

FUJITSU

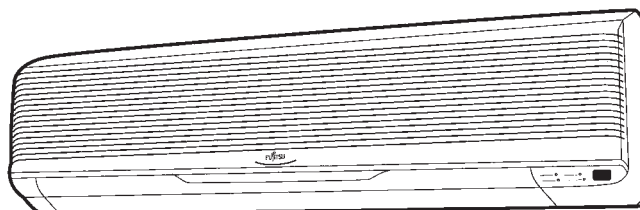
Halcyon 
THE POWER TO CALM THE WIND™

OPERATING MANUAL

ROOM AIR CONDITIONER MULTI SPLIT TYPE (3 ROOMS)

Indoor Unit
ASU18T

Outdoor Unit
AOU36T



English

KEEP THIS OPERATION MANUAL
FOR FUTURE REFERENCE.




FUJITSU GENERAL LIMITED

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SAFETY 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.
- "DANGER", "WARNING" and "CAUTION" have the following meanings in these instructions:

 DANGER!	This mark indicates procedures which, if improperly performed, are most likely to result in the death of or serious injury to the user or service personnel.
 WARNING!	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.
 CAUTION!	This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

DANGER!

- Do not attempt to install this air conditioner by yourself.
- This unit contains no user-serviceable parts. Always consult authorized service personnel for repairs.
- When moving, consult authorized service personnel for disconnection and installation of the unit.
- Do not become excessively chilled by staying for lengthy periods in the direct cooling airflow.
- Do not insert fingers or objects into the outlet port or intake grilles.
- Do not start and stop air conditioner operation by turning off the circuit breaker and so on.
- In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the circuit breaker, and consult authorized service personnel.

CAUTION!

- Provide occasional ventilation during use.
- Do not direct air flow at fireplaces or heating apparatus.
- Do not climb on, or place objects on, the air conditioner.
- Do not hang objects from the indoor unit.
- Do not set flower vases or water containers on top of air conditioners.
- Do not expose the air conditioner directly to water.
- Do not operate the air conditioner with wet hands.
- Turn off power source when not using the unit for extended periods.
- Check the condition of the installation stand for damage.
- Do not place animals or plants in the direct path of the air flow.
- Do not drink the water drained from the air conditioner.
- Do not use in applications involving the storage of foods, plants or animals, precision equipment, or art works.
- Do not apply any heavy pressure to radiator fins.
- Operate only with air filters installed.
- Do not block or cover the intake grille and outlet port.
- Ensure that any electronic equipment is at least one meter away from either the indoor or outdoor units.
- Avoid installing the air conditioner near a fireplace or other heating apparatus.
- When installing the indoor and outdoor unit, take precautions to prevent access to infants.
- Do not use inflammable gases near the air conditioner.
- Always turn off the circuit breaker whenever cleaning the air conditioner or changing the air filter.
- Connection valves become hot during Heating, handle with care.
- When restarting the air conditioner after a long period of disuse, turn the power switch on at least 12 hours before starting the unit.

FEATURES AND FUNCTIONS

AUTOMATIC OPERATION

● COOLING MODEL

Merely press the START/STOP button, and the unit will begin automatic operation in the Cooling or Dry mode as appropriate, in accordance with the thermostat setting and the actual temperature of the room.

● HEAT & COOL MODEL (REVERSE CYCLE)

Merely press the START/STOP button, and the unit will begin automatic operation in either the Heating, Cooling or Monitor modes as appropriate, in accordance with the thermostat setting and the actual temperature of the room.

SLEEP TIMER

● COOLING MODEL

When the SLEEP timer button is pressed during Cooling or Dry mode, the thermostat setting is gradually raised during the period of operation. When the set time is reached, the unit automatically turns off.

● HEAT & COOL MODEL (REVERSE CYCLE)

When the SLEEP timer button is pressed during Heating mode, the air conditioner's thermostat setting is gradually lowered during the period of operation; during Cooling or Dry mode, the thermostat setting is gradually raised during the period of operation. When the set time is reached, the unit automatically turns off.

WIRELESS REMOTE CONTROL UNIT

The WIRELESS REMOTE CONTROL UNIT allows convenient control of air conditioner operation.

OMNI-DIRECTIONAL AIR FLOW (SWING OPERATION)

Three-dimensional control over air direction swing is possible through dual use of both an UP/DOWN air direction swing and RIGHT/LEFT air direction swing. Since UP/DOWN air direction flaps operate automatically according to the operating mode of the unit, it is possible to set air direction based on the operating mode.

REMOVABLE INTAKE GRILLE

The indoor unit's INTAKE GRILLE can be removed for easy cleaning and maintenance.

MILDEW-RESISTANT FILTER

The AIR FILTER has been treated to resist mildew growth, thus allowing cleaner use and easier care.

AIR CLEANING FILTER (Optional)

The optional air cleaning filter uses an electrostatic principle to clean the air of fine particulate matter such as tobacco smoke and plant pollen.

Fig. 1

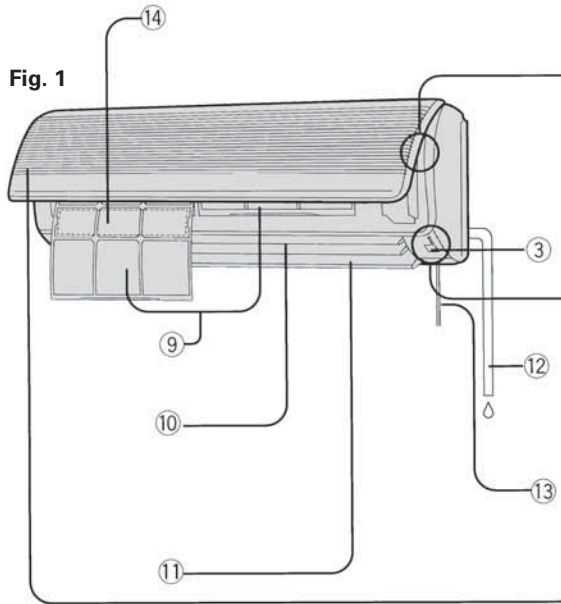


Fig. 2

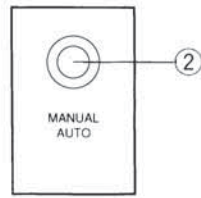


Fig. 3

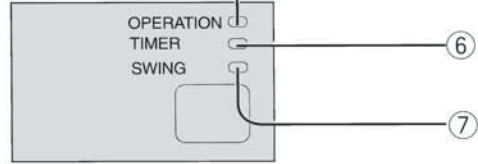


Fig. 4

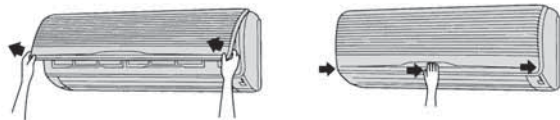


Fig. 5

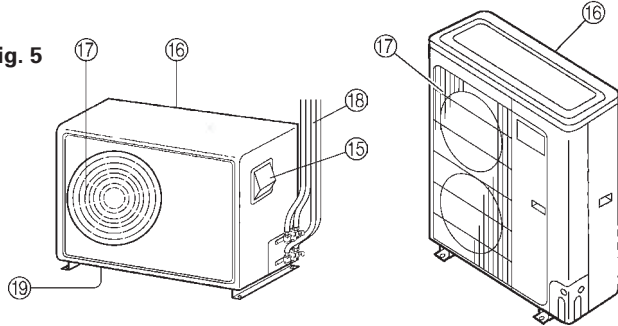


Fig. 6

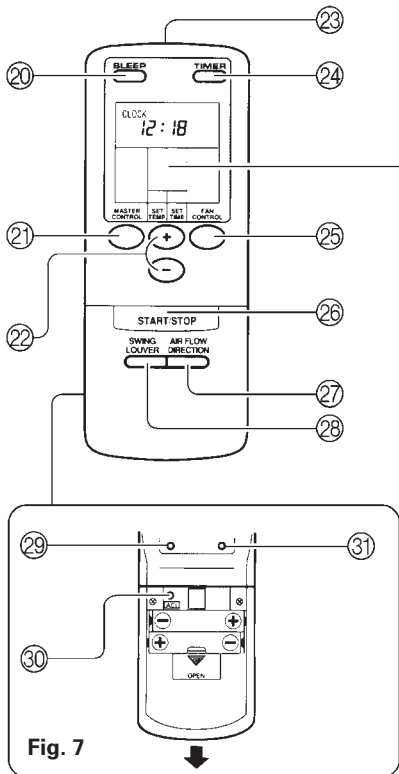


Fig. 7

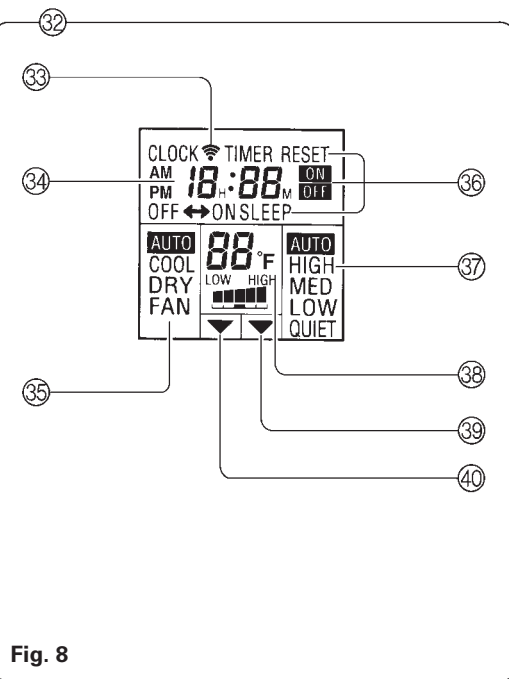
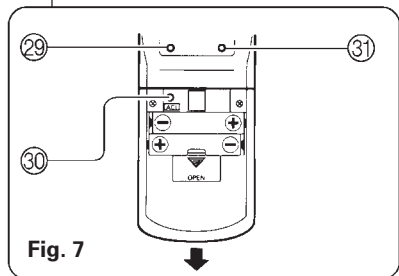


Fig. 8

NAME OF PARTS

Fig. 1 Indoor Unit

- ① Operating Control Panel (Fig. 2)
- ② MANUAL AUTO button
- ③ Remote Control Signal Receiver
- ④ Indicator Lamps (Fig. 3)
 - ⑤ OPERATION Indicator Lamp (red)
 - ⑥ TIMER Indicator Lamp (green)
 - If the TIMER indicator lamp flashes when the timer is operating, it indicates that a fault has occurred with the timer setting (see page 17 Auto Restart).
 - ⑦ SWING Indicator Lamp (orange)
- ⑧ Intake Grille (Fig. 4)
- ⑨ Air Filter
- ⑩ Air Flow Direction Louver
- ⑪ Right-Left Louvers
(behind Air Flow Direction Louver)
- ⑫ Drain Hose
- ⑬ Inter Unit-Line
- ⑭ Air Cleaning Filter (optional)

Fig. 5 Outdoor Unit

- ⑮ Power Supply
- ⑯ Intake Port
- ⑰ Outlet Port
- ⑱ Pipe Unit
- ⑲ Drain port (bottom)

Fig. 6 Remote Control Unit

- ⑳ SLEEP button
- ㉑ MASTER CONTROL button
- ㉒ SET TEMP./SET TIME button (⊕/⊖)
- ㉓ Signal Transmitter
- ㉔ TIMER button
- ㉕ FAN CONTROL button
- ㉖ START/STOP button
- ㉗ AIR FLOW DIRECTION button
- ㉘ SWING LOUVER button

Rear side (Fig. 7)

- ㉙ TIME ADJUST button
- ㉚ ACL button
(located inside battery compartment)
- ㉛ TEST RUN button
 - This button is used when installing the unit, and should not be used under normal conditions, as it will cause the air conditioner's thermostat function to operate incorrectly.
 - If this button is pressed during normal operation, the unit will switch to test operation mode, and the Indoor Unit's OPERATION Indicator Lamp and TIMER Indicator Lamp will begin to flash simultaneously.
 - To stop the test operation mode, press the START/STOP button to stop the air conditioner.

㉜ Remote Control Unit Display (Fig. 8)

- ㉝ Transmit Indicator
- ㉞ Clock Display
- ㉟ Operating Mode Display
- ㊱ Timer Mode Display
- ㊲ Fan Speed Display
- ㊳ Temperature Set Display
- ㊴ Timer Set Indicator
- ㊵ Temperature Set Indicator

NAME OF PARTS

Instructions relating to heating(*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

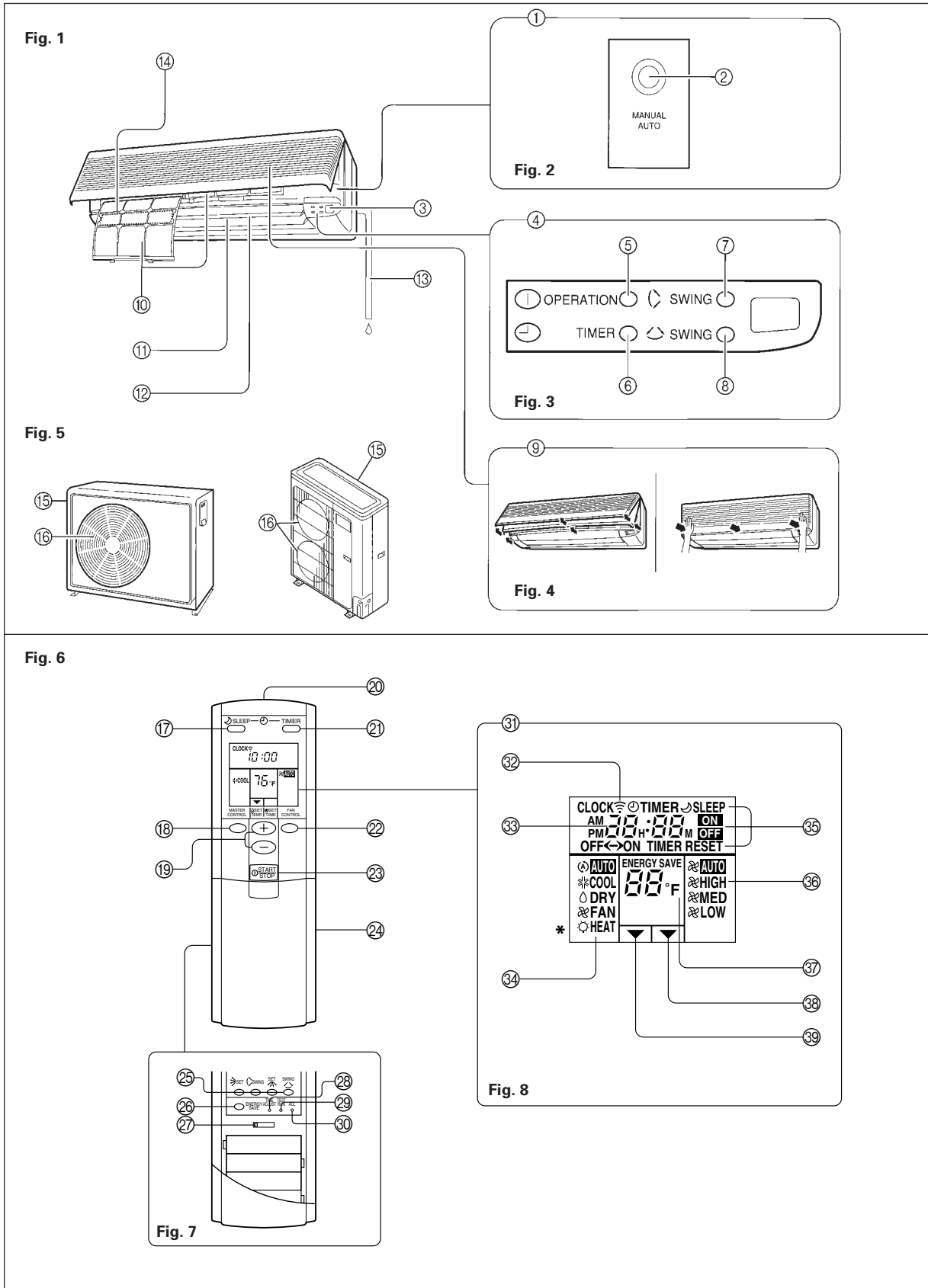


Fig. 1 Indoor Unit

- ① Operating Control Panel (Fig. 2)
- ② MANUAL AUTO button
- ③ Remote Control Signal Receiver
- ④ Indicator Lights (Fig. 3)
 - ⑤ OPERATION Indicator Light (red)
 - ⑥ TIMER Indicator Light (green)
 - ⑦ SWING Indicator Light (orange) (VERTICAL SWING)
 - ⑧ SWING Indicator Light (orange) (HORIZONTAL SWING)
 - If the TIMER indicator light flashes when the timer is operating, it indicates that a fault has occurred with the timer setting (See page 15 Auto Restart).
- ⑨ Intake Grille (Fig. 4)
- ⑩ Air Filter
- ⑪ UP/DOWN Air Direction Flaps
- ⑫ RIGHT/LEFT Air Direction Louvers (behind UP/DOWN Air Direction Flaps)
- ⑬ Drain Hose
- ⑭ Air Cleaning Filter (optional)

Fig. 5 Outdoor Unit

- ⑮ Intake Side
- ⑯ Outlet Side

Fig. 6 Remote Control Unit

- ⑰ SLEEP Button
- ⑱ MASTER CONTROL Button
- ⑲ SET TEMP./SET TIME Buttons (⊕/⊖)
- ⑳ Signal Transmitter
- ㉑ TIMER Button
- ㉒ FAN CONTROL Button
- ㉓ START/STOP Button
- ㉔ Battery compartment lid

Inside of the battery compartment lid (Fig. 7)

- ㉕ AIR FLOW DIRECTION Button
- ㉖ ENERGY SAVE Button
- ㉗ CODE CHANGE (Slide Switch)
Switching the remote control unit code. (Max. 4 units)
- ㉘ TIME ADJUST Button
- ㉙ TEST RUN Button
 - This button is used when installing the air conditioner and should not be used under normal conditions as it will cause the air conditioner's thermostat function to operate incorrectly.
 - If this button is pressed during normal operation, the unit will switch to test operation mode, and the indoor unit's OPERATION indicator light and TIMER indicator light will begin to flash simultaneously.
 - To stop the test operation mode, either press the TEST RUN button once again, or press the START/STOP button to stop the air conditioner.
- ㉚ ACL Button

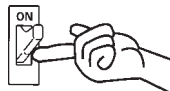
Remote Control Unit Display (Fig. 8)

- ㉛ Transmit Indicator
- ㉜ Clock Display
- ㉝ Operating Mode Display
- ㉞ Timer Mode Display
- ㉟ Fan Speed Display
- ㊱ Temperature Set Display
- ㊲ Timer Set Indicator
- ㊳ Temperature Set Indicator

PREPARATION

Turn on the Power

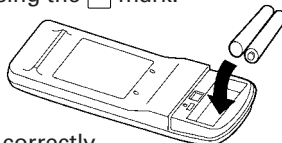
In the case of a direct line connection, turn on the circuit breaker.



Load Batteries (AAA × 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 (\oplus/\ominus) correctly.

3 Close the battery compartment lid.

Set the Current time

1 Press the TIME ADJUST button (Fig. 7).

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

2 Use the \oplus/\ominus SET TEMP./SET TIME buttons (Fig. 6) to adjust the clock to the current time.

\oplus button: Press to advance the time.

\ominus 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 steps.)

3 Press the TIME ADJUST button again.


This completes the time setting and starts the clock.

⚠ CAUTION!

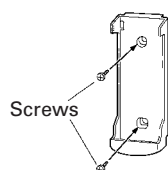
- Take care to prevent infants from accidentally swallowing batteries.
- When not using the remote control unit for an extended period, remove the batteries to avoid possible leakage and damage to the unit.
- If leaking battery fluid comes in contact with your skin, eyes, or mouth, immediately wash with 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 appropriate authority.
- Do not attempt to recharge dry batteries.

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 (Fig. 7 ) with the tip of a ballpoint pen or other small object.

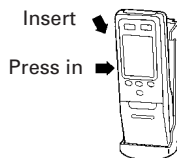
To Use the Remote Control Unit

- The remote control unit must be pointed at signal receiver (Fig. 1 ) to operate correctly.
- Operating range: About 7 meters.
- When a signal is properly received by the air conditioner, a beep be heard.
- If no beep is heard, press the remote control unit button again.

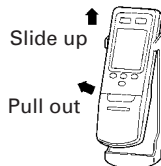
Remote Control Unit Holder



① Mount the Holder.



② Set the Remote Control Unit.



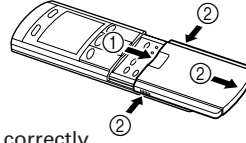
③ To remove the Remote Control Unit.

PREPARATION

Load Batteries (R03/LR03/AAA × 4)

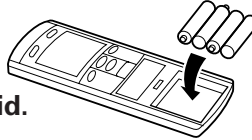
1 Open the battery compartment lid.

- ① Slide the battery compartment lid until it stops.
- ② While strongly gripping the portion on each side of the battery compartment lid that has a rough surface, slide the lid until it comes completely off.



2 Insert batteries.

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



3 Close the battery compartment lid.

Set the Current time

1 Press the TIME ADJUST button.

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

2 Use the (+/−)SET TIME 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.)

3 Press the TIME ADJUST button again.

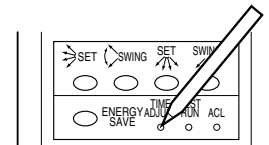
This completes the time setting and starts the clock.

⚠ CAUTION!

- Take care 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 immediately and disposed of properly, either in a battery collection receptacle or to the appropriate authority.
- Do not attempt to recharge dry batteries.

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 ballpoint pen or other small object.



To Use the Remote Control Unit

- The remote control unit must be pointed at signal receiver to operate correctly.
- Maximum operating range: Approximately 10 meters. (This may not apply when the battery is low or there are obstacles.)
- When a signal is properly received by the air conditioner, a beep will be heard.
- If no beep is heard, press the remote control unit button again.

Remote Control Unit Holder

For Hand-Held use

- ① Mount the Holder.
- ② Set the Remote Control Unit.
- ③ To remove the Remote Control Unit.

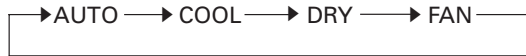
For Wall Mount use

- ① Mount the Holder.
- ② Set the Remote Control Unit.
- ③ Attach the unit to the holder as shown.

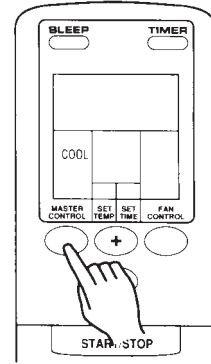
OPERATION

To Select Mode Operation

- 1 Press the START/STOP button (Fig.6 ㉔).**
The indoor unit's OPERATION indicator lamp (red) (Fig. 3 ㉔) will light.
The air conditioner will start operation.
- 2 Press the MASTER CONTROL button (Fig.6 ㉑) 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

To Set the Thermostat

Press the SET TEMP. buttons (Fig. 6 ㉒).

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

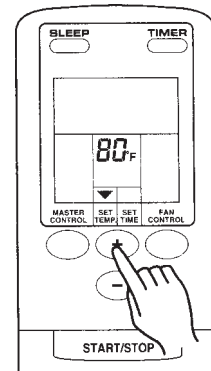
● Thermostat setting range:

Cooling/Drying 64 to 88 °F
Fan 62 to 88 °F

About three seconds later, the entire display will reappear.

NOTE:

- During Fan mode, set the unit to "--" for continuous fan operation regardless of room temperature.



Example: When set to 80 °F

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

To Set the Fan Speed

Press the FAN CONTROL button (Fig. 6 ㉓).

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:

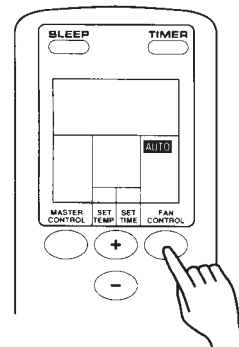
Cooling : As the room temperature approaches that of the thermostat setting, the fan speed becomes slower.

Fan : The fan will operate at the optimum speed in accordance with the room temperature in the vicinity of the indoor unit.

When set to QUIET:

SUPER QUIET operation begins. The indoor unit's airflow will be reduced for quieter operation.

- SUPER QUIET operation cannot be used during Dry mode. (The same is true when dry mode is selected during AUTO mode operation.)
- During SUPER QUIET operation, Cooling performance will be reduced somewhat.



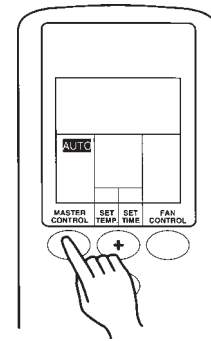
Example: When set to AUTO

In order to increase the drying effect during quiet cooling operation, the fan of the indoor unit may stop.

To Select Automatic Operation

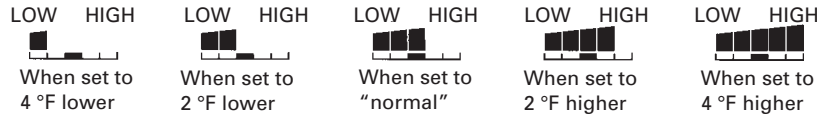
Press the MASTER CONTROL button to select AUTO.

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.



To Set the Thermostat

Press the TEMPERATURE set button.



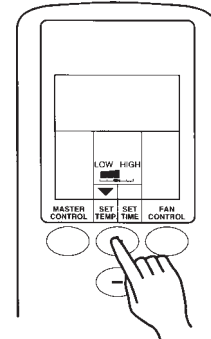
About three seconds later, the entire display will reappear.

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

To Stop Operation

Press the START/STOP button.

The OPERATION indicator lamp (red) (Fig. 3 ⑤) will go out.



About Mode Operation

AUTO:

- Depending on the room temperature at the time operation begins, the operating mode will be switched automatically as shown in the accompanying table. Also, depending on the operating mode, the room temperature setting will cause the "standard" temperature to be set as shown.

Actual Room Temperature	Operating Mode	Thermostat Setting (standard setting)
88 °F or above →	Cooling →	82 °F
82 to 88 °F →	Cooling →	80 °F
78 to 82 °F →	Dry →	76 °F
74 to 78 °F →	Dry →	72 °F
Below 74 °F →	Dry →	68 °F

The operating mode and standard thermostat settings are selected automatically when operation begins.

- When automatic operation is initiated, the fan will run at very low speed for about one minute while the unit detects and selects the proper operating mode.
- Once the operating mode has been set, the mode will not change even if the room temperature changes.
- If the START/STOP button is pressed to recommence operation within two hours after stopping automatic operation, the unit will begin operating from the same mode as before.

Cooling:

- Use to cool your room.

Dry:

- Use for gently cooling while dehumidifying your room.
- You cannot heat the room during Dry mode.
- During Dry 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 Dry mode has been selected.

Fan:

- Use to circulate warm air from ceiling area throughout room when using space heaters.

Example: When set to "normal"

During Cooling/Dry mode:

Set the thermostat to a temperature setting that is lower than the current room temperature. The Cooling and Dry 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:

- Fan operation begins when room temperature in the vicinity of the air conditioner rises above the set thermostat temperature; when the temperature drops, fan operation stops.
- If the air emitted feels too cool, raise the thermostat setting.

OPERATION

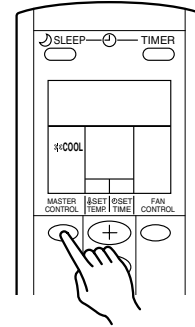
Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

To Select Mode Operation

- 1 Press the START/STOP button.**
The indoor unit's OPERATION indicator light (red) will be on.
The air conditioner will start operating.
- 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

To Set the Thermostat

Press the SET TEMP. buttons.

- +** button: Press to raise the thermostat setting.
- button: Press to lower the thermostat setting.

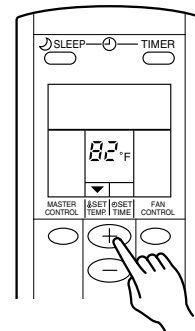
●Thermostat setting range:

- AUTO 64 to 88 °F
- * Heating 60 to 88 °F
- Cooling/Dry 64 to 88 °F

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).

About three seconds later, the entire display will reappear.

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

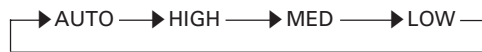


Example: When set to 82 °F

To Set the Fan Speed

Press the FAN CONTROL button.

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

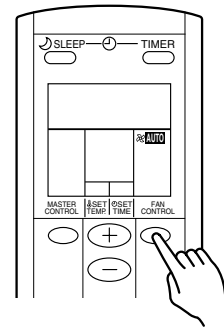


About three seconds later, the entire display will reappear.

When set to AUTO:

- * Heating** : Fan operates so as to optimally circulate warm air.
However, the fan will operate at very low speed when the temperature of the air from the indoor unit is low.
- Cooling** : As the room temperature approaches that of the thermostat setting, the fan speed becomes slower.
- Fan** : The fan alternately turns on and off; when on, the fan runs at the low fan speed.

The fan will operate at a very low setting during Monitor operation and at the start of the Heating mode.



Example: When set to AUTO

To Stop Operation

Press the START/STOP button.

The OPERATION indicator light (red) will turn off.

OPERATION

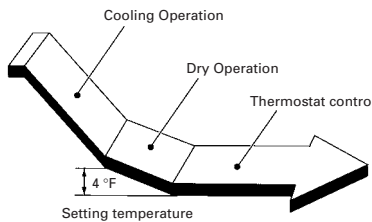
Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

About Mode Operation

AUTO:

COOLING MODEL

- When the room temperature is 4 °F higher than the set temperature, the mode will switch between Cooling and Drying.
- During the Drying mode operation, the FAN setting should be switched to LOW for a gently cooling effect during which the fan may temporarily stop rotating.
- If the mode automatically selected by the unit is not satisfactory, see page 6 for instructions on changing the mode setting (COOL, DRY, FAN).



AUTO (* AUTO CHANGEOVER):

HEAT & COOL MODEL (Reverse cycle)

- When AUTO CHANGEOVER is selected, the air conditioner selects the appropriate operation mode (Cooling or Heating) according to your room's present temperature.
- When AUTO CHANGEOVER is first selected, the fan will operate at very low speed for about one minute while the unit determines the current conditions of the room and accordingly selects the proper operation 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 ± 4 °F relative to the thermostat setting.)
- If the mode automatically selected by the unit is not satisfactory, see page 6 for instructions on changing the mode setting (HEAT, COOL, DRY, FAN).

*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 Automatic Defrosting operation, the OPERATION indicator light (red) will flash, and the heat operation will be interrupted.

Cooling:

- Use to cool your room.

Dry:

- Use for gently cooling while dehumidifying your room.
- You cannot heat the room during Dry mode.
- During Dry 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 Dry mode has been selected.

Fan:

- Use to circulate the air throughout your room.

* 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/Dry mode:

Set the thermostat to a temperature setting that is lower than the current room temperature. The Cooling and Dry 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:

The heat and cool functions of this unit cannot operate in the Fan mode.

TIMER OPERATION

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

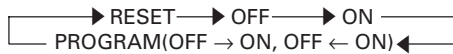
Before using the timer function, be sure that the remote control unit is set to the current time (See page 5).

To Use the ON timer or OFF timer

- 1 Press the **START/STOP** button (if the unit is already operating, proceed to step 2).
The indoor unit's OPERATION indicator light (red) will turn on.

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

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



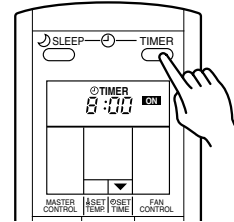
The indoor unit's TIMER indicator light (green) will turn on.

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

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

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

About five seconds later, the entire display will reappear.



To Cancel the Timer

Use the **TIMER** button to select "TIMER RESET."

The air conditioner will return to normal operation.

To Change the Timer Settings

Perform steps 2 and 3.

To Stop Air Conditioner Operation while the Timer is Operating

Press the **START/STOP** button.

To Change Operating Conditions

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

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 OPERATION indicator light (red) will turn on.

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

See the section "To Use the ON timer or OFF timer" to set the desired mode and times.

About three seconds later, the entire display will reappear.

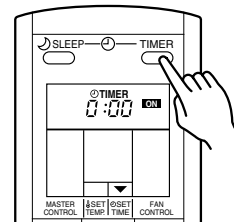
The indoor unit's TIMER indicator light (green) will turn on.

- 3 Press the **TIMER** button to select the PROGRAM timer operation (either 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 five seconds later, the entire display will reappear.



To Cancel the Timer

Use the **TIMER** button to select "TIMER RESET."

The air conditioner will return to normal operation.

To Change the Timer Settings

1. Follow the instructions given in the section "To Use the ON Timer or OFF Timer" to select the timer setting you wish to change.
2. Press the **TIMER** button to select either OFF → ON or OFF ← ON.

To Stop Air Conditioner Operation while the Timer is Operating

Press the **START/STOP** button.

To Change Operating Conditions

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

TIMER OPERATION

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 rise.

About the ON timer

- The timer function is designed to bring your room to a comfortable temperature by the set time; as a result, the unit automatically begins operation before the set time so that the room reaches the desired temperature by the time set on the timer.
- The hotter it is in summer, or the colder it is in winter, the earlier that operation will begin.
- * During Heating Operation from 45 to 10 minutes before set time.
During Cooling/Dry Operation ... from 20 to 10 minutes before set time.
During Fan Operation at the set time.

SLEEP TIMER OPERATION

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

Unlike other timer functions, the SLEEP timer is designed to set the duration of time in which the unit does not operate.

To Use the SLEEP timer

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

Both the indoor unit's OPERATION indicator light (red) and the TIMER indicator light (green) will turn on.

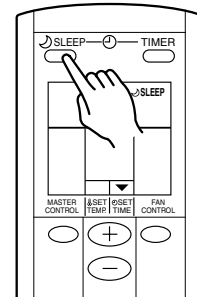
To Change the Timer Settings

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

Set the time while the Timer Mode Display is flashing (the flashing will continue for about five seconds).

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

About five seconds later, the entire display will reappear.



To Cancel the Timer:

Use the TIMER button to select "TIMER RESET". The air conditioner will return to normal operation.

To Stop the Air Conditioner During Timer Operation:

Press the START/STOP button.

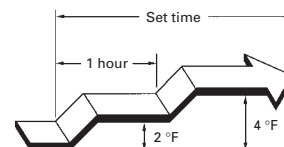
About the SLEEP timer

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

During Cooling/Dry 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



ADJUSTING THE DIRECTION OF AIR CIRCULATION

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

Vertical (up-down) direction of airflow is adjusted by pressing the remote control unit's AIR FLOW DIRECTION VERTICAL SET button. Horizontal (right-left) direction of airflow is adjusted by pressing the remote control unit's AIR FLOW DIRECTION HORIZONTAL SET button.

Vertical Air Direction Adjustment

Press the AIR FLOW DIRECTION VERTICAL SET button.

Each time the button is pressed, the air direction range will change as follows:



Types of Air flow Direction Setting:

- ①,②,③,④ : During Cooling/Dry Modes
- ⑤,⑥,⑦ : * During Heating mode

The remote control unit's display does not change.

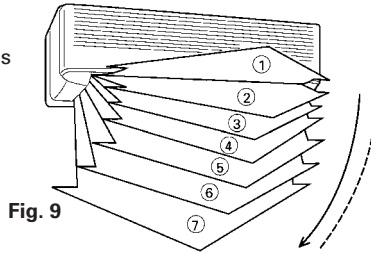


Fig. 9

- Use the air direction adjustments within the ranges shown above.
- The vertical airflow direction is set automatically as shown, in accordance with the type of operation selected.
 - During Cooling/Dry mode : Horizontal flow ①
 - * During Heating mode : Downward flow ⑦
- During AUTO mode operation, for the first minute after beginning operation, airflow will be horizontal ①; the air direction cannot be adjusted during this period.

⚠ DANGER!

Never place fingers or foreign objects inside the outlet ports, since the internal fan operates at high speed and could cause personal injury.

- Always use the remote control unit's AIR FLOW DIRECTION button to adjust the UP/DOWN air direction flaps or RIGHT/LEFT air direction louvers. Attempting to move them manually could result in improper operation; in this case, stop operation and restart. The louvers should begin to operate properly again.
- During use of the Cooling and Dry modes, do not set the UP/DOWN air direction flaps in the Heating range (⑤ to ⑦) for long periods of time, since water vapor may condense near the outlet louvers and drops of water may drip from the air conditioner.
- When used in a room with infants, children, elderly or sick persons, the air direction and room temperature should be considered carefully when adjusting settings.

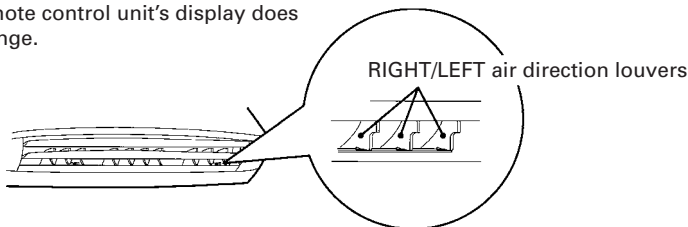
Horizontal Air Direction Adjustment

Press the AIR FLOW DIRECTION HORIZONTAL SET button.

Each time the button is pressed, the air direction range will change as follows:



The remote control unit's display does not change.



- Use the air direction adjustments within the ranges shown above.

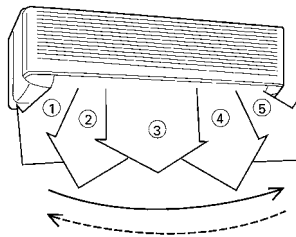
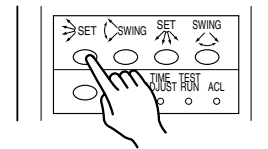
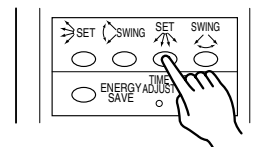


Fig. 10



Example: When set to vertical air direction



Example: When set to horizontal air direction

ADJUSTING THE DIRECTION OF AIR CIRCULATION

Vertical (up-down) direction of airflow is adjusted by pressing the Remote Control Unit's AIR FLOW DIRECTION button. Horizontal (right-left) airflow direction is adjusted manually, by moving the Air Flow Direction Louvers. Whenever making horizontal airflow adjustments, start air conditioner operation and be sure that the vertical air direction louvers are stopped.

Vertical Air Direction Adjustment

Press the AIR FLOW DIRECTION button (Fig. 6 27).

Each time the button is pressed, the air direction range will change as follows:

Cooling/Dry mode	① ⇔ ② ⇔ ③ ⇔ (⑥) ^{NOTE}	
Fan mode	① ⇔ ② ⇔ ③ ⇔ ④ ⇔ ⑤ ⇔ ⑥ ⇔ ⑦	

- Use the air direction adjustments within the ranges shown above.
- The vertical airflow direction is set automatically as shown, in accordance with the type of operation selected.
 - During Cooling/Dry modes : Horizontal flow ①
 - During Fan mode : Downward flow ⑥
- If you wish to select a different airflow direction, you may use the remote control unit's AIR FLOW DIRECTION button to choose a different setting.
- During AUTO mode operation, for the first minute after beginning operation, airflow will be horizontal ①; the air direction cannot be adjusted during this period.

NOTE

You can select the air direction ①, ②, ③, or ⑥ (downward) by pressing the AIR FLOW DIRECTION button.

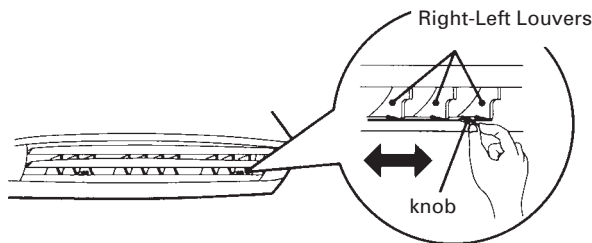
Use the air direction ⑥ when you want to cool yourself for a while after taking a bath or shower, or after coming back home in summer months.

But, for prevention of condensation on the louver, the air direction ⑥ is automatically released after 30 minutes and turned to the air direction ③.

Right-Left Adjustment

Adjust the Right-Left louvers.

- Move the Right-Left louvers to adjust air flow in the direction you prefer.



CAUTION!

Never place fingers or foreign objects inside the outlet ports, since the internal fan operates at high speed and could cause personal injury.

- Always use the remote control unit's AIR FLOW DIRECTION button to adjust the vertical airflow louvers. Attempting to move them manually could result in improper operation; in this case, stop operation and restart. The louvers should begin to operate properly again.
- When used in a room with infants, children, elderly or sick persons, the air direction and room temperature should be considered carefully when making settings.
- Always operate the Air Flow Direction Louvers and the Power Diffuser with the air flow direction buttons on the remote control. Forcible movement by hand can cause incorrect operation. In such a case, stop the operation to let the unit return to normal condition.

SWING OPERATION

Begin air conditioner operation before performing this procedure.

To select SWING Operation

Press the SWING LOUVER button (Fig. 6 ⑳).

The SWING indicator lamp (orange) (Fig. 3 ㉗) will light.

In this mode, the Air Flow Direction Louvers will swing automatically to direct the airflow both up and down.

To Stop SWING Operation

Press the SWING LOUVER button (Fig. 6 ㉑) once again.

The SWING indicator lamp (orange) (Fig. 3 ㉗) will go out.

Airflow direction will return to the setting before swing was begun.

About Swing Operation

- The SWING range is as follows:

Cooling/Dry mode	① ↔ ③, (④ ↔ ⑦) NOTE	
Fan mode	① ↔ ③, ④ ↔ ⑦	

- The SWING operation may stop temporarily when the air conditioner's fan is not operating or when operating at very low speeds.
- The airflow direction can not be adjusted during SWING operation even when the AIR FLOW DIRECTION button is pressed.

NOTE

The air swings between ④ and ⑦ by pressing the SWING LOUVER button after selecting the air direction ⑥ (downward) by pressing the AIR FLOW DIRECTION button. Use this operation when you want to cool yourself for a while after taking a bath or shower, or after coming back home in summer months. But, for prevention of condensation on the louver, the swing of the air direction ④ ↔ ⑦ is automatically released after 30 minutes and turned to the swing of the air direction ① ↔ ③.

MANUAL AUTO OPERATION

Use the MANUAL AUTO operation in the event the Remote Control Unit is lost or otherwise unavailable.

How To Use the Main Unit Controls

Press the MANUAL AUTO button (Fig. 2 ㉒) on the main unit control panel.

To stop operation, press the MANUAL AUTO button once again. (Controls are located inside the Intake Grille.)

- When the air conditioner is operated with the controls on the Main unit, it will operate under the same mode as the AUTO mode selected on the Remote Control Unit (see page 8).
- The fan speed selected will be "AUTO" and the thermostat setting will be standard.

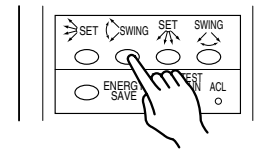
SWING OPERATION

Begin air conditioner operation before performing this procedure.

To select Vertical airflow SWING Operation

Press the AIR FLOW DIRECTION VERTICAL SWING button .

The SWING indicator light (VERTICAL SWING) (orange) will turn on. In this mode, the UP/DOWN air direction flaps will swing automatically to direct the air flow both up and down.



Example: When set to vertical swing

To Stop Vertical airflow SWING Operation

Press the AIR FLOW DIRECTION VERTICAL SWING button once again.

The SWING indicator light (VERTICAL SWING) will turn off. Airflow direction will return to the setting before swing was begun.

About Swing Operation

- The range of swing is relative to the currently set airflow direction.

Air flow direction set	Range of swing
①	① to ③
②	① to ④
③	② to ⑤
④	③ to ⑥
⑤	④ to ⑦
⑥	⑤ to ⑦
⑦	① to ⑦ (All range)

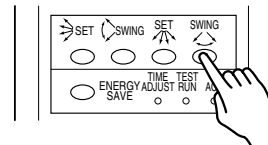
Air direction range (See page 10, Fig. 9)

- If the swing range is not as desired, use the remote control unit's AIR FLOW DIRECTION VERTICAL SET button to change the range of swing.
- The SWING operation may stop temporarily when the air conditioner's fan is not operating, or when operating at very low speeds.
- During use of the Cooling and Dry modes, do not set the air UP/DOWN direction flaps, in the Heating range (⑤ to ⑦) for long periods of time, since water vapor may condense near the outlet louvers and drops of water may drip from the air conditioner.

To select Horizontal airflow SWING Operation

Press the AIR FLOW DIRECTION HORIZONTAL SWING button.

The SWING indicator light (HORIZONTAL SWING) (orange) will turn on. In this mode, the RIGHT/LEFT air direction louvers will swing automatically to direct the airflow both right and left.



Example: When set to horizontal swing

To Stop Horizontal airflow SWING Operation

Press the AIR FLOW DIRECTION HORIZONTAL SWING button once again.

The SWING indicator light (HORIZONTAL SWING) will turn off. Airflow direction will return to the setting before swing was begun.

About Swing Operation

- The range of swing is relative to the currently set airflow direction.

Air flow direction set	Range of swing
①	① to ⑤ (All range)
②	① to ③
③	② to ④
④	③ to ⑤
⑤	① to ⑤ (All range)

Air direction range (See page 10, Fig. 10)

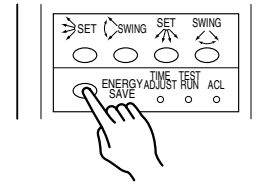
- If the swing range is not as desired, use the remote control unit's AIR FLOW DIRECTION HORIZONTAL SET button to change the range of swing.
- The SWING operation may stop temporarily when the air conditioner's fan is not operating, or when operating at very low speeds.

ENERGY SAVE OPERATION

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).
The air conditioner can be operated while keeping energy consumption costs down.

How To Use the ENERGY SAVE OPERATION

- 1 Press the START/STOP button (if the unit is already operating, proceed to step 2).**
The indoor unit's OPERATION indicator light (red) will turn on.
- 2 Press the MASTER CONTROL button to select the COOL, DRY, *HEAT mode.**
- 3 Press the ENERGY SAVE button.**
ENERGY SAVE can only be used if the MASTER CONTROL button is used to select the "COOL", "DRY" or "*HEAT".



To Cancel the ENERGY SAVE:
Press the ENERGY SAVE button.

About the ENERGY SAVE

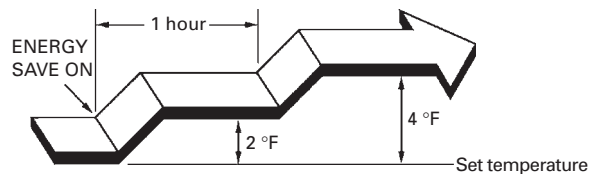
The air conditioner saves energy costs by controlling the thermostat temperature setting.

During Cooling/Dry operation:

The thermostat temperature setting increases by 2 °F as soon as the ENERGY SAVE button is pressed, and then increases by another 2 °F after one hour has passed.

In this manner, energy is saved by continuing to cool or dry at a thermostat temperature of 4 °F above the setting.

ENERGY SAVE setting



MANUAL AUTO OPERATION

Use the MANUAL AUTO operation in the event the remote control unit is lost or otherwise unavailable.

How To Use the Main Unit Controls

Press the MANUAL AUTO button on the main unit control panel.

To stop operation, press the MANUAL AUTO button once again.

⚠ CAUTION!

Do not press the MANUAL AUTO button with wet hands or pointed objects, otherwise an electric shock or malfunction may occur.

- When the air conditioner is operated with the controls on the Main unit, it will operate under the same mode as the AUTO mode selected on the remote control unit (see page 7).
- The fan speed selected will be "AUTO" and the thermostat setting will be 73 °F.

CLEANING AND CARE



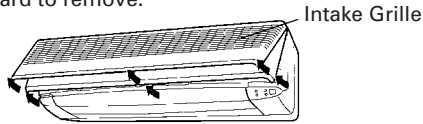
CAUTION!

- Before cleaning the air conditioner, be sure to turn it off and disconnect the power supply.
- Be sure the intake grille is installed securely.
- When removing and replacing the air filters, be sure not to touch the heat exchanger, as personal injury may result.
- Turn off the circuit breaker.

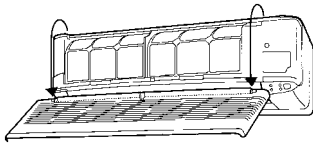
Cleaning the Intake Grille

1. Remove the intake grille.

- ① Place your fingers at both lower ends of the grille panel, and lift forward; if the intake grille seems to catch partway through its movement, continue lifting upward to remove.



- ② Lift up the intake grille fully to remove.

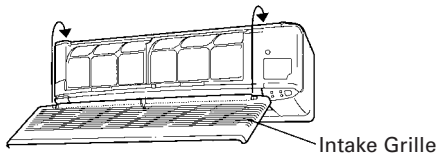


2. Clean with water.

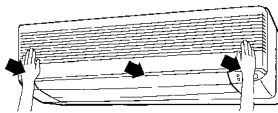
Remove dust with a vacuum cleaner; wipe the unit with warm water, then dry with a clean, soft cloth.

3. Replace the intake grille.

- ① Holding the intake grille horizontally, fasten the two upper hooks on the unit.



- ② Press the intake grille down at the lower sides to close.

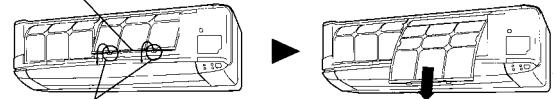


Cleaning the Air Filter

1. Open the intake grille, and remove the air filter.

Lift up the air filter's handle, disconnect the two lower tabs, and pull out.

Air filter handle

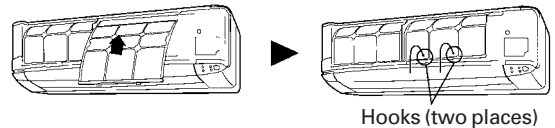


2. Remove dust with a vacuum cleaner or by washing.

After washing, allow to dry thoroughly in a shady place.

3. Replace the air filter and close the intake grille.

- ① Align the sides of the air filter with the panel, and push in fully, making sure the two lower tabs are returned properly to their openings in the panel.



- ② Close the intake grille.

(In the illustration, the unit is shown without the intake grille installed.)

- Dust can be cleaned from the air filter either with a vacuum cleaner, or by washing the filter in a solution of mild detergent and warm water. If you wash the filter, be sure to allow it to dry thoroughly in a shady place before re-installing.
- If dirt is allowed to accumulate on the air filter, air flow will be reduced, lowering operating efficiency and increasing noise.
- During periods of normal use, the air filters should be cleaned every two weeks.

When using the optional Air Cleaning Filter

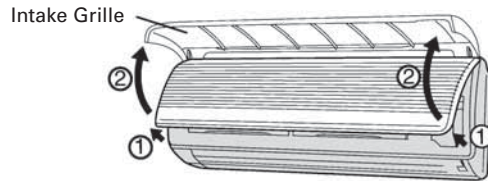
- Install the optional air cleaning filter set as instructed (installation instructions are furnished with the air cleaning filter set).

- When used for extended periods, the unit may accumulate dirt inside, reducing its performance. We recommend that the unit be inspected regularly, in addition to your own cleaning and care. For more information, consult authorized service personnel.
- When cleaning the unit's body, do not use water hotter than 100 °F, harsh abrasive cleansers, or volatile agents like benzene or thinner.
- Do not expose the unit body to liquid insecticides or hairsprays.
- When shutting down the unit for one month or more, first allow the fan mode to operate continuously for about one-half day to allow internal parts to dry thoroughly.

Cleaning the Intake Grille

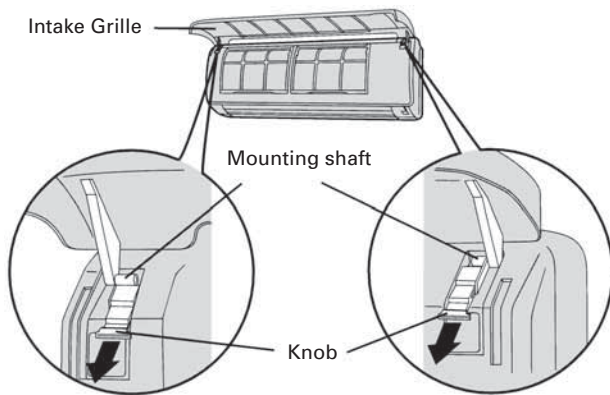
1. Open the Intake Grille.

- ① Place your fingers at both lower ends of the grille panel, and lift forward; if the grille seems to catch partway through its movement, continue lifting upward to remove.
- ② Pull past the intermediate catch and open the Intake Grille wide so that it becomes horizontal.



2. Unlock the Intake Grille.

Hold the Intake Grille with one hand and pull the Knobs on the right and the left all the way to unlock the Intake Grille.



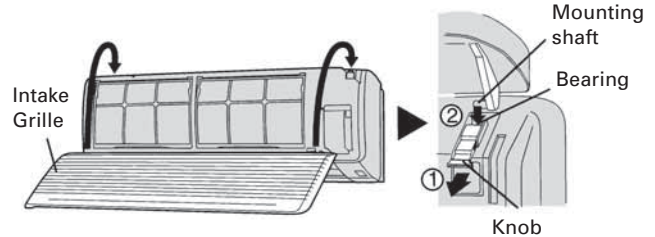
Raise the horizontal Intake Grille to remove it.

3. Clean with water.

Remove dust with a vacuum cleaner: wipe the unit with warm water, then dry with a clean, soft cloth.

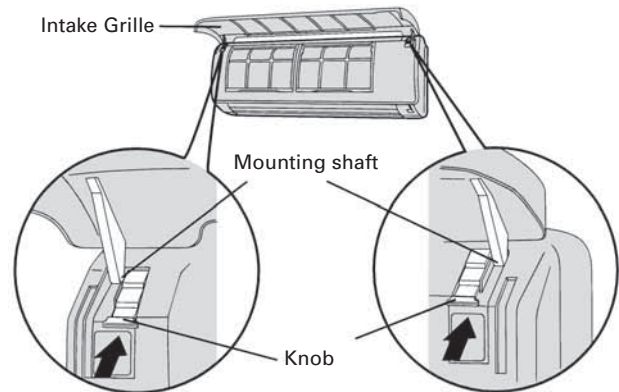
4. Set the mounting shaft of the Intake Grille into the bearings at the top of the panel.

- ① Pull the Knobs all the way.
- ② Hold the grille horizontal and set the left and right mounting shafts into the bearings at the top of the panel.



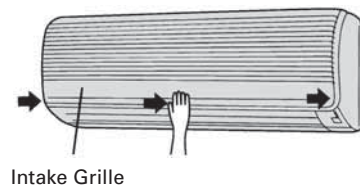
5. Lock the Intake Grille.

Hold the Intake Grille with one hand and push the Knobs on the right and the left all the way in to lock the Intake Grille mounting shafts.



6. Close the Intake Grille.

Push the lower edge of the Intake Grille at both ends and at the center to close it.



CAUTION!

Do not operate with open Intake Grille, as this can cause accidents.

TROUBLESHOOTING

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).



In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the circuit 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 your circuit breaker to ensure that power is completely off.

Before requesting service, perform the following checks:

	Symptom	Problem	See Page
NORMAL FUNCTION	Doesn't operate immediately:	<ul style="list-style-type: none"> ● 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. ● 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. 	—
	Noise is heard:	<ul style="list-style-type: none"> ● 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). ● 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. 	—
		*● During Heating operation, a swoosh sound may be heard occasionally. This sound is produced by the Automatic Defrosting operation.	15
	Odor:	<ul style="list-style-type: none"> ● Occasionally an odor may be emitted from the indoor unit. This may be the result of room odors (furniture, tobacco, etc.) which have been taken into the air conditioner. 	—
	Mist or steam are emitted:	<ul style="list-style-type: none"> ● During Cooling or Dry 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. 	—
		*● During Heating operation, the outdoor unit's fan may stop, and steam may be seen rising from the unit. This is due to Automatic Defrosting operation.	15
	Airflow is weak or stops:	*● When Heating operation is started, fan speed is temporarily very low, to allow internal parts to warm up.	—
		*● During Heating operation, 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.	
		*● During Heating operation, the unit will temporarily stop operation (between 7 and 15 minutes) as the Automatic Defrosting mode operates. During Automatic Defrosting operation, the OPERATION indicator light will flash.	15
		● The fan may operate at very low speed during Dry operation or when the unit is monitoring the room's temperature.	6
● In the monitor AUTO operation, the fan will operate at very low speed.		6	
Water is produced from the outdoor unit:	*● During Heating operation, water may be produced by the outdoor unit due to Automatic Defrosting operation.	15	

TROUBLESHOOTING

Instructions relating to heating (*) are applicable only to "HEAT & COOL MODEL" (Reverse Cycle).

	Symptom	Items to check	See Page
CHECK ONCE MORE	Doesn't operate at all:	<ul style="list-style-type: none"> ● Has there been a power failure? ● Has a fuse blown out, or a circuit breaker been tripped? 	—
		<ul style="list-style-type: none"> ● Is the timer operating? 	8 to 9
	Poor Cooling (or *Heating) performance:	<ul style="list-style-type: none"> ● Is the air filter dirty? ● Is the air conditioner's intake grille or outlet port blocked? ● Did you adjust the room temperature settings (thermostat) correctly? ● Is there a window or door open? ● In the case of Cooling operation, is a window allowing bright sunlight to enter? (Close the curtains.) ● In the case of Cooling operation, are there heating apparatus and computers inside the room, or are there too many people in the room? 	—
	The unit operates differently from the remote control unit's setting:	<ul style="list-style-type: none"> ● Are the remote control unit's batteries dead? ● Are the remote control unit's batteries loaded properly? 	5

If the problem persists after performing these checks, or if you notice burning smells, or the TIMER indicator light flashes, immediately stop operation, disconnect the power supply, and consult authorized service personnel.

OPERATING TIPS

Temperature and Humidity Range

		Cooling and Dry Mode
Indoor temperature	Maximum	95 °F DB / 71 °F WB
	Minimum	64 °F DB / 55 °F WB
Outdoor temperature	Maximum	115 °F DB
	Minimum	32 °F DB
Indoor humidity	Outdoor Temperature 68 °F or above	About 80 % or less If the unit is used for long periods under high-humidity conditions, condensation may form on the surface of the indoor unit, and drip onto the floor or other objects underneath.
	Outdoor Temperature below 68 °F	About 50 % or less If the unit is used for long periods under high-humidity conditions, condensation may form on the surface of the indoor unit, and drip onto the floor or other objects underneath.

DB : Dry Bulb Temperature

WB : Wet Bulb Temperature

- If the air conditioner is used under higher temperature conditions than those listed, the built-in protection circuit may operate to prevent internal circuit damage. Also, during Cooling and Dry modes, if the unit is used under conditions of lower temperature than those listed above, the heat-exchanger may freeze, leading to water leakage and other damage.
- Do not use this unit for any purposes other than the Cooling, Dehumidifying, and air-circulation of rooms in ordinary dwellings.