <li>● During Heating operation, the outdoor unit's fan may stop, and steam may be seen rising from the unit. This is due to operation of the defrosting mode.</li> </ul>                                     | —        |
|                  |  | <ul style="list-style-type: none"> <li>● When Heating mode is started, fan speed is temporarily very low, to allow internal parts to warm up.</li> <li>● During Heating mode, if the room temperature rises above the thermostat setting, the outdoor unit will stop, and the indoor unit will operate at very low fan speed. If you wish to warm the room further, set the thermostat for a higher setting.</li> </ul>   | —        |
|                  |  | <ul style="list-style-type: none"> <li>● During Heating mode, the unit will temporarily stop operation (between 6 and 12 minutes) as the automatic defrosting mode operates. During defrosting operation, the OPERATION indicator lamp will flash slowly.</li> </ul>  | 25       |
|                  |  | <ul style="list-style-type: none"> <li>● The fan may operate at very low speed during Drying mode or when the unit is monitoring the room's temperature.</li> </ul>   | 14       |
|                  | <ul style="list-style-type: none"> <li>● In the monitor AUTO operation, the fan will operate at very low speed.</li> </ul> | 12  |          |
|                  | Water is produced from the outdoor unit.   | <ul style="list-style-type: none"> <li>● During Heating mode, water may be produced from the outdoor unit due to automatic defrosting operation.</li> </ul>   | —        |

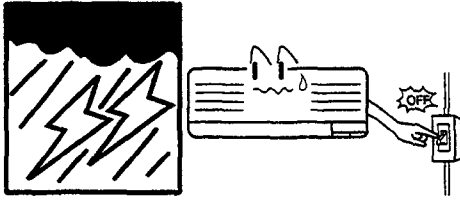
# TROUBLESHOOTING



## WARNING

Consult authorized service personnel for any repairs.

|                 | Symptom   | Items to Check  | See Page |
|-----------------|---|---|----------|
| CHECK ONCE MORE | Doesn't operate at all:<br>                | <ul style="list-style-type: none"> <li>● Did you turn off the electrical breaker?</li> <li>● Has there been a power failure?</li> <li>● Has a fuse blown out, or a circuit breaker been tripped?</li> </ul>   | —        |
|                 |   | <ul style="list-style-type: none"> <li>● Is the main power switch set to the OFF position?</li> </ul>   | 10       |
|                 |   | <ul style="list-style-type: none"> <li>● Is the timer operating?</li> </ul>   | 18 to 21 |
|                 | Poor Cooling (or Heating) performance:<br> | <ul style="list-style-type: none"> <li>● Is the air filter dirty?</li> <li>● Are the air conditioner's intake grille or outlet port blocked?</li> <li>● Did you adjust the room temperature settings (thermostat) correctly?</li> <li>● Is there a window or door open?</li> <li>● In the case of cooling operation, is a window allowing bright sunlight to enter? (Close the curtains.)</li> <li>● In the case of Cooling operation, are there heating apparatus or computers inside the room, or are there too many people in the room?</li> </ul> | —        |

|  |   |          |
|--|---|----------|
| In event of power failure<br> | When MODE switch (P. 7) is set to NORMAL:   | See Page |
|  | <ul style="list-style-type: none"> <li>● If a power failure occurs during operation, all operations will stop (any current timer setting will also be erased). To begin operation again, use the remote control unit normally after power is restored.</li> <li>● If the electrical breaker is turned off and after power is restored, or after being temporarily interrupted, the red OPERATION lamp will flash alternately with the green TIMER lamp (these lamps will not flash if the indoor unit's main POWER switch is set to OFF). When the remote control unit is used to begin operation again, the lamps will stop flashing.</li> </ul> <p>If you wish the unit to restart automatically in its previous operating mode, set the MODE switch to AUTO RESTART.</p> | —        |
|  | <ul style="list-style-type: none"> <li>● In the event that malfunction occurs as the result of a nearby lightning strike or signal from mobile communications equipment, disconnect the power plug from its point and then reconnect, and use the remote control unit normally.</li> </ul>  | —        |

# OPERATION DETAILS

Please read and understand the following details regarding this air conditioner.

## Operation and Performance

### Heating Performance

- This air conditioner uses a heat pump which absorbs heat from outside air and brings it indoors. As a result, its heating performance is reduced as the temperature of outside air drops. If you find that insufficient room heat is produced, we recommend that you use the air conditioner together with other heating appliances.
- Heat-pump type air conditioners use warm-air recirculation to warm your entire room. As a result, some time will be required after starting operation until your entire room becomes warm.

### Microcomputer-controlled Automatic Defrosting

When outside air temperatures are low and humidity is high, using the Heating mode may result in the creation of frost inside the outdoor unit, lowering its heating performance. A built-in microcomputer is used to monitor this condition and when necessary, the defrosting mode operates, resulting in a temporary interruption of the Heating mode (both indoor and outside fans will stop). About 6 to 12 minutes will be required for normal operation to be resumed. During the defrosting mode, the OPERATION indicator lamp will flash.

## Temperature and Humidity Range

Permissible ranges of temperature and humidity are as follows:

|                              |   |
|------------------------------|---|
| Cooling and Drying Operation | Outdoor temperature:<br>About 70°F to 115°F   |
|                              | Indoor temperature:<br>About 64°F to 90°F   |
|                              | Indoor humidity:<br>About 80% or less. If the unit is used for long periods under conditions of high humidity, water may condense on and drip from the surface of the unit. |
| Heating Operation            | Outdoor temperature:<br>About 32°F to 75°F  |
|                              | Indoor temperature:<br>About 80°F or less   |

If the unit is used under higher temperature conditions than those noted here, the automatic protection circuit may operate, interrupting the operation. If the unit is used under lower temperature conditions than those noted here, the heat exchanger may freeze, causing water leakage or other malfunction.

- Do not use the air conditioner for any purpose other than room cooling, room heating, room drying, or fan.



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