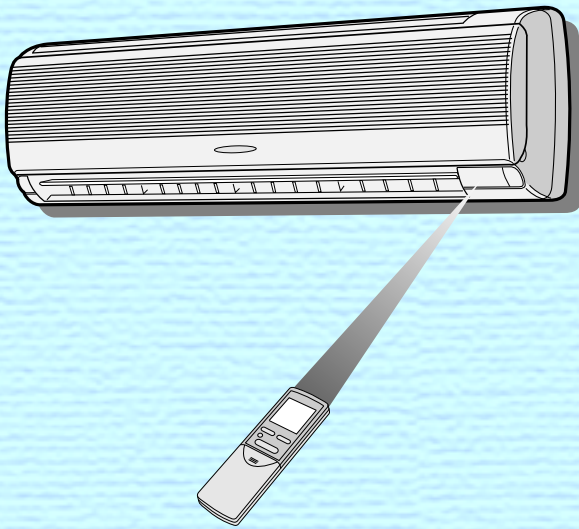


SHARP®

AY-A189E-T AY-A249E-T



**SPLIT TYPE
ROOM AIR CONDITIONER
SPLİT KLİMA**

**OPERATION MANUAL
KULLANMA KILAVUZU**

ENGLISH

TÜRKÇE

**INDOOR UNIT
İÇ ÜNİTE**

**AY-A189E-T
AY-A249E-T**

**OUTDOOR UNIT
DIŞ ÜNİTE**

**AE-A189E
AE-A249E**

Thank you for purchasing a Sharp air conditioner. Please read this manual carefully before operating the product.

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PRECAUTIONS

WARNING

1. Use a power supply with a 220-240 volt ($\pm 10\%$) rating.
Use of a power supply with improper voltage and frequency can result in equipment damage and possible fire.
2. Open a window or door periodically to ventilate the room, especially when using gas appliances.
3. Never insert objects into the unit. Inserting objects can result in injury due to the high speed rotation of internal fans.
4. Do not pull the power cord. Pulling and misuse of the power cord can result in damage to the unit and cause electrical shock.
5. When using the air conditioner in a room where infants, children, elderly people, or bedridden or disabled people are present, make sure the room temperature is suitable for them.
6. Make sure a fuse with the correct current rating is installed.
7. Follow the local rules and regulations for power cord cabling. Improper cable connection can cause the power cord, plug and the electrical outlet to overheat and cause a fire.
8. Use only the manufacturer-specified power cord (parts code; QACC-A158JBE0 AY-A189E-T only) for replacement. Replacement should be performed by a qualified technician or a service person.
9. Before contacting the air conditioner to the public supply system please inform your local supplier, it could be that the air conditioner need a written permission.



This unit is designed for use in residences. Do not use for other applications such as in a kennel or greenhouse to raise animals or grow plants.

LOCATION

- Install the unit in a place with minimal dust, fumes and moisture in the air.

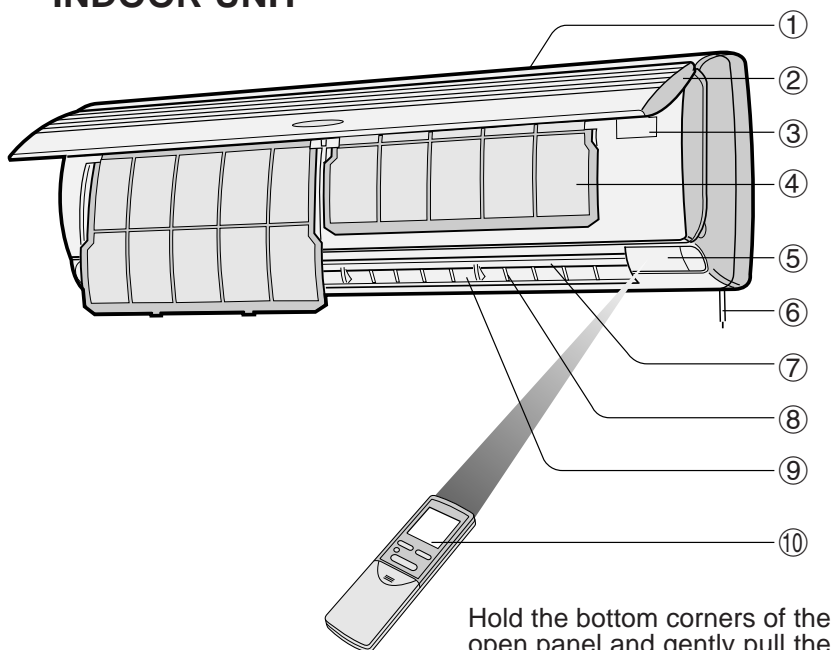
REMOVAL

- Do not attempt to remove the unit. Consult your dealer or other qualified service personnel for the removal of the unit.

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

PART NAMES

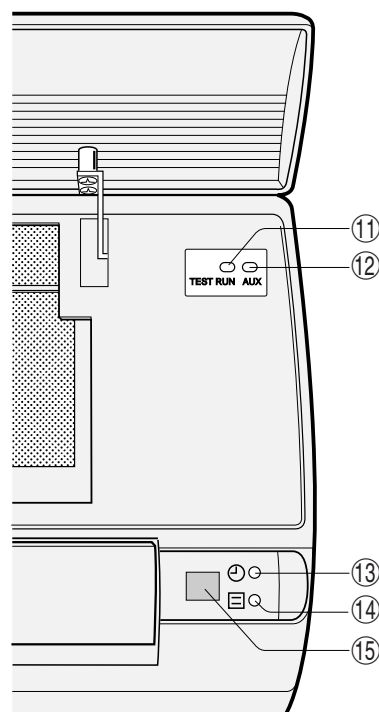
INDOOR UNIT



- ① Inlet (Air)
- ② Open Panel
- ③ Operation panel
- ④ Air Filters
- ⑤ Indicator Panel
- ⑥ Power Supply Cord (AY-A189E-T only)
- ⑦ Vertical Adjustment Louvre
- ⑧ Horizontal Adjustment Louvres
- ⑨ Outlet (Air)
- ⑩ Remote Control

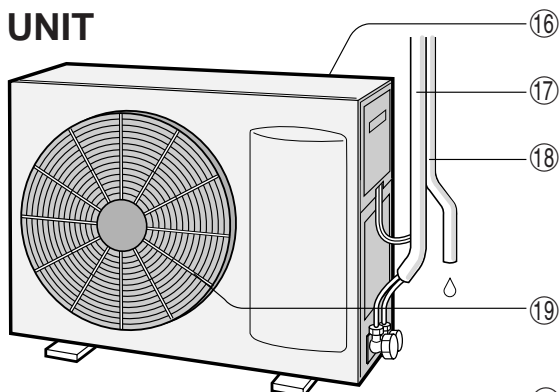
- ⑪ TEST RUN B
- ⑫ AUX. B
- ⑬ TIMER Lamp (Yellow)
- ⑭ OPERATION Lamp (Red)
- ⑮ RECEIVER W

Hold the bottom corners of the open panel and gently pull the panel outwards.

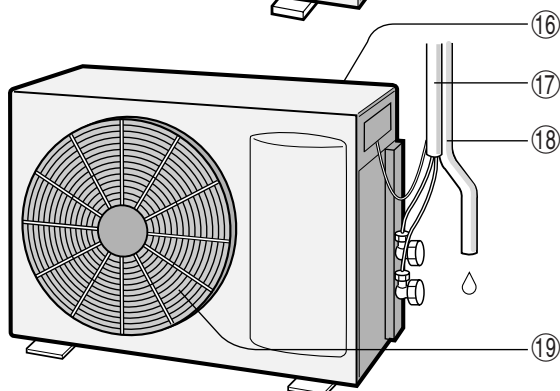


OUTDOOR UNIT

AE-A189E



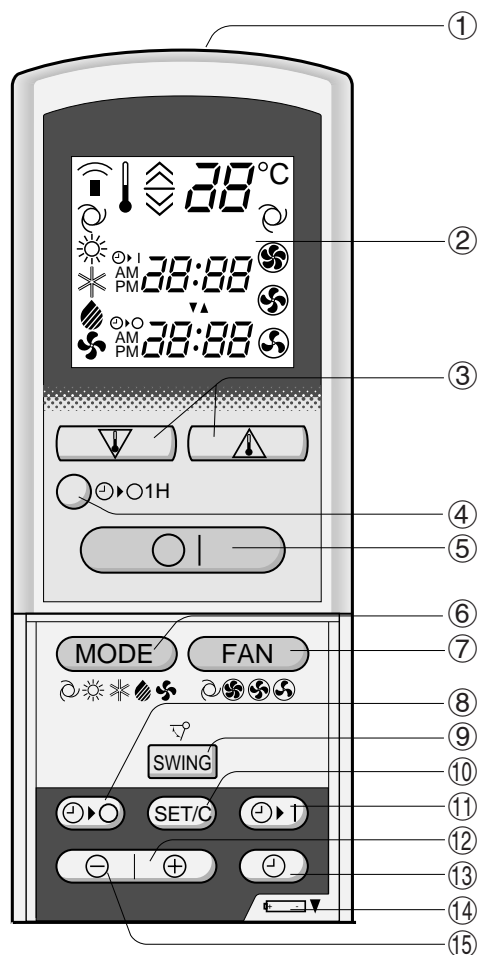
AE-A249E



- ⑬ TEST RUN B
- ⑭ AUX. B
- ⑮ TIMER Lamp (Yellow)
- ⑯ OPERATION Lamp (Red)
- ⑰ RECEIVER W
- ⑰ Inlet (Air)
- ⑱ Refrigerant Tube and Interconnecting Cord
- ⑲ Drainage Hose
- ⑲ Outlet (Air)

NOTE: Actual units may vary slightly from those shown above.

REMOTE CONTROL



- ① TRANSMITTER
- ② DISPLAY (Liquid Crystal Display)
- ③ THERMO. (Thermostat) Button
- ④ ONE-HOUR OFF TIMER Button
- ⑤ ON/OFF Button
- ⑥ MODE Button
- ⑦ FAN Button
- ⑧ TIMER OFF Button (for setting the timer)
- ⑨ SWING Button
- ⑩ TIMER SET/CANCEL Button
- ⑪ TIMER ON Button (for setting the timer)
- ⑫ TIME ADVANCE Button
- ⑬ CLOCK Button
- ⑭ Indicates BATTERY COMPARTMENT is below this mark
- ⑮ TIME REVERSE Button

L.C.D. REMOTE CONTROL DISPLAY

- ⑯ THERMOSTAT SETTING FOR AUTO AND DRY MODES
- ⑰ TEMPERATURE SYMBOL
- ⑱ TRANSMITTING SYMBOL
- ⑲ MODE SYMBOLS

☉ :AUTO

☼ :DRY

☀ :HEAT

☼ :FAN ONLY

☼ :COOL

- ⑳ TEMPERATURE INDICATOR

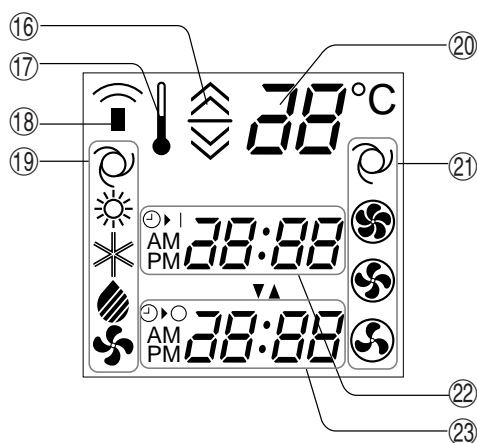
- ㉑ FAN SPEED SYMBOLS

☉ :AUTO

☼ :LOW

☼ :HIGH

☼ :SOFT



- ㉒ TIMER ON INDICATOR/CLOCK

Indicates the on timer preset time or current time.

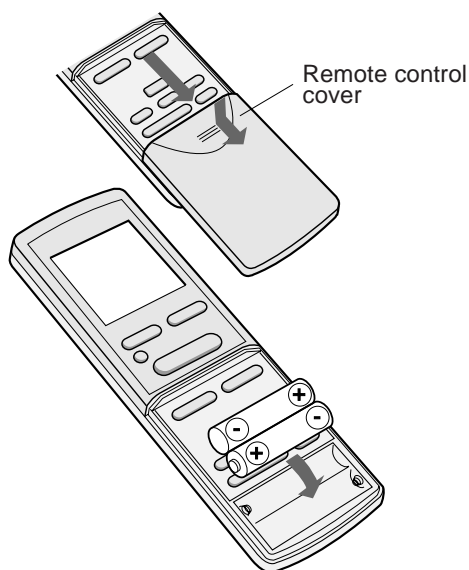
- ㉓ TIMER OFF INDICATOR

Indicates the preset time for off timer or one-hour off timer.

USING THE REMOTE CONTROL

INSTALLING BATTERIES Use two size-AAA (R03) batteries.

- 1 Remove the remote control cover.
- 2 Insert batteries in the compartment, making sure the \oplus and \ominus polarities are correctly aligned.
 - The display indicates "AM 6:00" when batteries are properly installed.
- 3 Reinstall the cover.



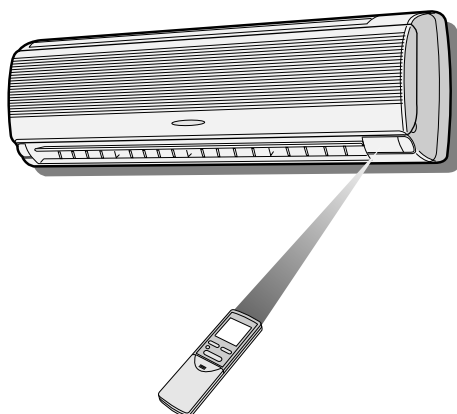
NOTES:

- The battery life is approximately one year in normal use.
- When you replace the batteries, always change both batteries, and make sure they are the same type.
- If the remote control does not operate properly after replacing the batteries, take out the batteries and reinstall them again after 30 seconds.
- If you will not be using the unit for a long time, remove the batteries from the remote control.

HOW TO USE THE REMOTE CONTROL

Point the remote control towards the unit's signal receiver window and press the desired button. The unit generates a beep when it receives the signal.

- Make sure there is no curtain or other object between the remote control and the unit.
- The remote control can send signals from up to 7 metres away.



CAUTION

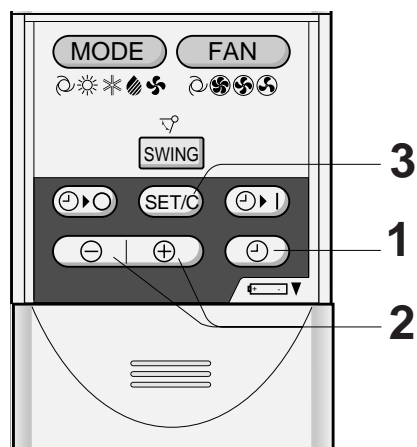
- Do not allow the signal receiver window to receive strong direct sunlight, since it can adversely affect its operation. If the signal receiver window is exposed to direct sunlight, close a curtain to block the light.
- Using a fluorescent lamp with a quick starter in the same room may interfere with transmission of the signal.
- The unit can be affected by signals transmitted from the remote control of a television, VCR or other equipment used in the same room.
- Do not leave the remote control in direct sunlight or near a heater. Also, protect the unit and remote control from moisture and shock which can discolour or damage them.

SETTING THE CURRENT CLOCK TIME

There are two clock modes: 12-hour mode and 24-hour mode.

Example: 5 o'clock in the afternoon

Clock	Display
12-hour mode	PM 5:00
24-hour mode	17:00

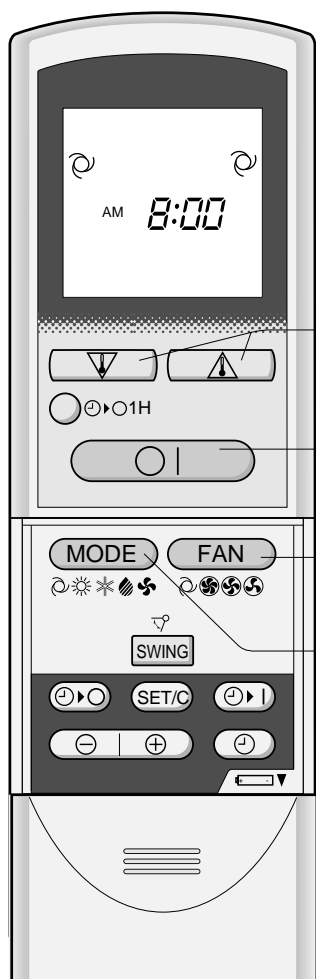


- 1 To set to the 12-hour mode, press the CLOCK button once in the first step.
To set to the 24-hour mode, press the CLOCK button twice in the first step.
- 2 Press the TIME ADVANCE or REVERSE button to set the current time.
 - Keep the button pressed to advance or reverse the time display quickly.
- 3 Press the SET/C button.
 - The colon (:) blinks to indicate that the clock is functioning.

NOTE:

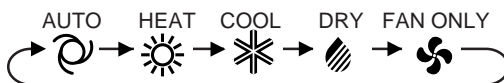
- The current time cannot be set when the timer is operating.

BASIC OPERATION



1

Press the MODE button to select the operation mode.



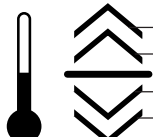
2

Press the ON/OFF button to start operation.

- The red OPERATION lamp () on the unit will light.

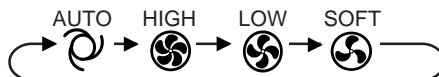
3

Press the THERMO. button to set the desired temperature.

- In the AUTO and DRY mode, the indicator bars represent changes in temperature.
 
 - 2°C higher
 - 1°C higher
 - 1°C lower
 - 2°C lower
- In the COOL and HEAT mode, the temperature can be set within the range of 18 to 32 °C.
- In the FAN ONLY mode, the temperature setting cannot be made.

4

Press the FAN button to set the desired fan speed.



- In the DRY mode, the fan speed cannot be changed.
- In the FAN ONLY mode, the fan speed cannot be set to AUTO.

5

To turn off the unit, press the ON/OFF button again.

- The red OPERATION lamp () on the unit will turn off.

TIPS ABOUT AUTO MODE

In the AUTO mode, the temperature setting and mode are automatically selected according to the room temperature when the unit is turned on.

Room temp. at operation start-up	Automatic Operation	
	Mode	Thermostat Setting
Below 21°C	HEAT	23°C
21°C-24°C	DRY	Room Temp. at start-up
24°C-26°C	COOL	24°C
26°C-28°C	COOL	25°C
Above 28°C	COOL	26°C

ADJUSTING THE AIR FLOW DIRECTION

VERTICAL AIR FLOW

The air flow direction is automatically preset in each mode as follows for optimum comfort:

COOL and DRY mode	Horizontal air flow
FAN ONLY and HEAT mode	Diagonal air flow

HOW TO ADJUST THE AIR FLOW DIRECTION

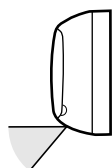
Press the SWING button on the remote control once.

- The vertical adjustment louvre will change its angle continuously within the range shown in the diagram.

Press the SWING button again when the vertical adjustment louvre is at the desired position. The louvre will stop moving when the button is pressed.

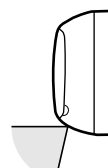
Adjustment range

COOL and DRY mode



The adjustment range is narrow in order to prevent condensation from dripping.

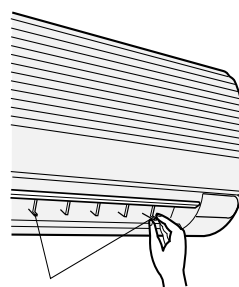
FAN ONLY and HEAT mode



The range is wide so the air flow can be directed toward the floor.

HORIZONTAL AIR FLOW

Hold the horizontal adjustment louvre levers as shown in the diagram and adjust the air flow direction. There are three louvre levers.



Louvre levers



CAUTION

Never attempt to adjust the vertical adjustment louvre manually.

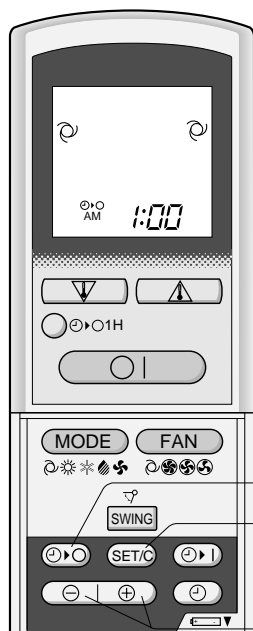
- Manual adjustment of the vertical adjustment louvre can cause the unit to malfunction when the remote control is used for the adjustment.
- When the vertical adjustment louvre is positioned at the lowest position in the COOL or DRY mode for an extended period of time, condensation may result.



TIMER OPERATION

NOTE:

Before setting the timer, make sure the clock is properly set with the current time.

TIMER OFF



- 1 Press the TIMER OFF () button.
- 2 The TIMER OFF indicator will blink; press the TIME ADVANCE or REVERSE buttons to set the desired time. (The time can be set in 10-minute increments.)
- 3 Point the remote control at the signal receiver window on the unit and press the TIMER SET (SET/C) button.
 - The yellow TIMER lamp () on the unit will light.
 - The unit will generate a beep when it receives the signal.

ENGLISH

TIPS ABOUT TIMER OFF OPERATION

When the TIMER OFF mode is set, the temperature setting is automatically adjusted to prevent the room from becoming excessively hot or too cold while you sleep. (Auto Sleep function)

COOL/DRY MODE:

- One hour after the timer operation begins, the temperature setting rises 1°C higher than the original thermostat setting.

HEAT MODE:


- One hour after the timer operation begins, the temperature setting drops 3°C lower than the original thermostat setting.

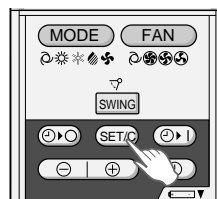
NOTES:

- The Auto Sleep function will not activate during the FAN ONLY mode.
- The temperature setting cannot be adjusted during the FAN ONLY mode.

TO CANCEL TIMER MODE

Press the TIMER CANCEL (SET/C) button.

- The yellow TIMER lamp () on the unit will turn off.
- The current clock time will be displayed on the remote control.



NOTE:

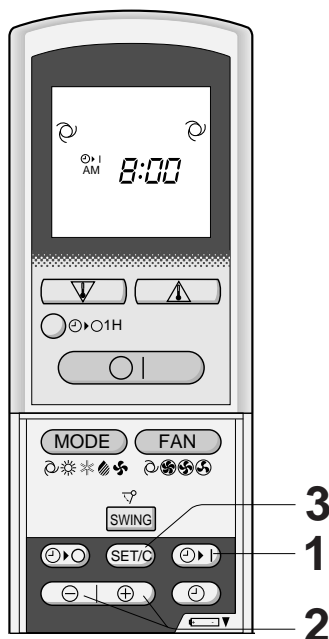
- If both TIMER ON and TIMER OFF are set, the TIMER CANCEL button cancels both settings.

TO CHANGE TIMER SETTING

Cancel the TIMER setting first, then set it again.

TIMER OPERATION

TIMER ON



- 1** Press the TIMER ON () button.
- 2** The TIMER ON indicator will blink. Press the TIME ADVANCE or REVERSE button to set the desired time. (The time can be set in 10-minute increments.)
- 3** Point the remote control at the signal receiver window on the unit and press the TIMER SET (SET/C) button.
 - The yellow TIMER lamp () on the unit will light.
 - The unit will generate a beep when it receives the signal.
- 4** Select the operation condition.
 - The unit will turn on prior to the set time to allow the room to reach the desired temperature by the programmed time. (Awaking function)

COMBINED USE OF ON AND OFF TIMERS

You can use the ON and OFF timers in combination.



Example:

To stop operation at 11:00 p.m. and resume operation (with the same mode and temperature settings) to bring the room temperature to the desired level by 7:00 a.m.

- 1** Set the TIMER OFF to 11:00 p.m. during operation.
- 2** Set the TIMER ON to 7:00 a.m.

The arrow (▼ or ▲) between the TIMER ON indicator and the TIMER OFF indicator shows which timer will activate first.


NOTES:

- You cannot programme the TIMER ON and TIMER OFF to operate the unit at different temperatures or other settings.
- Either timer can be programmed to activate prior the other.

ONE-HOUR OFF TIMER

When the ONE-HOUR OFF TIMER is set, the unit will stop operating after one hour.



- 1 Press the ONE-HOUR OFF TIMER button.
 - The remote control displays "1 H".
 - The unit will stop operating after one hour.
- 2 To turn off the unit within an hour before the ONE-HOUR OFF TIMER activates, press the ON/OFF button.
 - The OPERATION lamp () on the unit will turn off.

If you wish to operate the unit for another hour before the ONE-HOUR OFF TIMER activates, press the ONE-HOUR OFF TIMER button again during operation.

NOTE:

- The ONE-HOUR OFF TIMER operation has priority over TIMER ON and TIMER OFF operations.


ENGLISH

AUXILIARY MODE

Use this mode when the remote control is not available.

TO TURN ON

Lift the front panel of the indoor unit and press the AUX. button on the operation panel.

- The red OPERATION lamp () on the unit will light up and the unit will start operating in the AUTO mode.
- The fan speed and temperature setting are set to AUTO.

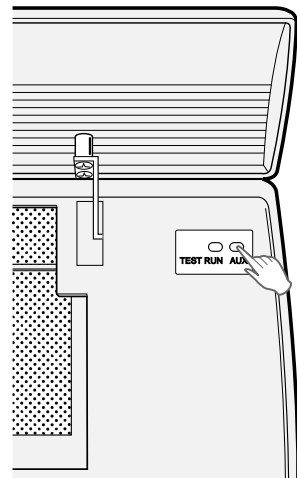
TO TURN OFF

Press the AUX. button on the operation panel again.

- The red OPERATION lamp () on the unit will turn off.

NOTE:

- If the AUX. button is pressed during normal operation, the unit will turn off.




TEST RUN MODE

Use the test run mode only for a test operation. Do not use the test run mode for other than operation testing since the thermostat control is inactive in this mode and the unit remains in continuous operation.

Make sure the unit is turned off before conducting a test run.

TO TURN ON

Lift the front panel of the indoor unit and press the TEST RUN button on the operation panel.

- The red OPERATION lamp () on the unit will blink and the unit will start operating in the COOL mode.
- The temperature setting is not set. (the compressor runs continuously.)

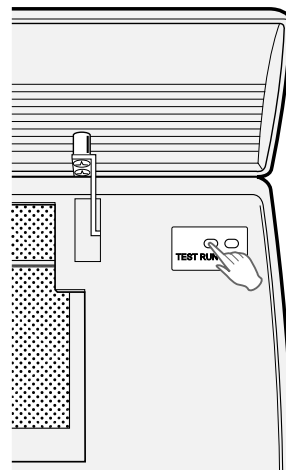
TO TURN OFF

Press the AUX. button on the operation panel again.

- The red OPERATION lamp () on the unit will turn off.

NOTE:

- To conduct a heat mode test run, press the MODE button on the remote controller to set the unit in the HEAT mode.



ADDITIONAL NOTES ON OPERATION

OPERATING TEMPERATURE RANGE

		INDOOR TEMP.	OUTDOOR TEMP.
COOLING	upper limit	32°C D.B. 23°C W.B.	43°C D.B. -
	lower limit	21°C D.B. 15°C W.B.	21°C D.B. -
HEATING	upper limit	27°C D.B. -	24°C D.B. 18°C W.B.
	lower limit	20°C D.B. -	-8.5°C D.B. -9.5°C W.B.

D.B. = Dry-bulb W.B. = Wet-bulb

- The built-in protective device may prevent the unit from operating when used out of this range.
- Condensation may form on the air outlet if the unit operates continuously in the COOL or DRY mode when humidity is over 80 percent.

WHEN A POWER FAILURE OCCURS

This air conditioner has a memory function to store settings when a power failure occurs. After power recovery, the unit will automatically re-start in the same settings which were active before the power failure, except for timer settings. If the timers were set before a power failure, they will need to be re-set after power recovery.

PREHEATING FUNCTION

In the HEAT operation, the indoor fan may not start for two to five minutes after the unit is turned on to prevent cold air from blowing out of the unit.

DE-ICING FUNCTION

- When ice forms on the heat exchanger in the outdoor unit during the HEAT operation, the automatic de-icer provides heat for about 5 to 10 minutes to remove the ice. During de-icing, the inside and outside fans stop operating.
- After de-icing is completed, the unit automatically resumes operation in the HEAT mode.

HEATING EFFICIENCY

- The unit uses a heat pump to obtain heat from the outside air and releases it into the room. The outside air temperature therefore greatly affects the heating efficiency.
- If the heating efficiency is reduced due to low outside temperatures, use an additional heater.
- It takes time to warm up and heat the entire room because of the forced air circulation system.

TIPS ON SAVING ENERGY

Below are some simple ways to save energy when you use your air conditioner.

SET THE CORRECT TEMPERATURE

- Setting the thermostat 1°C higher than the desired temperature in the COOL mode and 2°C lower in the HEAT mode will save approximately 10 percent in power consumption.
- Setting the temperature lower than necessary during cooling operation will result in increased power consumption.

BLOCK DIRECT SUNLIGHT AND PREVENT DRAFTS

- Blocking direct sunlight during cooling operation will reduce power consumption.
- Close the windows and doors during cooling operation and heating operation.

SET PROPER AIR FLOW DIRECTION TO OBTAIN THE BEST AIR CIRCULATION

KEEP FILTERS CLEAN TO ENSURE THE MOST EFFICIENT OPERATION

MAKE MOST OF THE TIMER OFF FUNCTION

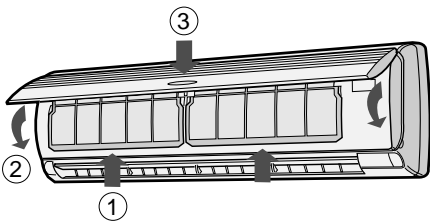
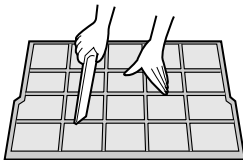
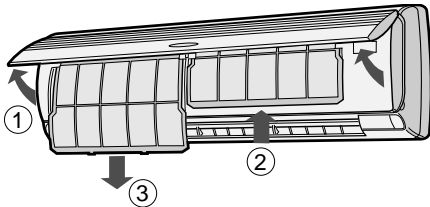
DISCONNECT THE POWER CORD WHEN THE UNIT IS NOT USED FOR AN EXTENDED PERIOD OF TIME

- The indoor unit still consumes a small amount of power when it is not operating.

MAINTENANCE

Be sure to disconnect the power cord from the wall outlet or turn off the circuit breaker before performing any maintenance.

CLEANING THE FILTERS The air filters should be cleaned every two weeks.



1 TURN OFF THE UNIT

2 REMOVE THE FILTERS

- 1 Open the front panel.
- 2 Push the air filters up slightly to unlock them.
- 3 Pull the air filters down to remove them.

3 CLEAN THE FILTERS

Use a vacuum cleaner to remove dust. If the filters are dirty, wash them with warm water and a mild detergent. Dry filters in the shade before reinstalling.

4 REINSTALL THE FILTERS

- 1 Reinstall the filters in the original positions.
- 2 Close the front panel.
- 3 Push the centre part of the panel firmly to lock it in place.

CLEANING THE UNIT AND THE REMOTE CONTROL

- Wipe them with a soft cloth.
- Do not directly splash or pour water on them. Water can cause electrical shock or equipment damage.
- Do not use hot water, thinner, abrasive powders or strong solvents.

MAINTENANCE AFTER AIR CONDITIONER SEASON

- 1 Operate the unit in the FAN ONLY mode for about half a day to allow the mechanism to thoroughly dry.
- 2 Stop the operation and unplug the unit. Turn off the circuit breaker, if you have one exclusively for the air conditioner.
- 3 Clean the filters, then reinstall them.

MAINTENANCE BEFORE AIR CONDITIONER SEASON

- 1 Make sure that the air filters are not dirty.
- 2 Make sure that nothing obstructs the air inlet or outlet.
- 3 Check the outdoor mounting rack periodically for wear and to make sure it is firmly in place.

BEFORE CALLING FOR SERVICE

The following conditions do not denote equipment malfunctions

<p>UNIT DOES NOT OPERATE</p> <p>The unit will not operate if it is turned on immediately after it is turned off. The unit will not operate immediately after the mode is changed. This is to protect the internal mechanisms. Wait 3 minutes before operating the unit.</p>	<p>SWISHING NOISE</p> <p>The soft, swishing noise is the sound of the refrigerant flowing inside the unit.</p>
<p>UNIT DOES NOT SEND OUT WARM AIR</p> <p>The unit is preheating or de-icing.</p>	<p>WATER VAPOUR</p> <ul style="list-style-type: none"> • In the COOL and DRY operation, water vapour can sometimes be seen at the air outlet due to the difference between the room air temperature and the air discharged by the unit. • In the HEAT operation, water vapour may flow out of the outdoor unit during de-icing.
<p>ODORS</p> <p>Carpet and furniture odors that entered into the unit and the air conditioner's inner component odors at the early stage of installation may be sent out from the unit.</p>	
<p>CRACKING NOISE</p> <p>The unit may produce a cracking noise. This sound is generated by the friction of the front panel and other components expanding or connecting due to a temperature change.</p>	

ENGLISH

If the unit appears to be malfunctioning, check the following points before calling for service.

IF THE UNIT FAILS TO OPERATE
<p>Check to see if the circuit breaker has tripped or the fuse has blown.</p>

IF THE UNIT FAILS TO COOL OR HEAT THE ROOM EFFECTIVELY		
<p>Check the filters. If dirty, clean them.</p>	<p>Check the outdoor unit to make sure nothing is blocking the air inlet or outlet.</p>	<p>Check the thermostat is for proper setting.</p>
<p>Make sure windows and doors are closed tightly.</p>	<p>A large number of people in the room can prevent the unit from achieving the desired temperature.</p>	<p>Check whether any heat-generating appliances are operating in the room.</p>

BEFORE CALLING FOR SERVICE

IF THE UNIT FAILS TO RECEIVE THE REMOTE CONTROL SIGNAL

Check whether the remote control batteries have become old and weak.

Try to send the signal again with the remote control pointed properly towards the unit's signal receiver window.

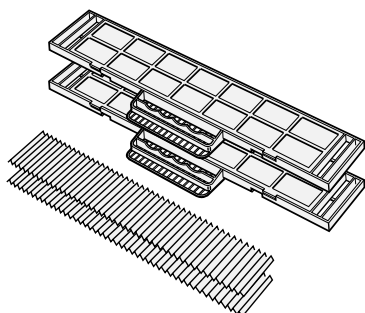
Check whether the remote control batteries are installed with the polarities properly aligned.

OPTION KIT

Air Purifying Filter Unit

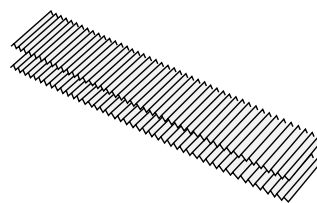
Use of the air purifying filter unit will help remove dust from the air during operation. Contact your dealer for the purchase of this option. Replacement air purifying filters are also available.

Air Purifying Filter Unit



Type AZ-F1859

Replacement Filters



Type AZ-F1809

**SHARP CORPORATION
OSAKA, JAPAN**

Printed in Thailand

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