

TCL

Models

TWAC-06CRA1/L1U(ES)

TWAC-08CRA1/L0U(ES)

TWAC-10CRA1/L0U(ES)

TWAC-12CRA1/L0U(ES)

Electronic Window Air Conditioner

Operating Instructions



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IMPORTANT SAFETY INSTRUCTIONS

Before installing and using your air conditioner, please read this owner's manual carefully. Store this manual in a safe place for future reference. Your safety and the safety of others is very important to us. Please pay attention to all safety messages outlined in this owner's manual.

WARNING: To reduce the risk of fire, electrical shock or injury when using your air conditioner, follow the following basic precautions:

- Plug into a grounded 3 prong outlet.
- Do not remove the ground prong.
- Do not use a plug adapter.
- Do not use an extension cord.
- Unplug the air conditioner before servicing
- Use two or more people to move and install the air conditioner



This is a safety alert symbol.

This symbol alerts you to potential hazards that can harm you or others or even cause death.

All safety messages will directly follow the safety alert symbol and/or the words "DANGER" or "WARNING".

⚠ DANGER

⚠ WARNING

Failure to immediately follow these instructions may cause serious injury or even death.

All Safety messages alert you of potential hazards, how to reduce the chance of injury, and what can happen if instructions are not followed correctly.

ELECTRICAL REQUIREMENTS

⚠ WARNING



Electrical Shock Hazard

Plug into a grounded 3 prong outlet.
Do not remove the ground prong.
Do not use an adapter
Do not use an extension cord.
Failure to follow these instructions can result in death, fire, or electrical shock

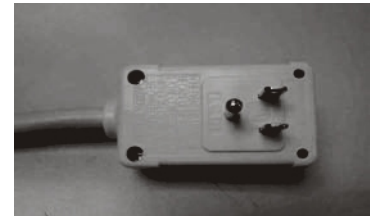
The electrical ratings for your air conditioner are listed on the model and serial number label located on the front left side of the unit (when facing the front).

Specific electrical requirements are listed in the chart below. Follow the requirements below for the type of plug on the power supply cord.

Wiring Requirements

- 115 volt (103 min.—127 max)
- (6K-8K) 0-8 amps
(10K-12K) 0-12 amps
- (6K-8K) 10-amp time-delay fuse or circuit breaker
(10K-12K) 15-amp time-delay fuse or circuit breaker
- Use on single outlet circuit only

Power Supply Cord



Recommended Ground Method

For your personal safety, this air conditioner must be grounded. This air conditioner is equipped with a 3 prong power supply cord with a grounded plug. To minimize the possibility of electrical shock, the cord must be plugged into a 3 prong outlet and grounded in accordance with all local codes and ordinances. If a 3 prong outlet is not available, it is the customer's responsibility to have a properly grounded 3 prong outlet installed by a qualified electrician.

It is the customer's responsibility:

- To contact a qualified electrician
- To assure that the electrical installation is adequate and in conformance with the National Electrical Code, ANSI/NFPA 70 - latest edition, and all local codes and ordinances.

Copies of the standards listed may be obtained from:

National Fire Protection Association
One Batterymarch Park
Quincy, Massachusetts 02269

LCDI Power Cord and Plug

This air conditioner is equipped with an LCDI (Leakage Current Detection and Interruption) power cord that is required by UL. This power supply cord contains state-of-the-art electronics that sense leakage current. If the cord is damaged and leakage occurs, power will be disconnected from the unit.

The test and reset buttons on the LCDI Plug are used to check if the plug is functioning properly. To test the plug:

1. Plug power cord into a grounded 3 prong outlet
2. Press RESET (on some units a green light will turn on).
3. Press the TEST Button, the circuit should trip and cut all power to the air conditioner (on some units a green light may turn off).
4. Press the RESET button for use. You will hear a click and the A/C is not ready for use.


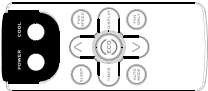
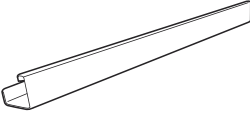



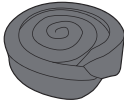


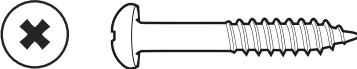
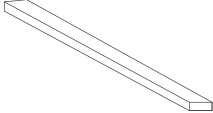

NOTES:

- The RESET button must be engaged for proper use.
- The power supply cord must be replaced if it fails to trip when the TEST button is pressed and the unit fails to reset.
- Do not use the power supply cord as an ON/OFF switch. The power supply cord is designed as a protection device.
- A damaged power supply cord must be replaced with a new power supply cord.
- The power supply cord contains new user serviceable parts. Opening the tamper-resistant case voids all warranty and performance claims.

NOTE: Your units power cord and plug may differ from the one shown.



PACKING LIST

IMAGE	PART	QUANTITY
	Window Air Conditioner	1
	Remote Control	1
	Top Mounting Rail (With sponge)	1
	Lock Frame	2
	Filler Panels (With "Left" & "Right" remark on the front face)	2
	Sash Lock(Two holes)	1
	Window Sash Seal (Sponge)	1
	3/8" Screws (only included with BWAC06WT & BWAC08WT)	4
	1/2" Screws	3
	3/4" Screws	4
	Foam Top Window Gasket (Thin sponge for back-up using)	1
	Insulation strip(Sponge)	2

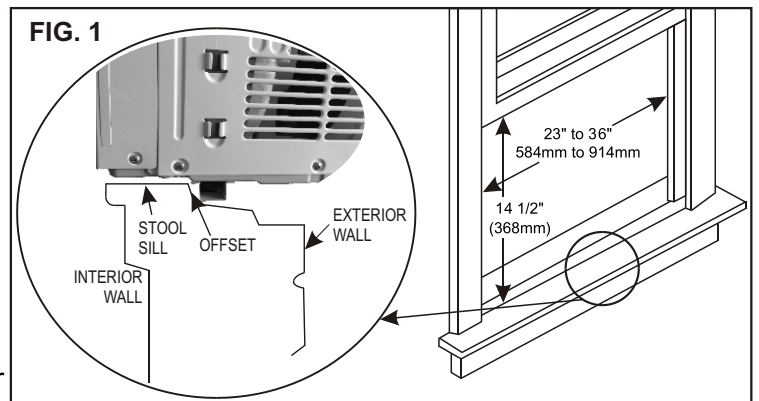
DISCLAIMER

ALL INFORMATION AND THE TECHNICAL SPECIFICATIONS PRESENTED IN THIS USER'S MANUAL ARE THE PRESENTATION OF THE MANUFACTURER.

INSTALLATION & ASSEMBLY INSTRUCTIONS (USED FOR 6K/8K)

Some assembly is required for your new air conditioner. Please read and follow these instructions carefully.

1. This air conditioner is designed to be installed in a standard double-hung window with a window width between 23" and 36" (584 mm - 914 mm).
2. The air conditioner can be installed without the accordion panels to fit in a narrow window opening. See the window dimensions.
3. The Lower Sash (the lower part of the window that moves up and down) must allow for 14.5" of vertical clearance when open. (See FIG. 1).
4. All supporting parts must be secured to firm wood, masonry, or metal.
5. The electrical outlet must be within reach of the power cord.

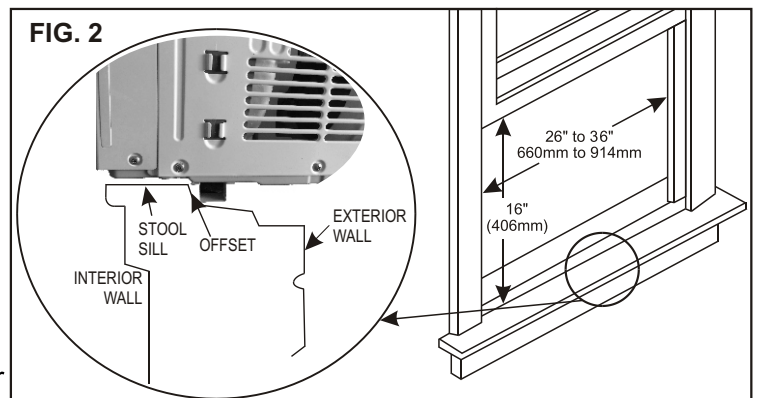


NOTE: Save the product packaging and installation instructions for future reference. Store the air conditioner in the product box when not in use for an extended period of time.

INSTALLATION & ASSEMBLY INSTRUCTIONS (USED FOR 10K/12K)

Some assembly is required for your new air conditioner. Please read and follow these instructions carefully.

1. This air conditioner is designed to be installed in a standard double-hung window with a window width between 26" and 36" (660 mm - 914 mm).
2. The air conditioner can be installed without the accordion panels to fit in a narrow window opening. See the window dimensions.
3. The Lower Sash (the lower part of the window that moves up and down) must allow for 16" of vertical clearance when open. (See FIG. 2).
4. All supporting parts must be secured to firm wood, masonry, or metal.
5. The electrical outlet must be within reach of the power cord.





NOTE: Save the product packaging and installation instructions for future reference. Store the air conditioner in the product box when not in use for an extended period of time.

Top Rail Assembly (Only used for 6K/8K)

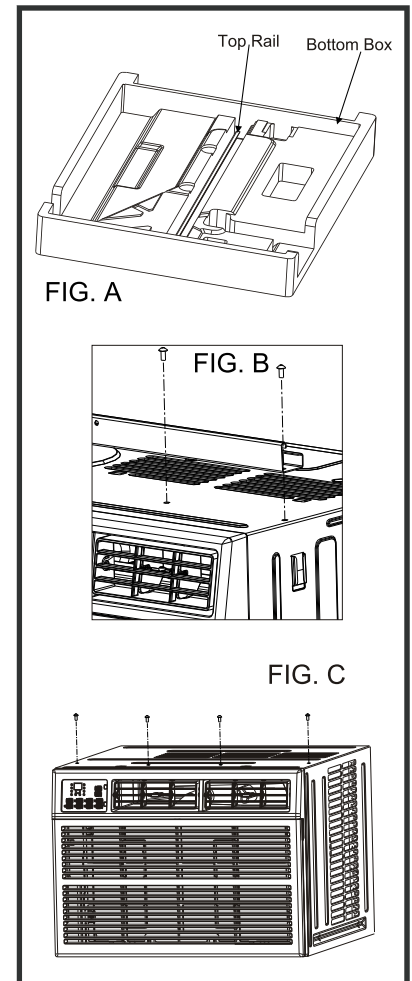
The top rail must be assembled prior to installing the air conditioner in the window

Tools Needed: Phillips Screw Driver

Top Rail Hardware		QTY
	3/8" Screw	4
	Top Rail	1

Attaching the Top Rail to the Air Conditioner

1. Remove the air conditioner from the box and place on a hard flat surface.
2. Remove top rail from the bottom of the packaging material as shown in FIG. A
3. Align the hole in the top rail with those in the top of the unit as shown in FIG. B
4. Secure the top rail to the unit with the 3/8" Screws as shown in FIG. C



NOTE: For safety reasons, all 4 screws must be used to attach the top rail.

CAUTION

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

MOUNTING HARDWARE



3/4" Screws

Qty

4



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.

How to Install

NOTE: Top Rail and Sliding Panels at each side are offset to provide the proper pitch to the rear of (5/16"). This is necessary for proper condensed water utilization and drainage. If you are not using the Side Panels for any reason, this pitch to the rear must be maintained!

1

Place unit on floor, a bench or a table. There is a Left and Right Window Filler Panel - be sure to use the proper panel for each side. When installed the flange for securing the panel in place to the window sill will be facing into the room.

A. Hold the Accordion Panel in one hand and gently pull back the center to free the open end. See Figure 3.

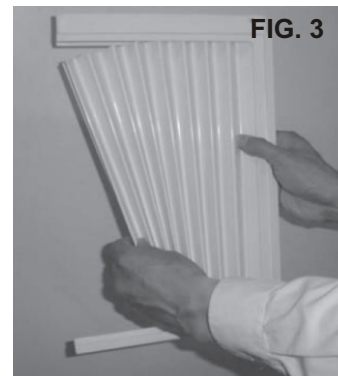


FIG. 3

B. Slide the free end of the panel into the cabinet as shown in Figures 4. Slide the panel down. Be sure to leave enough space to slip the top and bottom of the frame into the rails on the cabinet.

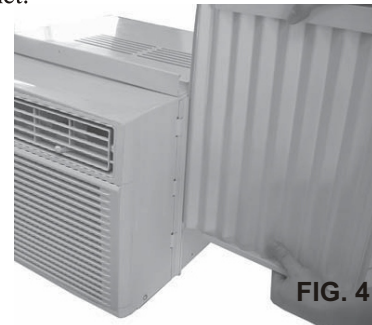


FIG. 4

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. Figure 5.



FIG. 5

D. Slide the panel all the way in and repeat on the other side.

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. 6). Carefully close the window behind the top rail of the unit. **(Suggest to keep a downward oblique, to let accumulated rain water to drain out, from back side of the unit bottom.)**



3 Extend the side panels out against the window frame (FIG. 7).



4 Place the frame lock between the frame extensions and the window sill as shown (Fig. 8). Drive 3/4" (19 mm) locking screws through the frame lock and into the sill (FIG. 9). **NOTE:** To prevent window sill from splitting, drill 1/8" (3 mm) pilot holes before driving screws.



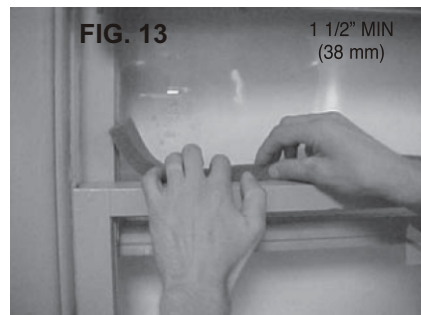
5 Drive 1/2" (12.7mm) locking screws through frame holes into window sash (FIG. 10/11).



6 To secure lower sash in place, attach right angle sash lock with 3/4" (19 mm) screw as shown (FIG. 12).

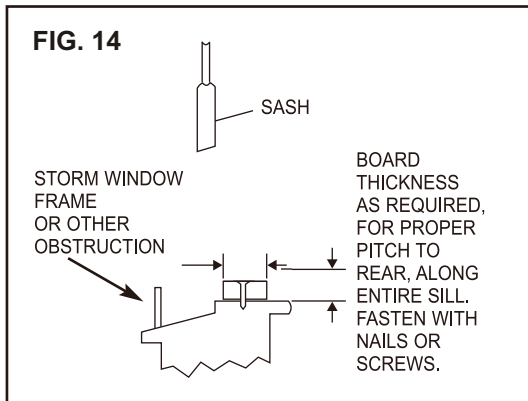


7 Cut foam seal and insert in the space between the upper and lower sashes (FIG. 13).



If AC is Blocked by Storm Window

Add wood as shown in FIG. 14, or remove storm window before air conditioner is installed.



If Storm Window Frame must remain, be sure the drain holes or slots are not caulked or painted shut. Accumulated Rain Water or Condensation must be allowed to drain out.

Removing AC From Window

- * Turn AC off, and disconnect power cord.
- * Remove sash seal from between windows, and unscrew safety lock.
- * Remove screws installed through frame and frame lock.
- * Close (slide) side panels into frame.
- * Keeping a firm grip on air conditioner, raise sash and carefully “rock” air conditioner backward to drain any condensate water in base of unit. Be careful not to spill any remaining water while lifting unit from window. Store parts WITH air conditioner.

AIR CONDITIONER USE

Operating your air conditioner properly helps you to obtain the best possible results.

This section explains proper air conditioner operation.

IMPORTANT:

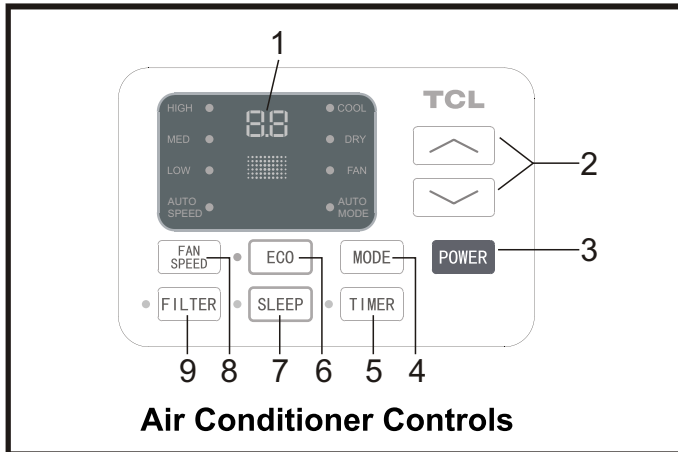
- If you turn off the air conditioner, wait at least 3 minutes before turning it back on. This prevents the air conditioner from blowing a fuse or tripping a circuit breaker.
- Do not try to operate your air conditioner in the cooling mode when outside temperature is below 65°F (18°C). The inside evaporator coil will freeze up, and the air conditioner will not operate properly.

NOTE: In the event of a power failure, your air conditioner will operate at the previous settings when the power is restored.

USING YOUR AIR CONDITIONER

Electronic Control Panel & Remote Control

NOTE: This display always shows the room temperature in Fan Mode except when setting the Set temperature or the Timer.



Air Conditioner Controls

Normal Operating Sounds

- You may hear a pinging noise caused by water hitting the condenser, on rainy days, or when the humidity is high. This design feature helps remove moisture and improve efficiency.
- You may hear the thermostat click when the compressor cycles on and off.
- Water will collect in the base pan during rain or days of high humidity. The water may overflow and drip from the outside part of the unit.
- The fan may run even when the compressor is not on.

- Digital Display:** Without timer setting, the operation mode is Cooling, Dry, Fan and Auto, and the set temperature will be displayed. Time will be displayed under timer setting.
- ▲ and ▼ Button:** Use these buttons on the control panel and remote to increase or decrease the Set Temperature or Timer. Temperature range: 61°F~88°F or 16°C~31°C.
- Power Button:** Turn the air conditioner on and off.
- Mode Button:** Press the mode button to cycle through the various modes: Cool, Dry, Fan and Auto.

Cool Mode: The cooling function allows the air conditioner to cool the room and at the same time reduces Air humidity. Press the MODE button to activate the cooling function. To optimize the function of the air conditioner, adjust the temperature and the speed by pressing the button indicated.

Dry Mode: This function reduces the humidity of the air to make the room more comfortable. Press MODE button to set the DRY mode. An automatic function of alternating cooling cycles and air fan is activated.

Fan Mode: The conditioner works in only ventilation. Press MODE button to set the FAN mode. With pressing FAN SPEED button the speed changes in the following sequence: Hi, Med and Lo in FAN mode. The remote control also stores the speed that was set in the previous mode of operation.

Auto Mode: In AUTO mode the unit automatically chooses the fan speed and the mode of operation (COOL, DRY or FAN). In this mode the fan speed and the temperature are set automatically according to the room temperature (tested by the temperature sensor which is incorporated in the indoor unit.).

- Timer Button:** Use these buttons on the control panel and remote to set the Timer.

Timer Off: The timed stop is programmed by pressing TIMER button. Set the rest time by pressing the button “▲” or “▼” until the rest time displayed is to your demand then press TIMER button again.

Timer On: When the unit is off, press TIMER button at the first time, set the temperature with pressing the button “▲” or “▼”. Press TIMER button at the second time, set the rest time with pressing the button “▲” or “▼”. Press TIMER button at the third time, confirm the setting, then the rest time to next automatical switching-on could be read on the display of the machine.

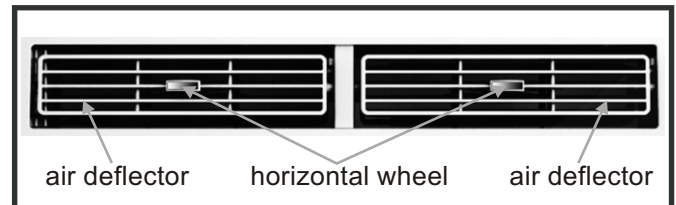
Note: It can be set to automatically turn off or on in 0.5-24 hours. Each press of the “▲” “▼” buttons will increase or decrease the timer. The Timer can be set in 0.5 hours increment below 10 hours and 1 hour increment for 10 hours or above. The SET light will turn on while setting. To cancel the setted function, press the TIMER button again.

USING YOUR AIR CONDITIONER

Electronic Control Panel & Remote Control

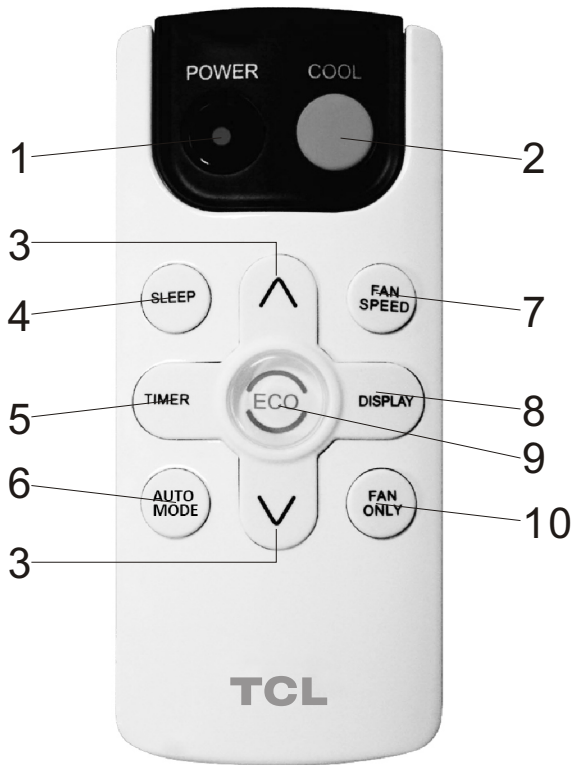
6. **Eco Button:** When the unit is in ECO mode, the light will turn on. In ECO mode, the unit will turn-off once the room is cooled to the user set temperature. The fan will also be off at this point. The unit will turn back on when the room temperature rises above the user set temperature. Before the compressor starts, the fan motor will keep running 10 minutes-stop 20 seconds-and again, to provide much more comfortable feeling, and save the energy.
7. **Sleep Button:** Press the SLEEP button, the Sleep Light will be on after 10s, and all the left lights will be off. In SLEEP mode, the air-conditioner will automatically adjust the temperature and fan speed to make the room more comfortable during the night. The set temperature will automatically raise by 1 °C every 30-60 minutes and at most change six times until the set temperature is 28 °C. And every running time depends on the set temperature.
8. **Fan Speed Button:** Press the FAN SPEED button to choose the fan speed options. You can choose Hi, Med, Lo or auto speed in COOL mode and choose Hi, Med, Lo in FAN mode.
9. **Filter Button:** When the Filter Check light is off, it is useless to press the Filter Check button. When the Filter Check light is on, it can turn off the light by pressing the Filter Check button. After the fan motor works for 500 total hours, the Filter Check light will turn on to remind the user to clean the filter.

10. **Directional Louvers:** To direct the airflow, horizontal wheel to control the horizontal direction, air deflector to control the vertical direction.



OPERATING YOUR AIR CONDITIONER

REMOTE CONTROL



1. **Power:** Turn the air conditioner on and off.
2. **Cool:** Press the COOL button to COOL mode.
3. **^ and v:** Use these buttons on the control panel and remote to increase or decrease the Set Temperature or Timer. Temperature range: 61°F~88°F or 16°C~31°C.
4. **Sleep:** Press the SLEEP button, the Sleep Light will be on after 10s, and all the left lights will be off. In SLEEP mode, the air-conditioner will automatically adjust the temperature and fan speed to make the room more comfortable during the night. The set temperature will automatically raise by 1 °C every 30-60 minutes and at most change six times until the set temperature is 28 °C. And every running time depends on the set temperature.

5. **Timer:** Use these buttons on the control panel and remote to set the Timer.
Timer Off: The timed stop is programmed by pressing TIMER button. Set the rest time by pressing the button “^” or “v” until the rest time displayed is to your demand then press TIMER button again.
Timer On: When the unit is off, press TIMER button at the first time, set the temperature with pressing the button “^” or “v”. Press TIMER button at the second time, set the rest time with pressing the button “^” or “v”. Press TIMER button at the third time, confirm the setting, then the rest time to next automatical switching-on could be read on the display of the machine.
Note: It can be set to automatically turn off or on in 0.5-24 hours. Each press of the “^” “v” buttons will increase or decrease the timer. The Timer can be set in 0.5 hours increment below 10 hours and 1 hour increment for 10 hours or above. The SET light will turn on while setting. To cancel the setted function, press the TIMER button again.
6. **Auto Mode:** In AUTO mode the unit automatically chooses the fan speed and the mode of operation (COOL, DRY or FAN). In this mode the fan speed and the temperature are set automatically according to the room temperature (tested by the temperature sensor which is incorporated in the indoor unit.).
7. **Fan Speed:** Press the FAN SPEED button to choose the fan speed options. You can choose Hi, Med, Lo or auto speed in COOL mode and choose Hi, Med, Lo in FAN mode.
8. **Display:** To press the DISPLAY button, it can switch off/on all lights or LED display.
9. **Eco:** When the unit is in ECO mode, the light will turn on. In ECO mode, the unit will turn-off once the room is cooled to the user set temperature. The fan will also be off at this point. The unit will turn back on when the room temperature rises above the user set temperature. Before the compressor starts, the fan motor will keep running 10 minutes-stop 20 seconds-and again, to provide much more comfortable feeling, and save the energy.
10. **Fan Only:** Press the Fan Only button to FAN ONLY mode.

Battery Size: AAA - NOTE: Do not mix old and new batteries or different types of AAA batteries.

CARE AND CLEANING

Clean your air conditioner to keep it looking new and to minimize dust build up.

Air Filter Cleaning

The air filter should be checked at least once every month to see if it needs cleaning. Trapped particles and dust can build up in the filter and may decrease airflow as well as cause the cooling coils to accumulate frost. To clean the air filter:

1. Remove the filter by pulling down on the indents of the filter door on the front of the unit. (See FIG. 15)
2. Wash the filter using liquid dish soap and warm water. Rinse the filter thoroughly. Gently shake the filter to remove excess water.
3. Let the filter dry completely before placing it into the air conditioner.
4. If you do not wish to wash the filter, you may vacuum the filter to remove the dust and other particles.

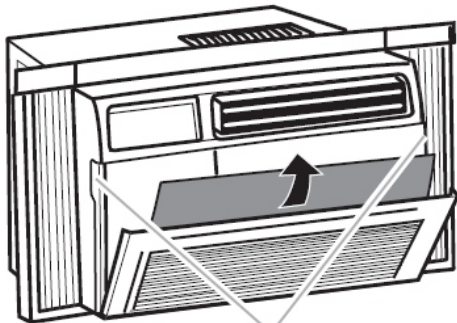


FIG. 15

A. Indents

Wear and Tear

To minimize wear and tear on the air conditioner, always wait at least 3 minutes before changing modes. This will help prevent the compressor from overheating and the circuit breaker from tripping.

Cabinet Cleaning

To clean the air conditioner cabinet:

- Unplug the air conditioner to prevent shock or a fire hazard. The cabinet and front panel of the air conditioner may be dusted with an oil-free cloth or washed with a cloth dampened in a solution of warm water and mild liquid soap. Rinse thoroughly with a damp cloth 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.

Winter Storage

To store the air conditioner when it is not in use for an extended period of time, remove it carefully from the window according to the installation instructions and cover it with plastic or place it in the original box.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The Air Conditioner will not start	The air conditioner is unplugged	<ul style="list-style-type: none"> Make sure the air conditioner plug is pushed completely into the outlet
	The fuse is blown/circuit breaker is tripped.	<ul style="list-style-type: none"> Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	Power failure	<ul style="list-style-type: none"> The unit will automatically re-start when power is restored. There is a protective time delay (approx. 3 minutes) to prevent tripping of the compressor overload. For this reason, the unit may not start normal cooling for 3 minutes after it is turned back on.
	The current interrupter device is tripped.	<ul style="list-style-type: none"> Press the RESET button located on the power cord plug. If the RESET button will not stay engaged, discontinue use of the air conditioner and contact a qualified service technician.
The Air Conditioner does not cool as it should	Airflow is restricted	<ul style="list-style-type: none"> Make sure there are no curtains, blinds, or furniture blocking the front of the air conditioner
	The temperature control may not be set correctly.	<ul style="list-style-type: none"> Lower the set thermostat temperature
	The air filter is dirty	<ul style="list-style-type: none"> Clean the filter. See the Cleaning and Care Section of the manual.
	The room may be too warm	<ul style="list-style-type: none"> Please allow time for the room to cool down after turning on the air conditioner.
	Cold air is escaping	<ul style="list-style-type: none"> Check for open furnace registers and cold air returns
	The cooling coils are frozen	<ul style="list-style-type: none"> See "Air Conditioner Freezing Up" below.
The Air Conditioner is freezing up	Ice blocks the air flow and stops the air conditioner from cooling the room	<ul style="list-style-type: none"> Set the MODE dial to HIGH FAN or HIGH COOL and set the thermostat to a higher temperature
The Remote Control is not working	The batteries are inserted incorrectly	<ul style="list-style-type: none"> Check the position of the batteries.
	The batteries may be dead	<ul style="list-style-type: none"> Replace the batteries

TROUBLESHOOTING (CONT.)

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Water is dripping outside	Hot and humid weather.	<ul style="list-style-type: none">• This is normal
Water is dripping inside the room	The air conditioner is not correctly tilted outside.	<ul style="list-style-type: none">• For proper water drainage, make sure the air conditioner is slightly tilted downward from the front of the unit to the rear.
Water collects in the base pan	Moisture removed from the air is draining into the base pan.	<ul style="list-style-type: none">• This is normal for a short period in areas with low humidity and normal for a longer period in areas with high humidity.



This instruction has an alternative format and you could obtain from our website: <http://hao.tcl.com>.