



TOSHIBA

AIR CONDITIONER

(SPLIT-UNIT WITH WALL-MOUNTED INDOOR UNIT)

Indoor Unit

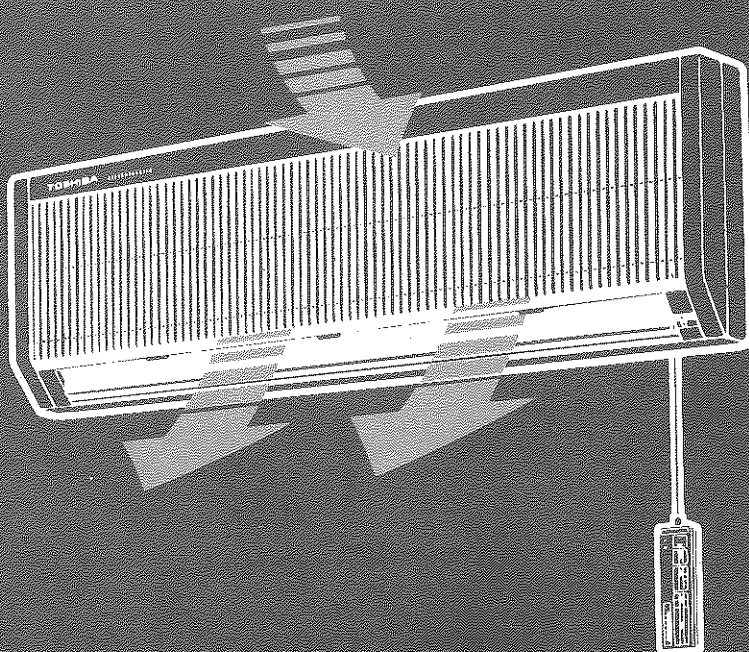
Outdoor Unit

RAV-451KE

RAV-S450E

RAV-711KE

RAV-S710E



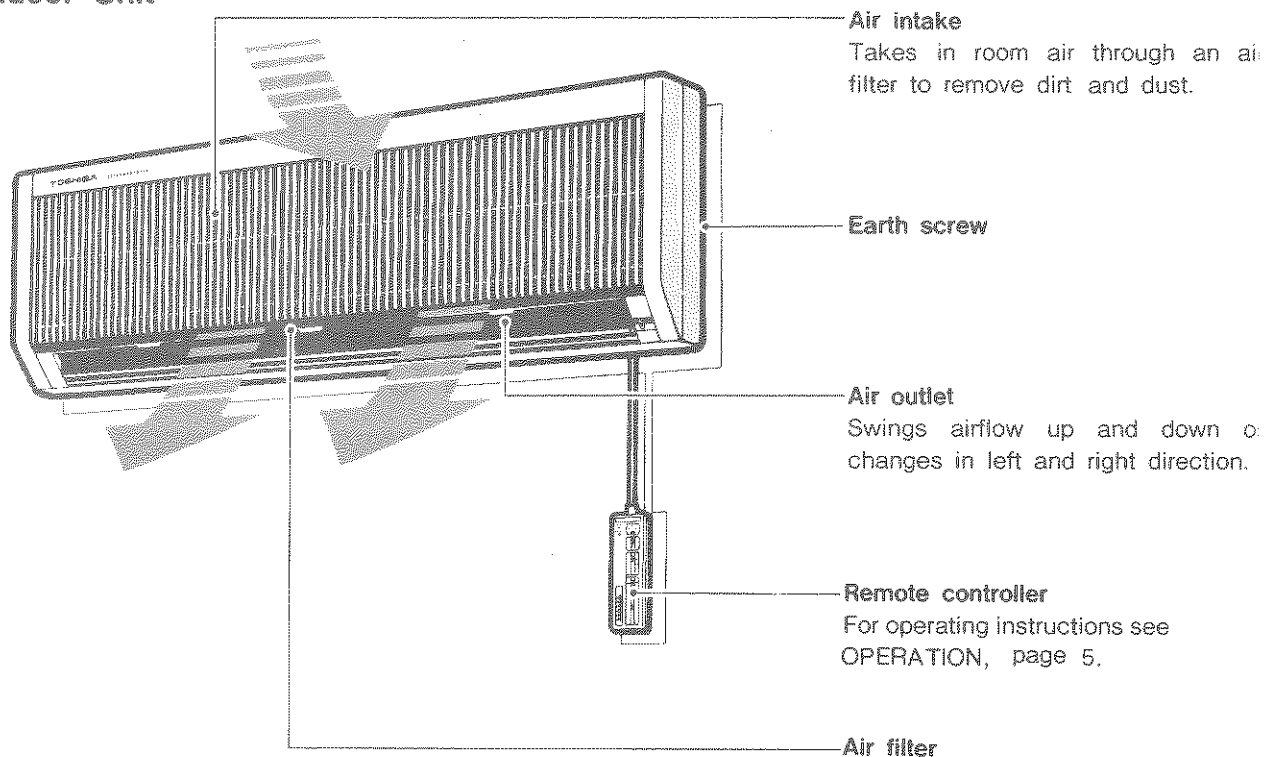
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Thank you very much for your purchase of our TOSHIBA air conditioner. Please read this manual carefully before starting operations with your air conditioner to ensure satisfactory performance. After reading the manual, be sure to keep it with you.

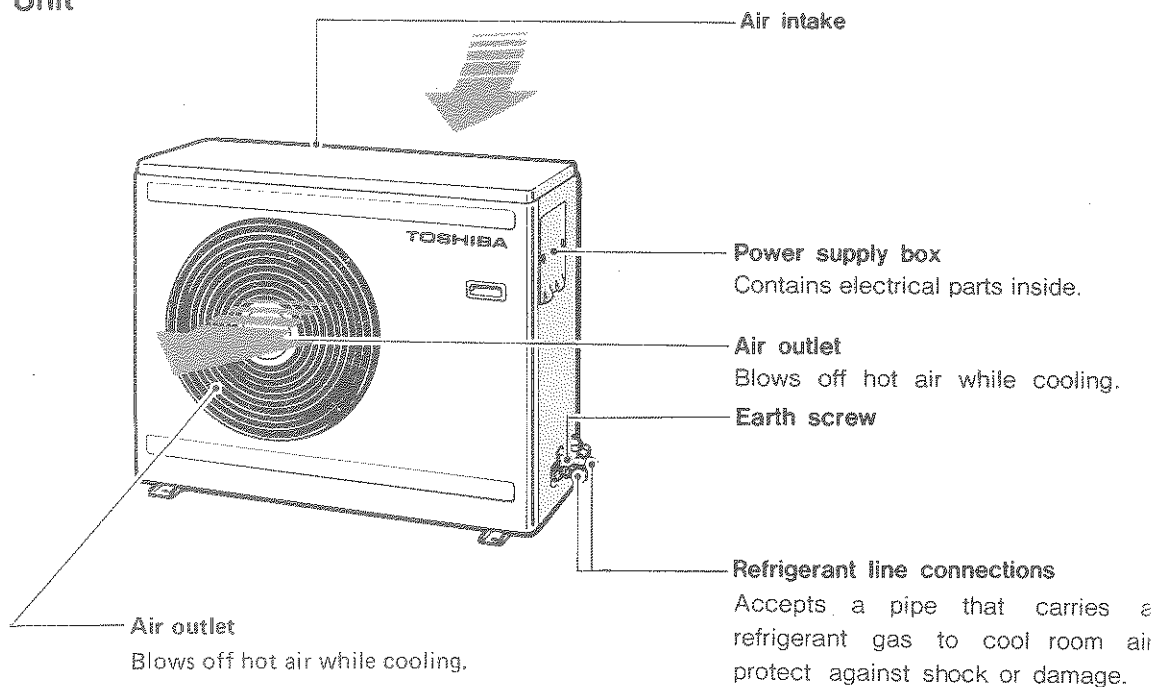
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NAMES AND FUNCTIONS OF COMPONENTS

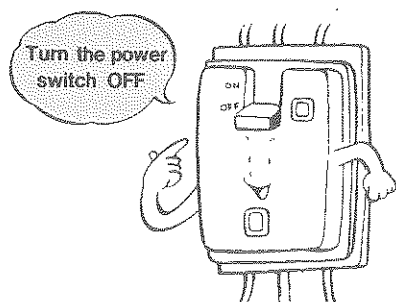
Indoor Unit



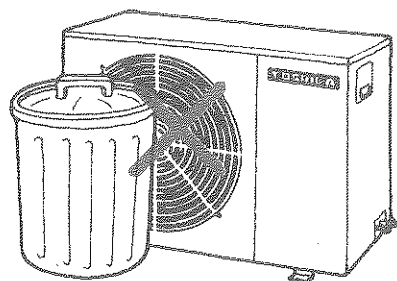
Outdoor Unit



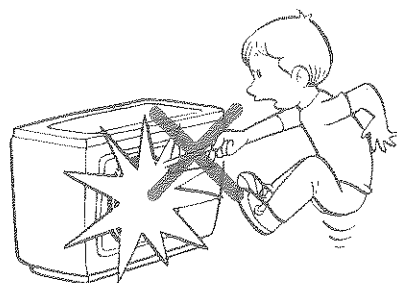
PRECAUTIONS



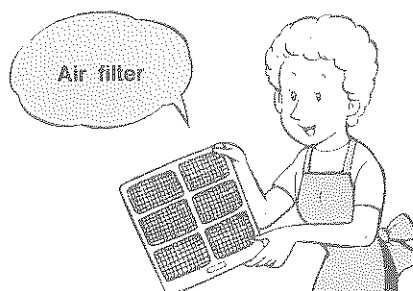
Turn the power switch OFF when servicing the air conditioner or when it is found faulty.



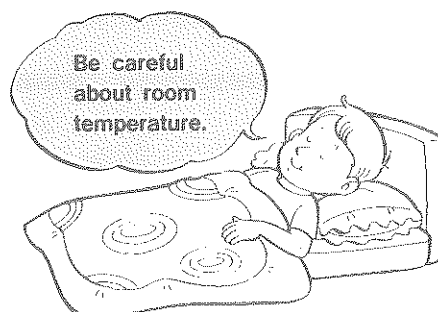
Never obstruct an air inlet or outlet.



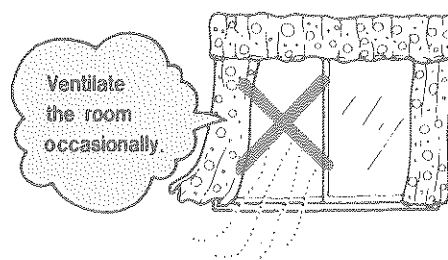
Never poke a rod into an air inlet or outlet.



Be sure the air filter is clean and properly installed.

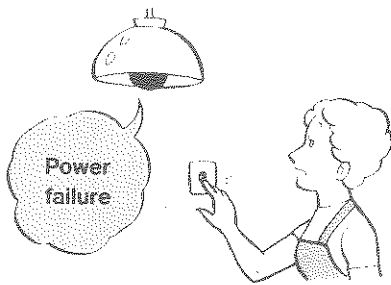


Be sure to maintain a comfortable room temperature, especially if the room is occupied by an elderly or handicapped person, infant, or patient.

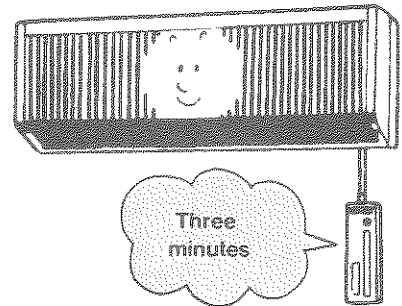


A room is likely to be kept closed when the air conditioner is running. Ventilate the room with fresh air occasionally.

IMPORTANT PRECAUTIONS



If there is a power failure during operation, turn the air conditioner OFF until power is restored.

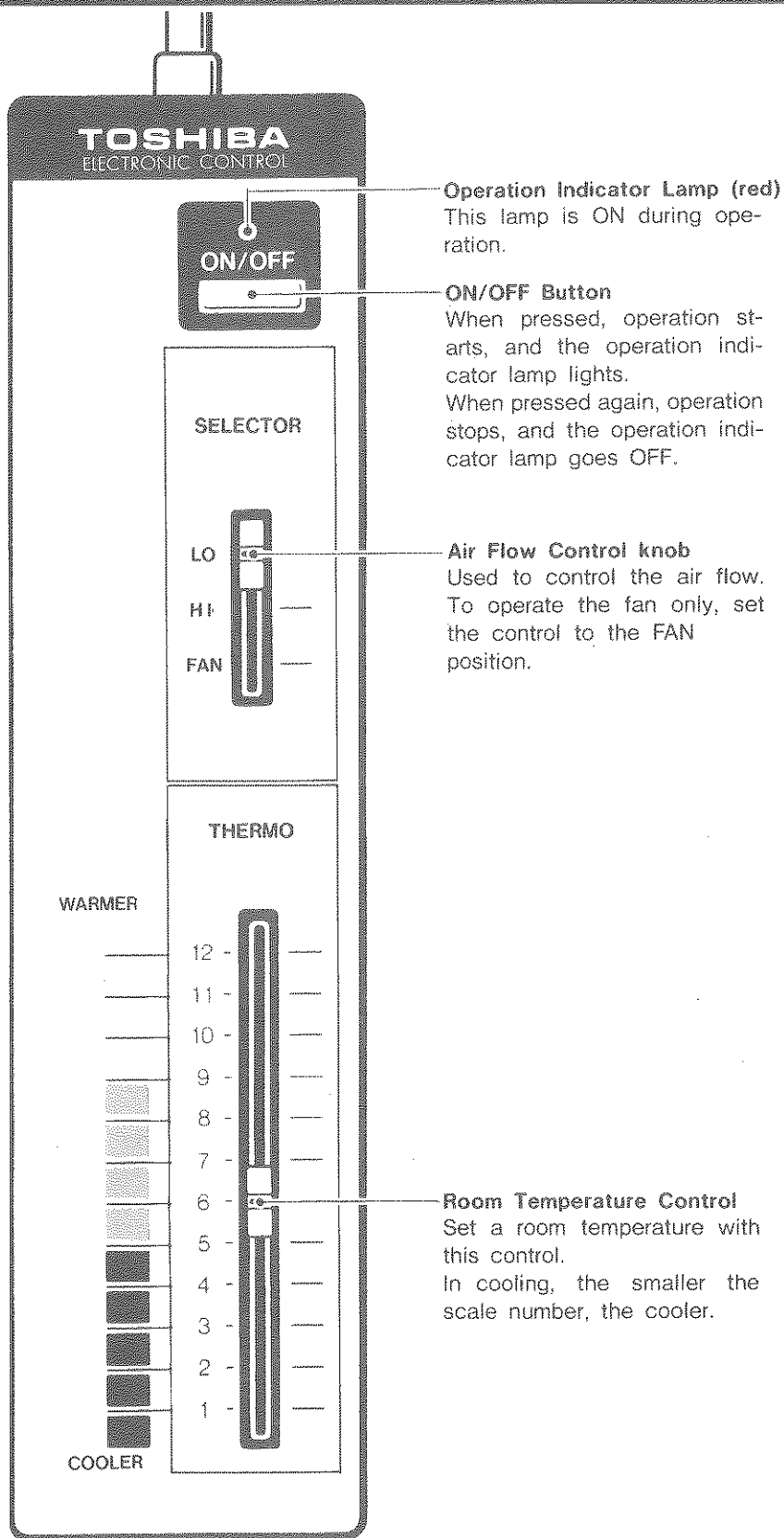


Be sure to wait at least three minutes before restarting the cooling operation. Otherwise, excessive load will be applied to the machine.

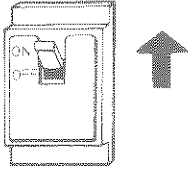
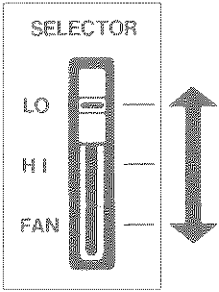

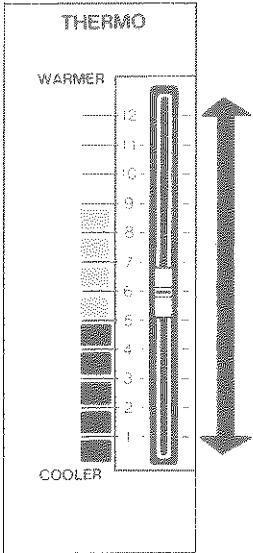
Operate the air conditioner only under these conditions :

Temperature	Outdoor temperature	21~52°C
	Room temperature	21~32°C
Room humidity		Less than 80%

NAMES AND FUNCTIONS OF CONTROLS



OPERATION

	Controls	Cooling	Fan only
1	<p>power switch</p> 	<p>Turn ON the power switch.</p>	<p>Turn ON the power switch.</p>
2	<p>SELECTOR</p> 	<p>Set the air flow control knob to either LO or HI position.</p>	<p>Set the air flow control to FAN position.</p>
3		<p>Press the ON/OFF button.</p>	<p>Press the ON/OFF button.</p>
4	<p>THERMO</p> 	<p>Set the room temperature control to a desired position. The smaller the scale number, the cooler.</p>	<p>In the "fan only" operation, a room temperature cannot be controlled. Therefore, the position of the room temperature control does not matter.</p>
	<p>To stop operation, give another press to the ON/OFF button.</p>		

HOW TO USE LOUVER AND GRILLE

Follow these hints to air condition your room for optimal comfort.

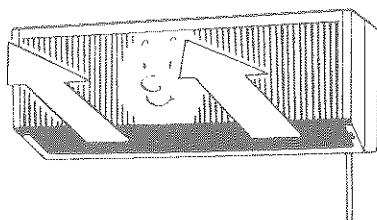
Adjusting Airflow Directions

- **Vertical** Use properly the louver in the case of cooling.

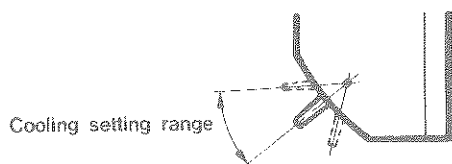
Horizontal blowing

In the case of cooling, be sure to set the louver to blow the air from the front.

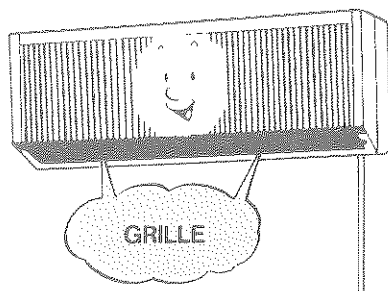
Be sure to have the louver set in the horizontal direction in cooling operation.



- Set the louver in the cooling setting range in cooling operation.
- Condensed dew may be dripped over the grille or louver surfaces during cooling operation with the louvered grille facing downward.



- **Lateral**

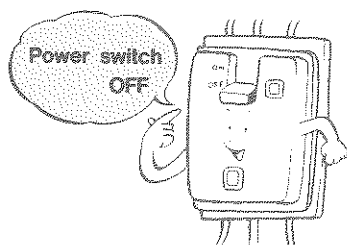


- Adjust the grilles to select the lateral direction of airflow.

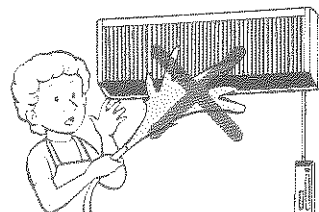
CARE INFORMATION

CAUTIONS

Turn the power switch off before starting to maintain your air conditioner.



To prevent degraded electrical insulation, never try to clean the air conditioner by directly spraying it with water.

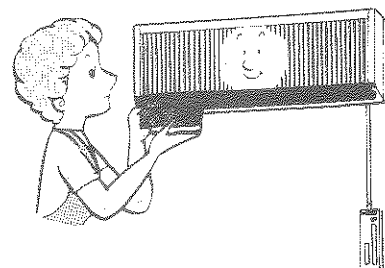


Air Filter Maintenance

Airflow is reduced and cooling efficiency is lost as the air filter is clogged with dust. Clean the filter every two weeks if the air conditioner has been run in an especially dusty place.

● Removing the Air Filter

Pull down filter by holding in the middle. To install, insert it upright until a click sound is heard.

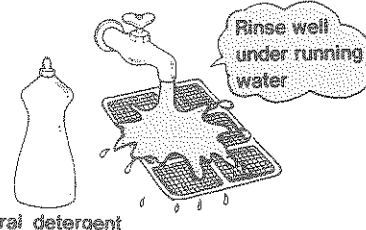
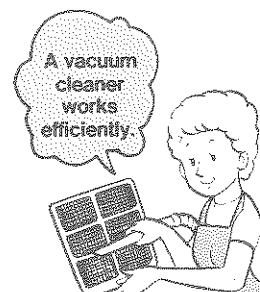


● Cleaning the Air Filter

To remove dust from the air filter, use a vacuum cleaner or tap it lightly. If the filter is very dirty, immerse in lukewarm water or cold water and wash it by moving it up and down. A neutral detergent solution may simplify this work. After washing, rinse the filter with water and leave it in the shade to dry thoroughly.

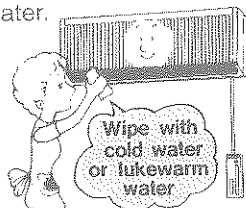
CAUTION

Avoid using hot water at a temperature of 40°C or higher, can cause the filter to be deformed or discolored.



Surface Dirt

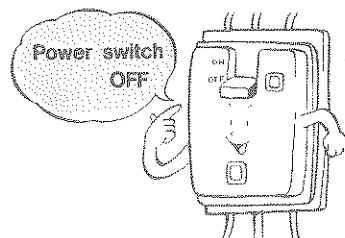
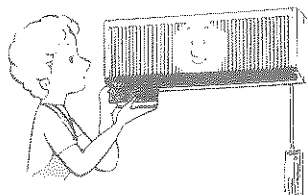
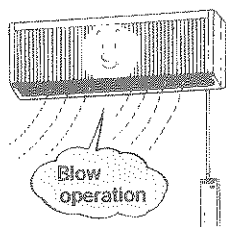
Surface dirt on the grille or cabinet can be easily wiped off with a soft cloth dipped with cold water or lukewarm water at a temperature of 40°C or below, or with neutral detergent solution if extra efficiency is desired. When a neutral detergent has been used, wipe it away thoroughly with a soft cloth wet with water.



CAUTION

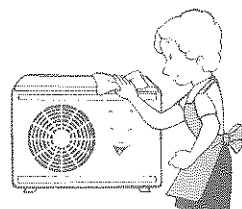
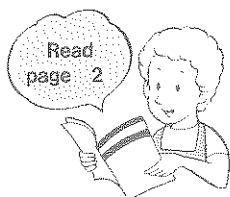
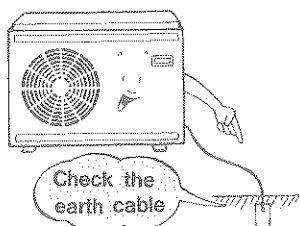
Never use gasoline, benzene, thinner or the like or spray a liquid insecticide on the plastic surfaces. These pharmaceuticals could cause the surface coating to be stripped or the plastic surfaces to be cracked or deformed.

Season End Care



- Leave the air conditioner blowing air for about half a day to allow the interior to dry completely.
- Clean the air filter and install it in original position.
- Turn OFF the power switch.

Season Start Care



- Check the earth cable for any defect.
- Read PRECAUTIONS.
- Remove dust from over the outdoor unit.

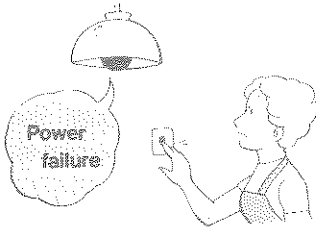
Maintenance Service

Apart from the user explained on pages 7 and 8, maintenance service is suggested, which is available at cost from the dealer from whom your air conditioner was purchased for the interiors of the air conditioner could get dirty, with consequent loss of cooling efficiency, over several seasons of operation.

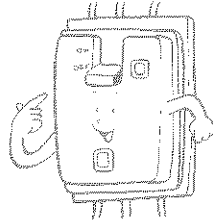
TROUBLESHOOTING

Before requesting service, check the following points.

● If your air conditioner does not run.

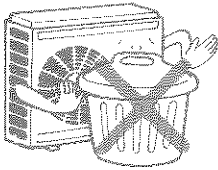


- Suspect a power failure.

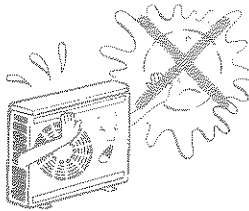


- Power fuse blown or circuit breaker tripped.

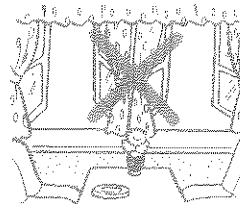
● If your air conditioner blows air but does not cool well.



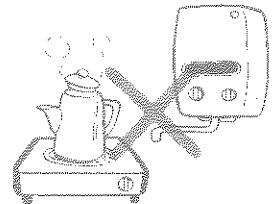
- Outdoor unit air intake or outlet blocked or poorly ventilated.



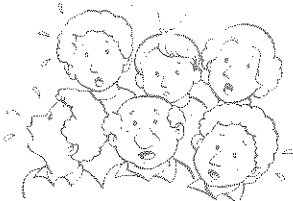
- Outdoor unit overheated under exposure to direct sunlight or heat sources.



- Door or window left open.



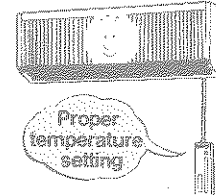
- Heating apparatus, such as a water heater and an oven, used in the room.



- Room overcrowded.



- Air filter clogged with dirt or dust.



- SELECTOR knob at FAN position. With the SELECTOR knob being set at LO or HI at your choice, adjust the Room Temperature Control switch to a lower temperature.

If the problem still exists after all these checkouts, turn OFF the power switch and request diagnostics from the dealer from whom your air conditioner was purchased.

The air conditioner is not customer serviceable.

INSTRUCTIONS FOR EXTENDED SERVICE LIFE

Take notice of the following instructions to use your air conditioner with both safety and comfort over extended time periods.

●LOCATION

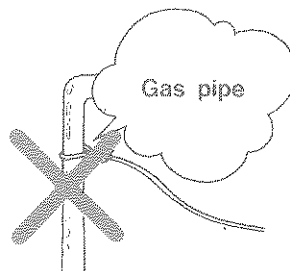
- 1** Install both the indoor and outdoor units on a foundation capable of fully withstanding their weights and vibration.
- 2** Allow sufficient space around the air intake and outlet to provide adequate ventilation.
- 3** Your air conditioner removes moisture from room air when cooling. Allow the water to be drained completely.
- 4** Avoid installing the air conditioner in a place likely to be exposed to an inflammable gas.
- 5** The air conditioner is liable to be accelerated failure when used in certain special environments-such as places containing oils (including machine oils), salt (as on coastal areas), and sulphide gas (as in spa). The air conditioner, when installed in these places, requires special maintenance. Check with your dealer.
- 6** Locate the outdoor unit where its hot air and noise will not cause a nuisance to your neighbors.
- 7** Avoid installing the outdoor unit where strong winds could hit the air outlet.

●WIRING

- 1** Be sure to keep your air conditioner earthed to protect against electrical shock hazards. Check with your dealer for further details.
- 2** Operate the air conditioner from a dedicated power source.
- 3** Law also requires the installation of a circuit breaker. Check with your dealer or an electrical contractor.
- 4** When the power fuse blows out, replace with a fuse with the same rating. Never substitute a wire or copper wire, which could cause a malfunction or even fire.

CAUTIONS

- Where the earth cable is connected to water piping, adequate earthing will not be established if a PVC pipe is used in the course of the piping.
- Never connect the earth cable to a gas pipe.



●RELOCATION

Special techniques are involved in relocating the air conditioner. Relocation service is available at cost from your dealer.



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(E417951801)