

220211A037

Problem	Solution
Water dripping OUTSIDE when unit is cooling.	Unit removing large quantity of moisture from humid room. This is normal during excessively humid days.
Remote Sensing Deactivating Prematurely (some models)	Remote control not located within range. Place remote control within 20 feet & 180°, radius of the front of the unit. Remote control signal obstructed. Remove obstruction.
Room too cold	Set temperature too low. Increase set temperature.

CARE AND CLEANING

CAUTION

Clean your air conditioner occasionally to keep it looking new. **Be sure to unplug the unit before cleaning to prevent shock or fire hazards.**



Air Filter Cleaning

The air filter should be checked at least once a month to see if cleaning is necessary. Trapped particles in the filter can build up and cause an accumulation of frost on the cooling coils.

- Push the vent handle to the Vent Closed position (where applicable).
- Open the front panel.
- Grasp the filter by the center and pull up and out.
- Wash the filter using liquid dishwashing detergent and warm water. Rinse filter thoroughly.
- Gently shake excess water from the filter. Be sure the filter is thoroughly dry before replacing.
- Or, instead of washing you may vacuum the filter clean.

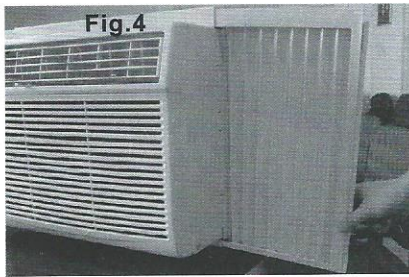
Note: Never use hot water over 40°C(104°F) to clean the air filter. Never attempt to operate the unit without the air filter.

Cabinet Cleaning

- Be sure to unplug the air conditioner to prevent shock or fire hazard. The cabinet and front may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid dishwashing detergent. Rinse thoroughly and wipe dry.
- Never use harsh cleaners, wax or polish on the cabinet front.
- Be sure to wring excess water from the cloth before wiping around the controls. Excess water in or around the controls may cause damage to the air conditioner.
- Plug in air conditioner.

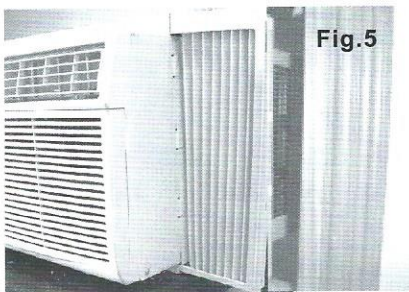
Winter Storage

If you plan to store the air conditioner during the winter, remove it carefully from the window according to the installation instructions. Cover it with plastic or return it to the original carton.

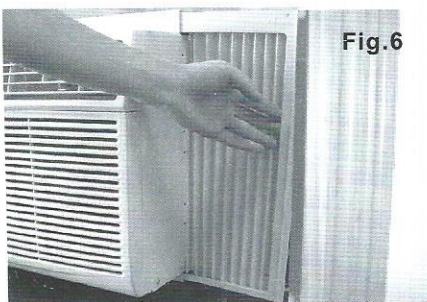


- C. Once the panel has been installed on the side of the cabinet, make sure it sits securely inside the frame channel by making slight adjustments. Slide the top and bottom ends of the frame into the top and bottom rails of the cabinet. Fig.4.
- D. Slide the panel all the way in and repeat on the other side.

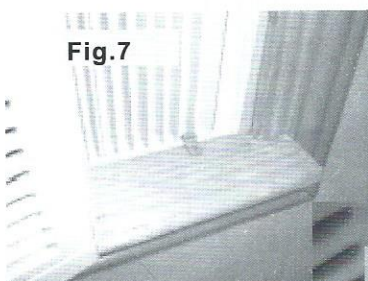
NOTE: If storm window blocks AC, see Fig. 13.



- 2** Keep a firm grip on the air conditioner, carefully place the unit into the window opening so the bottom of the air conditioner frame is against the window sill (Fig.5). Carefully close the window behind the top rail of the unit.



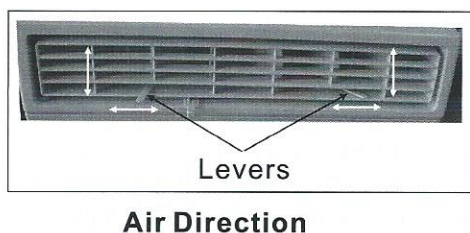
- 3** Extend the side panels out against the window frame (Fig.6).



- 4** Place the frame lock between the frame extensions and the window sill as shown (Fig.7). Drive 3 / 4" (19mm) locking screws through the frame lock and into the sill (Fig.8).

NOTE: To prevent window sill from splitting, drill 1 / 8" (3mm) pilot holes before driving screws.

Air Directional Louvers

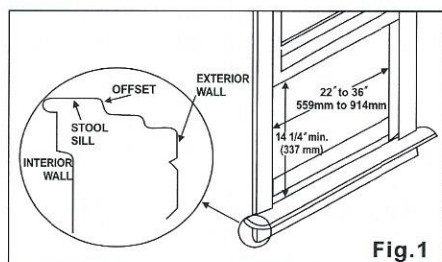


The louvers will allow you to direct the air flow Up or Down and Left or Right throughout the room as needed. Pivot horizontal louvers until the desired Up/Down direction is obtained.

Move the Levers from side to side until the desired Left/Right direction is obtained.

INSTALLATION INSTRUCTIONS

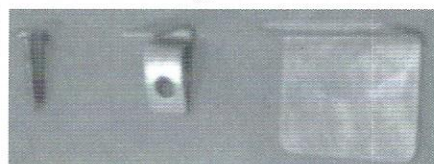
Your air conditioner is designed to install in standard double hung windows with opening widths of 22 to 36 inches (559mm to 914mm) (See Fig.1).



Lower sash must open sufficiently to allow a clear vertical opening of 14-1/2 inches (368mm). Side louvers and the rear of the AC must have clear air space to allow enough airflow through the condenser, for heat removal. The rear of the unit must be outdoors, not inside a building or garage.

NOTE: Save **Carton** and these **Installation Instructions** for future reference. The carton is the best way to store unit during winter, or when not in use.

Mounting Hardware



3/4" Screws (7) Lock Frame (2) Sash Lock (1)

TOOLS NEEDED:

Phillips Screw Driver
Drill (If pilot holes are needed)

CAUTION: When handling unit, be careful to avoid cuts from sharp metal edges and aluminum fins on front and rear coils.

Top Rail Hardware



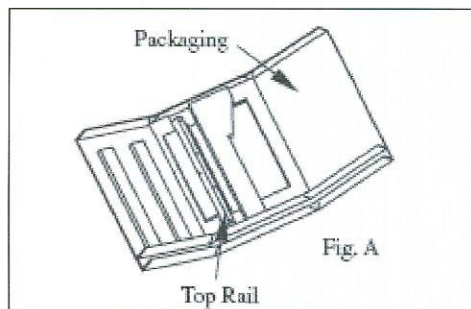
3/8" Screws (4) Top Rail (1)

Before installing unit, the top rail must be assembled on the unit.

Tool Needed: Phillips Screwdriver

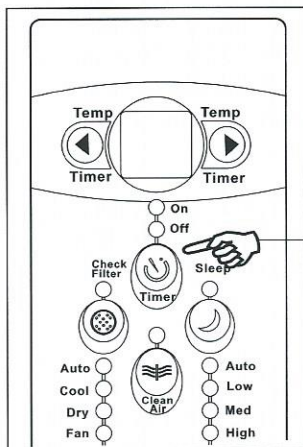
A: Remove the air conditioner from the carton and place on a flat surface.

B: Remove top rail from the bottom of the packaging material as shown in Fig.A



AIR CONDITIONER FEATURES(CONTINUED)

TIMER: AUTO START/ STOP FEATURE:

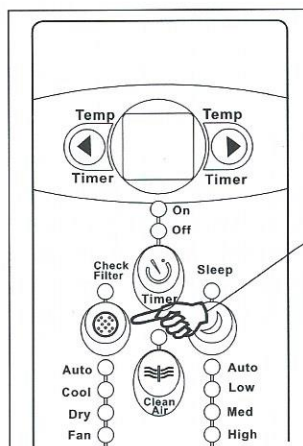


DO THIS:
Press Timer
button

NOTE:

- First press the Timer button, the indicator light besides word On illuminates. It indicates the Auto Start program is initiated.
- Press or hold the Left arrow or Right arrow to change the Auto time by 0.5 hour increments, up to 10 hours, then at 1 hour increments up to 24 hours. The control will count down the time remaining until start.
- The selected time will register in 5 second and the system will automatically revert back to display the previous temperature setting.
- Turning the unit ON or OFF at any time will cancel the Auto Start/Stop function.

CHECK FILTER FEATURE:

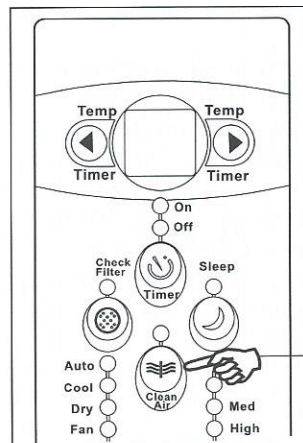


DO THIS:
Press Check
Filter button

NOTE:

This feature is a reminder to clean the Air Filter for more efficient operation. The LED(light) will illuminate after 250 hours of operation. To reset after cleaning the filter, press the Check Filter button and the light will go off.

CLEAN AIR FEATURE: (on some models)



DO THIS:
Press Clean
Air button

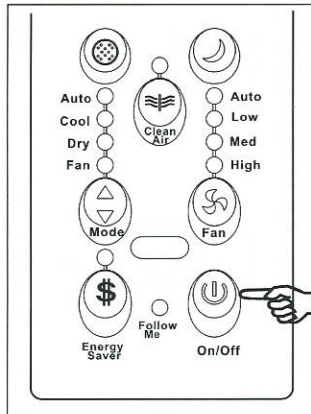
NOTE:

Press the Clean Air button, the ion generator is energized and will help to remove pollen and impurities from the air, and trap them in the filter.

AIR CONDITIONER FEATURES(CONTINUED)

NOTE: The following instructions represent the Unit Controls, the same instructions can be used for the Remote Control.

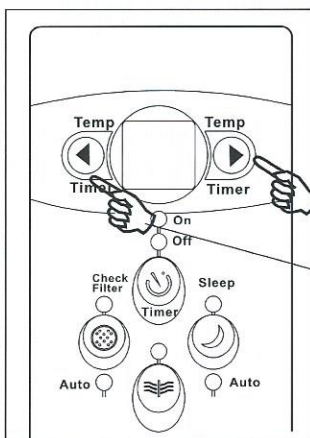
TO TURN UNIT ON:



DO THIS:

Press the On/Off button.

TO CHANGE TEMPERATURE SETTING:



DO THIS:

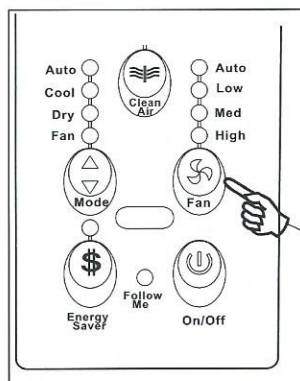
Press to raise

Press to lower

NOTE:

Press or hold either Left (<) or Right (>) button until the desired temperature is seen on the display. This temperature will be automatically maintained anywhere between 62°F (17°C) and 88°F (30°C). If you want the display to read the actual room temperature, see "To Operate on Fan Only" section.

TO ADJUST FAN SPEEDS:



DO THIS:

Press to select appropriate fan speed

NOTE:

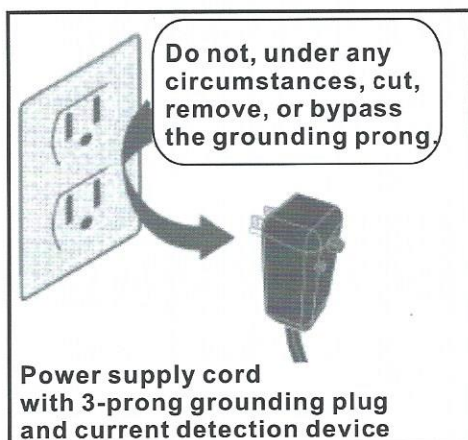
Used to select the Fan Speed in four steps- Auto, Low, Med or High. Each time the button is pressed, the fan speed mode is shifted.

IMPORTANT SAFETY INSTRUCTIONS

NOTE The power supply cord with this air conditioner contains a current detection device designed to reduce the risk of fire.

Please refer to the section 'Operation of Current Device' for details.

In the event that the power supply cord is damaged, it cannot be repaired—it must be replaced with a cord from the Product Manufacturer.



⚠ WARNING For your safety

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Avoid fire hazard or electric shock. Do not use an extension cord or an adaptor plug. Do not remove any prong from the power cord.

⚠ WARNING Electrical Information

- Be sure the electrical service is adequate for the model you have chosen. This information can be found on the serial plate, which is located on the side of the cabinet and behind the grille.
 - Be sure the air conditioner is properly grounded. To minimize shock and fire hazards, proper grounding is important. The power cord is equipped with a three-prong grounding plug for protection against shock hazards.
 - Your air conditioner must be used in a properly grounded wall receptacle. If the wall receptacle you intend to use is not adequately grounded or protected by a time delay fuse or circuit breaker, have a qualified electrician install the proper receptacle.
 - Ensure the receptacle is accessible after the unit installation.
 - Do not run air conditioner without side protective cover in place. This could result in mechanical damage within the air conditioner.
- Do not use an extension cord or an adapter plug.**

Operation of Current Device

The power supply cord contains a current device that senses damage to the power cord. To test your power supply cord do the following:

1. Plug in the Air Conditioner.
2. The power supply cord will have TWO buttons on the plug head. Press the TEST button, you will notice a click as the RESET button pops out.
3. Press the RESET button, again you will notice a click as the button engages.
4. The power supply cord is now supplying electricity to the unit. (On some products this is also indicated by a light on the plug head.)

NOTES:

- Do not use this device to turn the unit on or off.
- Always make sure the RESET button is pushed in for correct operation.
- The power supply must be replaced if it fails reset when either the TEST button is pushed, or it cannot be reset. A new one can be obtained from the product manufacturer.
- If power supply cord is damaged, it cannot be repaired. It **MUST** be replaced by one obtained from the product manufacturer.

Safety Precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed. Incorrect operation due to ignoring of instructions may cause harm or damage. The seriousness is classified by the following indications.

 WARNING	This symbol indicates the possibility of death or serious injury.
 CAUTION	This symbol indicates the possibility of injury or damage to property.

■ Meanings of symbols used in this manual are as shown below.

	Never do this.
	Always do this.

WARNING

Plug in power plug properly.

- Otherwise, it may cause electric shock or fire due to excess heat generation.

Do not operate or stop the unit by inserting or pulling out the power plug.

- It may cause electric shock or fire due to heat generation.

Do not damage or use an unspecified power cord.

- It may cause electric shock or fire.
- If the power cord is damaged, it must be replaced by the manufacturer or an authorised service centre or a similarly qualified person in order to avoid a hazard.

Do not modify power cord length or share the outlet with other appliances.

- It may cause electric shock or fire due to heat generation.

Do not operate with wet hands or in damp environment.

- It may cause electric shock.

Do not direct airflow at room occupants only.

- This could damage your health.

Always ensure effective earthing.

- Incorrect earthing may cause electric shock.

Do not allow water to run into electric parts.

- It may cause failure of machine or electric shock.

Always install circuit breaker and a dedicated power circuit.

- Incorrect installation may cause fire and electric shock.

Unplug the unit if strange sounds, smell, or smoke comes from it.

- It may cause fire and electric shock.

Do not use the socket if it is loose or damaged.

- It may cause fire and electric shock.

Do not open the unit during operation.

- It may cause electric shock.

Keep firearms away.

- It may cause fire.

Do not use the power cord close to heating appliances.

- It may cause fire and electric shock.

Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.

- It may cause an explosion or fire.

Ventilate room before operating air conditioner if there is a gas leakage from another appliance.

- It may cause explosion, fire and, burns.

Do not disassemble or modify unit.

- It may cause failure and electric shock.

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 311

LECTURE 1

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