



INSTALLATION AND OPERATION INSTRUCTION MANUAL FOR WINDOW-TYPE AIR CONDITIONER



■ MODEL

LACW18R4
LACW24R4

Foreword

Air conditioners are pieces of high value. In order to ensure your lawful rights and interests, please have the professional technicians to do the installation for you. This Instruction Manual is the universal-purpose version for the models of window-type air conditioners manufactured by our Co. The appearance of the units that you purchase might be slightly different from the ones described in the Manual, but it does not affect your proper operations and usage.

Please read carefully the sections corresponding to the specific model you choose, and keep the Manual properly so as to facilitate your reference at later time.

Addition to the user manual:

The appliance is not intended for use by young children or infirm persons without supervision; Young children should be supervised to ensure that they do not play with the appliance.

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INSTRUCTIONS TO END-USERS

Read this Manual carefully before using the air conditioner to ensure proper operation of the units.

INSTRUCTIONS TO INSTALLATION

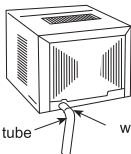
- Make sure that our Co. after-sale service persons or technicians from our Co. or authorized maintenance shops do the installation for you.

Do not install the units at places where there might be leakage of inflammable gases.



In the case that the gases are leaked out and accumulated around the machine, it might result in fire hazards or other accidents.

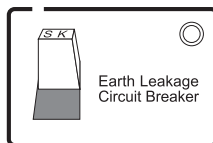
After the connection of the wires between the indoor unit and the outdoor unit, check the connecting is loose or not by pulling the wire with a little force.



lengthen drain tube water outlet pipe

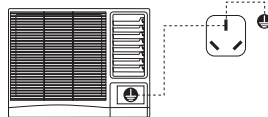
If loose, there might happen fire hazards.

Make sure that breaker is installed for safe operations.



If breaker is not installed, it might result in electric shock or other hazards.

Make sure that the power source of the units is properly grounded.



The grounding wire of the air conditioner must be firmly connected to the grounding wire of the power source. Improper grounding will lead to possible electric shock or other hazards.

INSTRUCTIONS TO OPERATIONS

Do not try to stop the operation of the air conditioner by pulling the power cable from the socket.



The diagram is not suitable for fixed wiring, please refer to the fixed wiring diagram in installation. It might result in electric shock, fire hazard or other accidents.

Do not plug the power source cable of the air conditioner to a connecting socket. Prolonged power cable or sharing the same socket is not allowed.

It might result in electric shock, overheating, fire hazard or other accidents.

Do not press, stretch, damage, heat or modify the power cable.



It might result in electric shock, overheating, fire hazard or other accidents. In the case that the power cable is damaged or that a replacement for the power cable is needed due to some other reasons, please ask the our Co. dealer or authorized maintenance people to do the replacement.

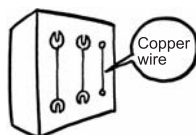
Do not operate the power switches of the air conditioner by wet hands.

It might lead to electric shock or other hazards.

Make sure that there is no dust on the plug before you plug in the power socket and make sure the plug is well into the socket.








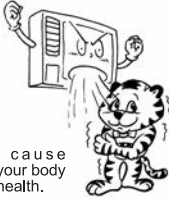


If there is dust on the plug or the plugging is not properly done, it might lead to electric shock, fire hazards or other accidents.

Do not use the fuse with improper capacity or other metal wires.



Improper use of metal wires or copper wires for fuse may result in faulty performances of the machine or fire hazards.

INSTRUCTIONS TO END-USERS

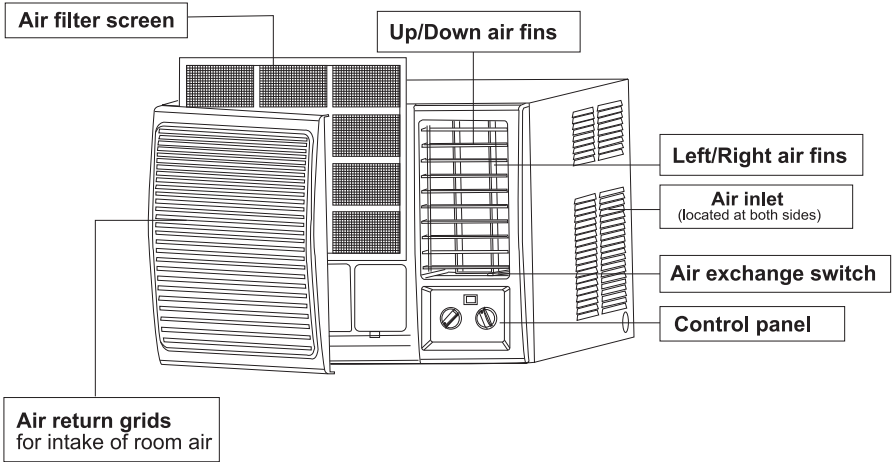
| | | |
|--|--|---|
| <p>Try as much as possible to avoid the sunlight and warm air from entering the room.</p>  <p>During the cooling operation, window curtains or louver blinds are to be used to shade off the sunlight.</p> | <p>Try to reduce the generation of heat in the room during cooling operations. Place the heating source outside of the room, if possible, do not use burning appliances in the air-conditioned room.</p>  <p>It might lead to the incomplete burning of these appliances.</p> | <p>If the air conditioner and the burning appliances have to be used in the same room, try to get good ventilation of the room.</p>  <p>Insufficient ventilation might lead to the hazard of anoxia.</p> |
| <p>Do not place such articles as insecticides, paints or other flammable spraying agents near the air conditioner or spray them against the air conditioner.</p>  <p>It might result in fire hazards.</p> | <p>Do not insert sticks or other hard objects into the air inlet or outlet.</p>  <p>The high-speed rotation of the fan blades may cause accidents.</p> | <p>Do not wash the air conditioner with water.</p>  <p>It may cause electric shock or other accidents.</p> |
| <p>Do not use the following articles:</p>  <p>Warm water (above 40°C) Warm water might cause deformation or fading of colors of the air conditioner. Gasoline, paint diluting agent, benzene and abrasives, etc. may cause deformation or scratches to the air conditioner.</p> | <p>Do not let the delivered air blow to your body directly for long time.</p>  <p>It might cause discomfort of your body or harm your health.</p> | <p>Do not sit on the outdoor unit or place heavy objects on it.</p>  <p>The falling of the unit might cause body injuries or other accidents.</p> |
| <p>Check to see if the supporting parts of the units are properly fixed and firm.</p>  <p>If the supporting parts are damaged, repair them at once so as to prevent the unit from falling down which might cause body injuries or hurts.</p> | <p>If the air conditioner is not to be used for a long period of time, please pull out the plug from the power source socket to ensure safety. Turn off the air conditioner before pulling out the plug.</p> | |

INSTRUCTIONS FOR REMOVAL AND REPAIRS

- If the units need to be removed for installation elsewhere or for repairs, please contact our Co. dealer or authorized maintenance shop technicians to do the job.
- In case of occurrence of abnormality (burning smell, for example), please stop the operations, disconnect the power and contact our Co. dealer or authorized maintenance shop.

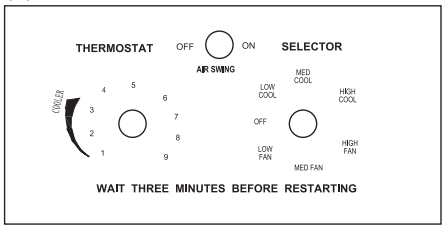
NOMENCLATURE AND FUNCTIONS OF VARIOUS PARTS

Because there are many models, features and appearance will vary, we only introduce the follow pattern, Others please refer to using.

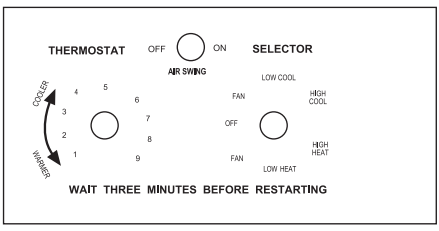


MANUAL CONTROL PANEL

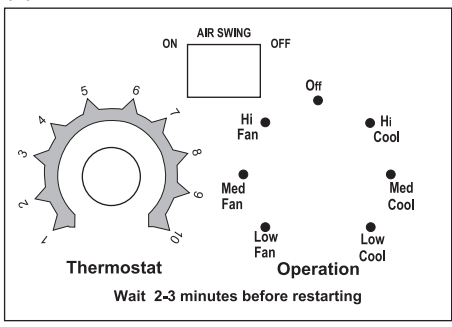
(1)



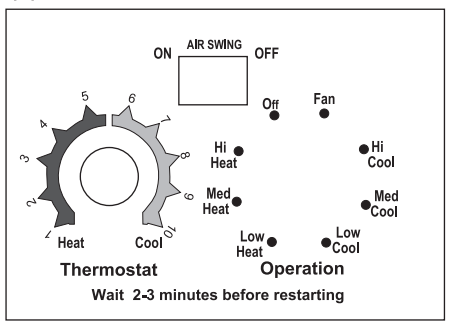
(2)



(3)



(4)



Note: The layout and functions of various models of control panels may differ from each other. Please read the following for your reference, and refer to using.

USE OF CONTROL PANEL

OPERATING METHOD FOR FUNCTIONAL CONTROL KNOBS

These knobs are used to control the rotating speed of the fan motor or the operation mode of the air conditioner.

- When the knob is turned to "**FAN**", the air conditioner will enter the ventilation mode of operation, but the compressor is not activated.
- When the knob is turned to "**LOW FAN**", the air conditioner will be in low fan operation mode to delivery weak airflow.
- When the knob is turned to "**MED FAN**", the air conditioner will be in medium fan operation mode to delivery strong airflow.
- When the knob is turned to "**HIGH or Hi FAN**", the air conditioner will be in high fan operation mode to delivery stronger airflow.
- When the knob is turned to "**LOW · COOL**", the air conditioner will be in low cooling operation mode to delivery weak airflow.
- When the knob is turned to "**MED · COOL**", the air conditioner will be in medium cooling operation mode to delivery strong airflow.
- When the knob is turned to "**HIGH or Hi COOL**", the air conditioner will be in high cooling operation mode to delivery stronger airflow.
- When the knob is turned to "**LOW HEAT**", the air conditioner will be in low heating operation mode to delivery weak airflow.
- When the knob is turned to "**MED HEAT**", the air conditioner will be in medium heating operation mode to delivery strong airflow.
- When the knob is turned to "**HIGH or Hi HEAT**", the air conditioner will be in high heating operation mode to delivery stronger airflow.
- When the knob is turned to "**OFF**", the air conditioner will stop operation.
- The "**LOW FAN**", "**MED FAN**", "**HIGH FAN**", "**MED COOL**", "**MED HEAT**" functions are not available in some models, please refer to using.

Note: When the knob is to be turned, try to turn it as slowly as possible and not to turn it frequently. The time interval for re-activation must be no less than 3 minutes so as to avoid overload to the unit, which might cause fuse blown.

OPERATING METHOD OF TEMPERATURE CONTROL KNOB

The temperature is to be reduced from 1 to 9 or 10, Turn the knob to adjust the needed temperature.

ADJUSTMENT OF AIR EXCHANGE

The air exchange switch is normally placed at the left closed position. When it is moved to the right, the unit will discharge a little amount of the filthy air inside the room to keep the air fresh. But if the switch is placed at the right position for long time, the cooling effect will be affected.

ADJUSTMENT OF AIR DIRECTION

Up/down adjustment:

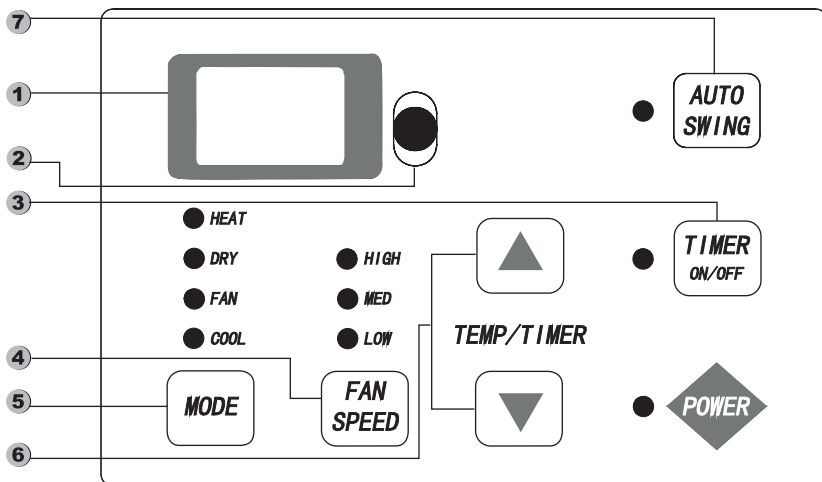
Hold the up/down air fins at proper position by hand and move it upward or downward for adjustment.

Left/right adjustment:

When the air swinging knob is turned to the "**ON**" position, the left and right air delivery fins will swing back and forth. When the fins moved to the air delivery angle that you desire, turn the knob to the "**OFF**" position and the fins will stop swinging. The air conditioner will deliver the air in the fixed direction.

USE OF CONTROL PANEL

OPERATION PANEL 1



1 DIGITAL DISPLAYER

In usual operation, In FAN mode, It indicates room temperature; In COOL or DRY mode, It indicates setting temperature; In timer operation, when pressing the timer button, it indicates timer time, if the time has not been adjusted after 5 seconds, it indicates temperature again; If ROOM TEMP SENSOR failure, It indicates temperature at 25°C (77°F).

2 REMOTE CONTROLLER SIGNAL RECEIVER

3 TIMER button

If unit is running, Press this button will enter Switch-OFF mode; If unit is off (in standby mode), Press this button will enter Switch-ON mode. Press this button again will cancel the timer operation. Used together with ▲ or ▼ button to set the timer time.

4 SPEED button

Press this button to set air rate you want: HIGH, MED, LOW.

5 MODE button

Press this button, it advances the operation mode as follows: COOL - DRY - FAN (HEAT for cooling and heating model) - AUTO. It will display the sign "◀" to indicates selected operation mode.

6 TEMP/TIME button

In usual, press this button to adjust setting temperature within a range of 20-28°C (68-82°F). In timer time setting state (press timer button to enter and "hr" indicator on right bottom of the digital displayer will be flashing), press ▲ or ▼ button to set the timer time within 1-24 hours.

7 SWING button

Pressing this button will adjust the air swinging direction or the air delivery in fixed direction.

NOTE:

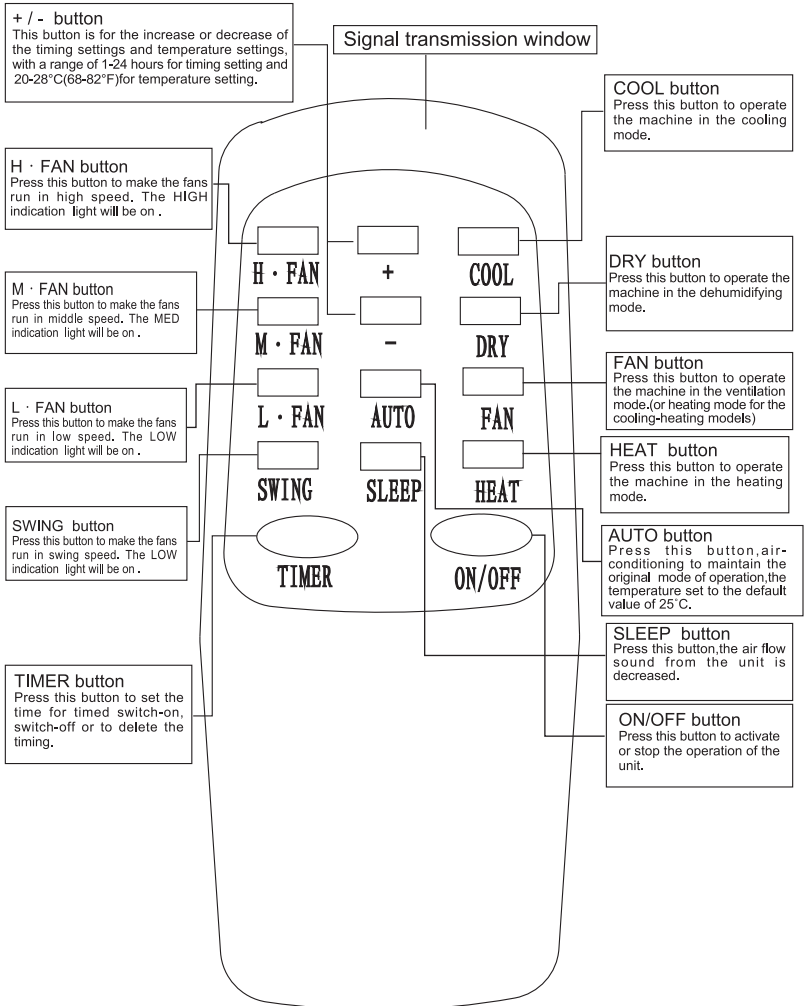
The control panel might be slightly different from you choose model, but it doesn't affect your proper operations. The heating mode only to dual-temperature.

The air conditioner is able to operate at 52 degrees.

USE OF CONTROL PANEL

REMOTE CONTROLLER

- Note: 1. Only some model air conditioners are supplied with a remote controller.
2. There are two types of remote controllers, Please check to refer the instructions for the identical remote controller of your air-conditioner.

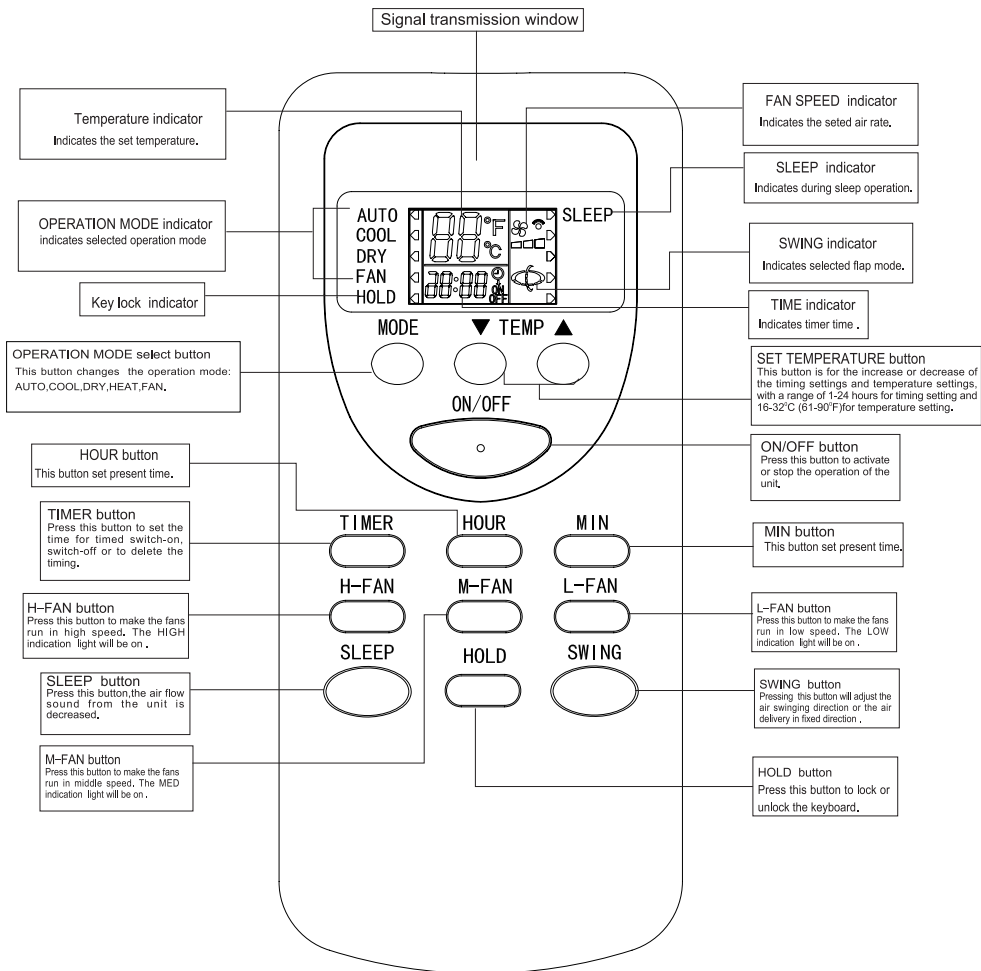


USE OF CONTROL PANEL

REMOTE CONTROLLER

Note:1.Only some model air conditioners are supplied with a remote controller.

Remote Controller 2



METHODS OF MAINTENANCE

★ Before doing the maintenance, make sure that the air conditioner is turned off and the plug is pulled out from the socket.

Before the operational seasons


- 1 Check to see if there are any blocking objects around the air inlet and outlet of the indoor and outdoor units.
- 2 Check to see if the installation base is corroded or rusty.
- 3 Check if the grounding is properly made.



ground wire

- 4 Check if the air filter screen is clean.
- 5 Connect to the power source
- 6 Load batteries in the remote controller.

After the operational seasons

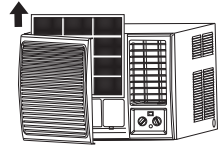
- 1 Set the temperature at 30°C and let the machine run in cooling mode for half a day. Make the interior of the units dry. 
- 2 Stop the operation of the machine and turn off the power switch.
It is recommended to pull the plug from the power socket in the non-operational season for the sake of safety and saving energy.
- 3 Clean the air filter screen and install it back to place.
- 4 Clean the indoor unit and outdoor unit. 
- 5 Take the batteries out from the remote controller.

During the operational seasons

Clean the air filter screen (at a standard interval of once every two weeks).

1 Remove the air filter screen

- 1) Pull out the Air-return grids.
- 2) Gently grab the air filter screen and lift it up, and then take it out .



2 Clean the air filter screen.

If the air filter screen is very dirty, you may use lukewarm water (about 30°C) to clean it, and then air it dry.

N.B:

- Do not use boiling water to clean the screen.
- Do not bake the screen dry.
- Do not pull it with too much force.

3 Install the air filter screen.

If the air conditioner is operated without an air filter screen, the interior of the unit will be contaminated by dirt which might cause performance failure or even damage of parts.

4 Clean the air conditioner

- Use soft dry cloth to wipe the air conditioner or use a vacuum cleaner to do the cleaning.
- If the air conditioner is very dirty, you may use a piece of cloth soaked with household neutral detergent to do the cleaning.



N.B:

If the air filter screen is blocked by dust, the performance of cooling and heating operations will be affected, the operational noise will be larger and the power consumption will be increased. Therefore, periodic cleaning of the air filter screen is necessary.

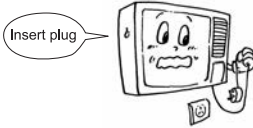
DIAGNOSIS ON PHENOMENA AND TREATMENTS

Inspection and treatment prior to maintenance

Please check the following items before asking our Co. dealer or authorized maintenance shop for after-sale services:

The air conditioner does not work at all.

Is the power plug inserted into the socket properly?



Is there a power failure or is the fuse blown?



Is the timer set for the "TIMER-ON" mode?

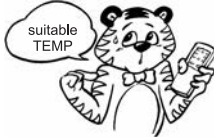
If the air conditioner is set for timed switch-on operation mode, it will not start operating before the set time is reached.

Is the ambient temperature lower than 16°C?

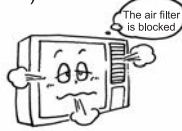
If so, the auto protection function of the air conditioner will prevent the unit from cooling operation.

There is no sufficient cooling

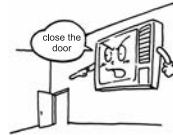
Is the room temperature set properly?



Is the air filter screen clean (not blocked)?



Are the doors or windows opened?



Is the room directly exposed to sunlight?



Are there any heating sources inside the room?



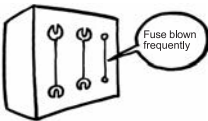
Are there many people inside the room?



Note: If the air conditioner remains abnormal in operation after the above checks and inspection, please disconnect the power and contact the our Co. dealer or the authorized maintenance shop.

In any of the following cases, please turn off the power of the air conditioner and immediately contact the dealer or the authorized maintenance shop:

The fuse is frequently blown or the breaker is often off.



There are abnormal noises when the machine is operating.



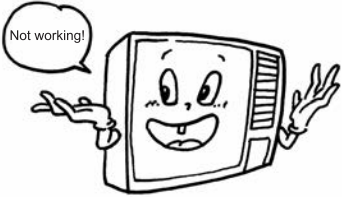
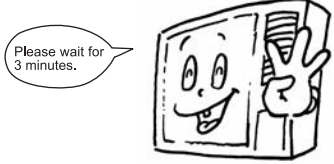
The switches do not work.

The electric wire turns abnormally hot.

The insulation sheath of the power cable is torn.

DIAGNOSIS ON PHENOMENA AND TREATMENTS

The following phenomena occurring during the operation do not mean faults of the machine. You may use the air conditioner with peace of mind.

| Phenomena | Diagnosis |
|--|---|
| <p>The air conditioner cannot be started for operation after it is turned off.</p>  | <p>Start the operation after 3 minutes. This is to protect the air conditioner.</p>  <p>The microchip protection device for 3 minutes' delay performs its function. When the machine is powered for the first time, this function does not work.</p> |
| <p>Frog is blown out during the cooling operation.</p> | <p>When the indoor temperature and humidity is high, such phenomena might occur. When the indoor temperature and humidity drops, the frog will disappear.</p> |
| <p>There is odd smell of the delivered air.</p> | <p>It might be the smell of cigarette smoke or other things inside the air conditioner.</p> |
| <p>There is "squeezing" sound.</p> | <p>It might be caused by the cycling of the refrigerant inside the air conditioner.</p> |
| <p>There is "patting" sound.</p> | <p>It might be caused by the heat expansion of contraction of the plastic parts.</p> |
| <p>There is moisture at the air outlet grids.</p> | <p>If the air conditioner operates in high humidity for long time, moisture may be condensed at the grids and become water drops.</p> |

INSTALLATION

Points for attention in installation

- Make sure that there is no object in front of the air conditioner that might block the air delivery or the smooth operation of the unit;
- Do not install the air conditioner at the following places: 1) where there may be leakage of inflammable gases; and 2) where there is much oil splash.
- Before the installation of the unit, please make sure that the supporting stand is strong enough to withstand the load and that the installation of the unit will not cause much noise and vibration;
- Check to see if the cold/warm air delivered from the outlets of the air conditioner unit or the operational noise will trouble your neighbor;
- Placing of objects near the air inlet and outlet of the unit will cause possible performance failures or increase the operational noise. Refrain from putting such objects at the air inlet and outlet;
- If abnormal sound is detected during the operation, please contact our Co. dealer or the authorized maintenance shop.

Guides to installation

To ensure the normal operations of the unit, please ask the professional technicians or people from our Co. authorized maintenance shops to do the installation. This guide applies to all the models indicated on the front page of the Manual.

I. Selection of installation position (as shown in the figure on the right)

- The air inlet and outlet should be unblocked and the air can be delivered to every corner of the room.
- Install the unit at places away from heat sources or sources of inflammable gases.
- Install the unit at places not directly exposed to sunlight.
- There should be sufficient space margins around the unit so as to facilitate maintenance and repairs.
- Do not install the unit at places subject to strong wind or dust.
- Do not install the unit at places where the operational noise and exhausted air might trouble your neighbors.

Figure 1-1

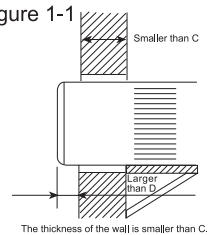
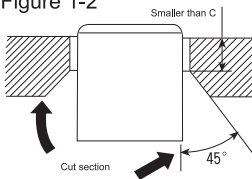
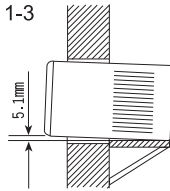


Figure 1-2



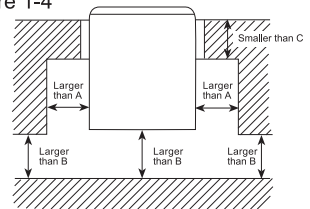
If the wall thickness is larger than C, cutting of the wall should be done as shown.

Figure 1-3



In order to allow smooth drainage, the rear of the unit should be a little lower when installing.

Figure 1-4



Sufficient space margin should be left on the outdoor side (mm)

| Model | 2000W | 2200W | 2500W | 3200W 3500W | 4600W 5000W | 6100W 6600W |
|-----------|-------|-------|-------|----------------|----------------|----------------|
| Dimension | | | | | | |
| A | 400 | 400 | 400 | 400 | 400 | 500 |
| B | 500 | 500 | 500 | 500 | 500 | 650 |
| C | 170 | 170 | 170 | 210 | 210 | 210 |
| D | 50 | 50 | 50 | 50 | 50 | 50 |







The indicated measurements are the recommended minimum dimensions.

INSTALLATION

II. Installation steps

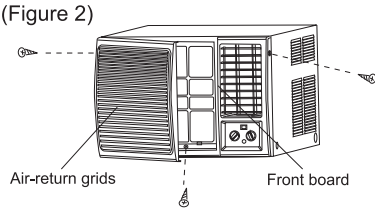
1. Before doing the installation, please check to see if the installation accessories are complete.

Accessories for installation:

| Name | Installation manual | Water outlet pipe | Rubber stopper | Sealing ring | Water containing plate | Screws |
|------------|---|---|---|---|---|---|
| Appearance |  |  |  |  |  |  |
| Quantity | 1 | 1 | 1 | 1 | 1 | 4 |

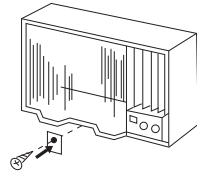
The above information is for your reference only. Please check with the packing list.

2. Pull out the Air-return grids, and remove three screws on the front board, then take off the front board (Figure 2)



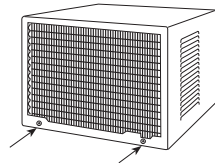
3. Remove the base fixing plate (Figure 3) (optional steps, The base fixing plate is not contained on some models)

(Figure 3)



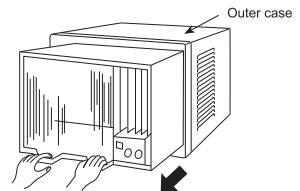
4. Remove the two screws at the bottom or on both sides of the package (Figure 4).

(Figure 4).



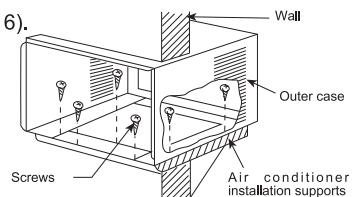
5. Hold the handle of the base of the air conditioner firmly and pull the base from the package along with all the machine parts (Figure 5)

(Figure 5)



6. Fix the outer case of the air conditioner to the installation supports with screws (supplied by the end-user or by the local our Co. dealer or authorized service center) (Figure 6).

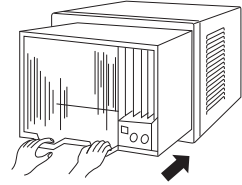
(Figure 6).



INSTALLATION

7. Push the air conditioner into the outer case horizontally.
8. Install the base fixing plate(optional), tighten the two screws at the bottom or both sides of the outer case.
9. Install the front board .
10. Install the air-return grids.
11. Test running.
 - a) Connect to power source.
 - b) Check to see if the room temperature control and the function controls work properly.
 - c) Check if the water drainage is smooth and unblocked.
 - d) Check if there are any abnormal sounds during operations.

(Figure 7).



Treatment of condensing water

There are two ways to handle the condensing water. Please make your choice according to your needs.

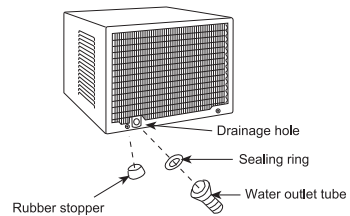
Method I:

Block the drainage hole on one side of the unit base with a rubber stopper so as to let the condensing water flow out from the rear drainage hole of the unit. (as shown in Figure 7-1)

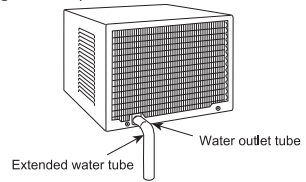
a) When this method is adopted, the condensing water in the base plate cannot be drained completely. The remaining water may improve the heat dispersing effect of the unit, but with louder noise.

b) Installation of drainage tube: Install the sealing ring to the drainage tube and align the tube with the rear drainage hole of the unit, and turn the water outlet connecting tube for 90 degrees and then clamp it firmly (Figure 7-2).

(Figure 7-1).



(Figure 7-2).



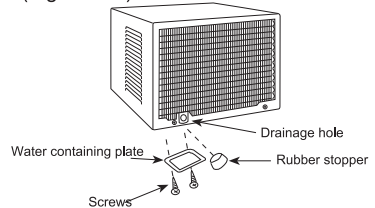
Method II:

The condensing water flows out from the drainage hole at the base plate of the unit

a) When this method is adopted, the condensing water in the base plate can be drained completely, which helps to prevent from rusting. There will be no noise of water splashing. But the air conditioner has to be raised to a certain height in installing so that the water containing plate can be placed between the base of the unit and the supporting platform.

b) Installation of the water containing plate: Use a rubber stopper to block the drainage hole at the rear of the unit and place in the water containing plate (Figure 7-3).

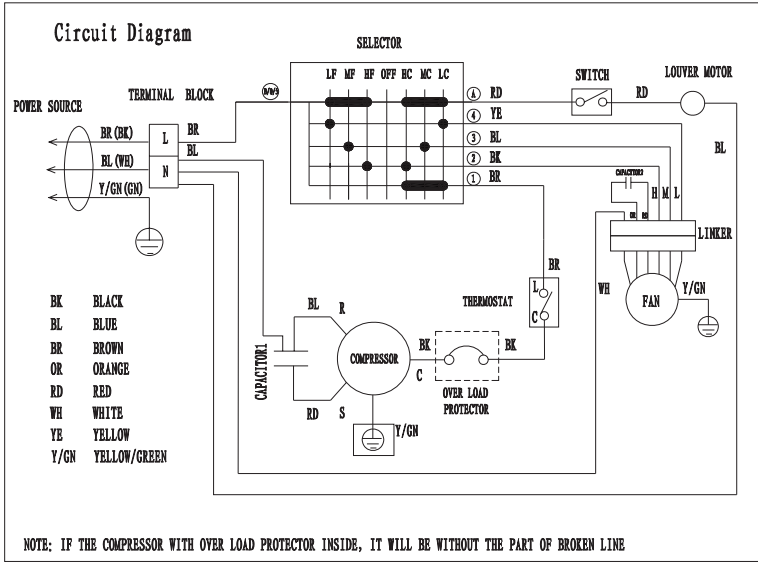
(Figure 7-3).



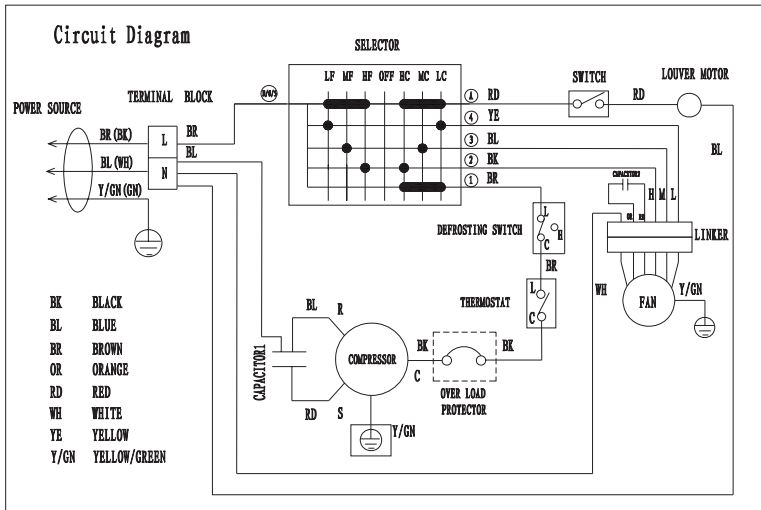
USE OF CONTROL PANEL

Circuit Diagram

Circuit Diagram 1



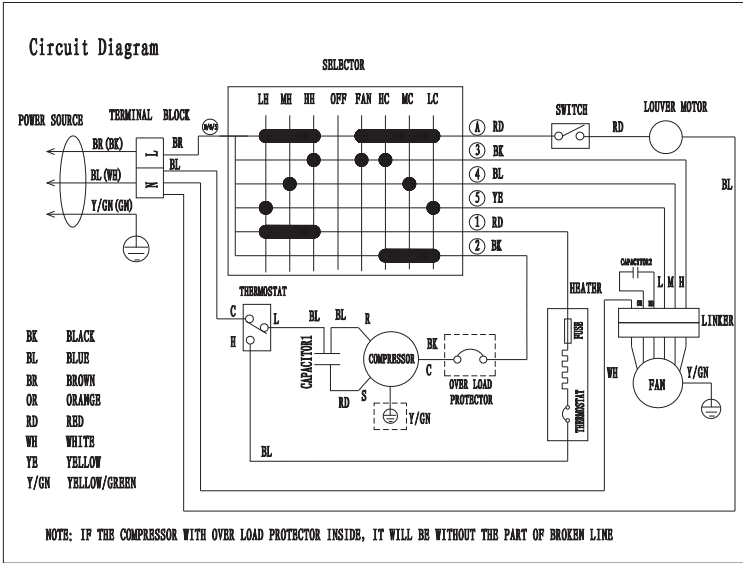
Circuit Diagram 2



USE OF CONTROL PANEL

Circuit Diagram

Circuit Diagram 3



USE OF CONTROL PANEL

- Disconnect the power supply before cleaning and maintenance.
- This appliance is not intended for use by persons (Including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- The appliance shall be installed in accordance with national wiring regulations.
- An all-pole disconnection switch having a contact separation of at least 3 mm in all poles should be connected in fixed wiring.
- The appliance shall not be installed in the laundry if indoor water proof is IPX0.

