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B183HES

CE51093HES CE52183HE
CE51094HES ES10931HE
CE51123HES ES1123A
ES1123HES

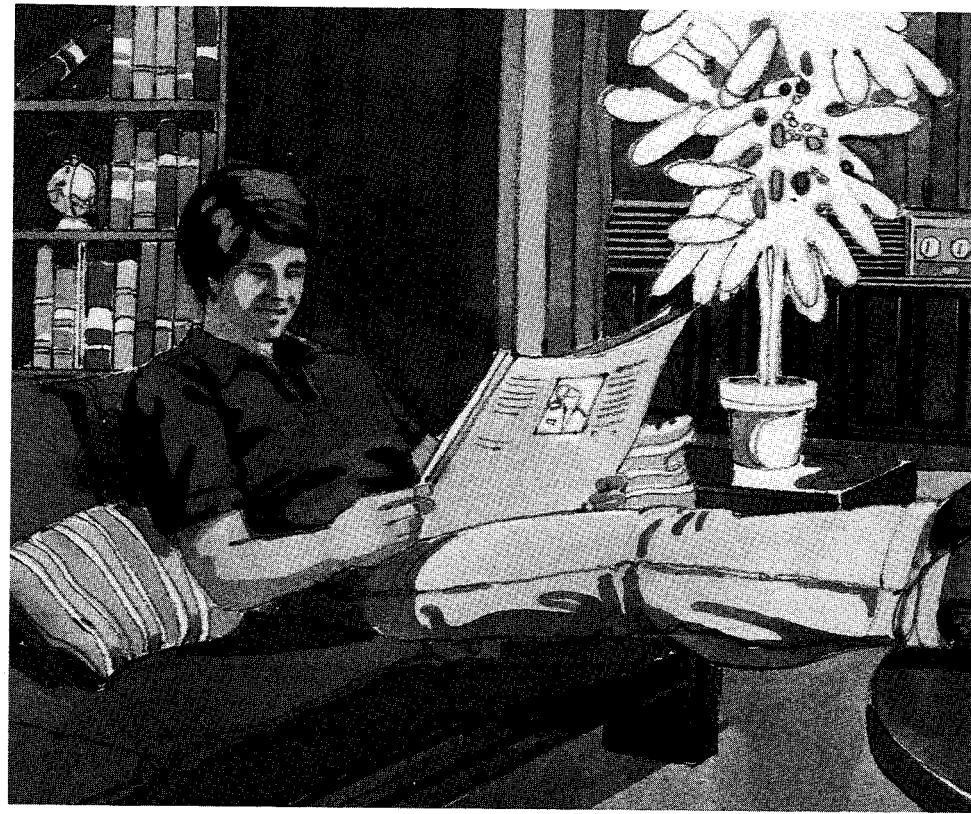
Amana®

ES112MA, ES2183HES, ES92MA

Room Air Conditioner

ES2183A Owner's Manual

ES21835, ES22135, ES8P2MS, ES7P2MA



Read this manual carefully before operating your room air conditioner. Keep these instructions in a safe place for future reference.

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Fill in completely

OWNER'S PRODUCT IDENTIFICATION

MODEL NUMBER

SERIAL NUMBER

MANUFACTURING NUMBER

Owner's Name

Address

City

Date of Purchase

Authorized Dealer

Address

City

Read carefully and completely

This room air conditioner will cool, dehumidify and filter the air inside your home. Many units will also exhaust stale air and provide fresh air. Heat/cool units will provide efficient heating in addition to cooling.

Sections 1 through 7 of this manual give you general operating instructions, installation and maintenance instructions for your room air conditioner. These general instructions apply to all models. Please read them carefully. Sections 8 and 9 provide specific instructions, including special features and controls for each model. After reading sections 1 through 7, turn to section 8 or 9 to find instructions for the model with controls like the unit you have purchased.

2. UNPACKING

Unpack and visually inspect the unit. Report any damage to the delivering carrier immediately. Remove and discard all packing material. On some models the air conditioner front and a mounting kit may be packaged separately.

Record the model, serial and manufacturing numbers of your unit in the space provided on page 1. This information is found on a nameplate visible after the front of the air conditioner has been removed. The voltage, amperage, and capacity of the unit are also recorded on this nameplate.

Read the warranty packaged with the unit. Keep the warranty and a copy of your sales receipt for future reference. You may also want to record the date purchased and the selling dealer on page 1.

3. ELECTRICAL REQUIREMENTS

Be sure that the electrical power supplied to the unit matches the electrical requirements shown on the unit nameplate. A licensed electrician or qualified service

codes should be consulted with regard to appropriate electrical wiring for the air conditioner. This will ensure that the wiring is of the proper size and that the voltage is correct for operation of the air conditioner. 230/208 volt models are based on operation from 253 to 197 volts.

Models marked "Use on Single Outlet Circuit Only" should not be plugged into a circuit with another appliance or light fixture. Fuse ratings must be according to the fuse instruction label on the unit. Time delay fuses are recommended. To prevent blowing fuses, wait two minutes after turning the unit off before turning it on again.

This air conditioner is equipped with a three-prong grounding plug for your protection against possible shock hazards. Where a two-prong receptacle is encountered, it is the personal responsibility and obligation of the owner to contact a qualified electrician and have it replaced with a properly grounded three-prong receptacle in accordance with the National Electrical Code and/or local codes. **The use of an extension cord is not recommended.**

Where a two-prong adaptor is required temporarily, it is the personal responsibility and obligation of the owner to contact a qualified electrician and have the adaptor properly grounded and polarized.

DO NOT UNDER ANY CIRCUMSTANCES CUT OR REMOVE THE ROUND GROUNDING PRONG FROM THE PLUG.



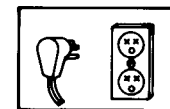
Receptacle configuration:
125V, 15A.
Used on all 115V. models.



250V, 15A.
Used on 230/208V. Models
rated 12 amperes or less.



250V, 20A. Used on 230/208V.
models rated over 12 amperes
but not more than 16 amperes.



4. INSTALLATION

These room air conditioners are made for one of three types of installation.

Instant Mount Kit. Portable and Scot models come with the Instant Mount kit attached to the unit. Fold out wings on these units make them quick and easy to install.

Standard Mount Kit. 100, 200 and 600 Series models feature a separate standard mounting kit. These units are of slide-out chassis design. This means you can install the outercase in the window first, then slide the chassis in place. These units may also be installed through the wall, providing the side louvers are left unobstructed.

No Mount Kit. Heating/cooling models are designed to be permanently installed through the wall. They can be adapted to window installation by purchasing an optional mounting kit.

Separate Sleeve. Some models require a sleeve for the chassis that must be purchased separately. Consult installation instructions for information.

Complete installation instructions are furnished with each unit or mounting kit.

Drain plug. In areas where extreme high humidity is encountered, it may be desirable to attach a condensation drain to your unit. Most models contain a drain outlet which is sealed at the time of shipment. The rubber grommet which seals the drain may be punctured and a drain tube inserted. Some units now have thermostatic drain.

During winter operation of heat pump units, the condensation drain will help ensure maximum operating efficiency. During winter heat pump operation, water enters the base pan as a result of defrosting of the outside coil. The drain will remove this water, helping the unit deliver rated heating capacity. A drain tube must be installed if the unit will be operated at temperatures below 32°F (0°C).

5. ROOM HEAT PUMPS

Heat pumps work by pumping heat instead of creating it. In the summer, the

cool indoor coil absorbs heat from your room and pumps it outdoors, providing comfortable cooling. In the winter, heat pumps reverse operation. Even on cool days there is heat in the air. By lowering the temperature of the outdoor coil below the outdoor temperature, the heat pump absorbs heat from outdoors and pumps it inside your house. This heat transferring process is very efficient. For example, at 45°F outdoor temperature, a heat pump can provide 2-1/2 watts of heat for every watt of electricity it consumes.

In order to transfer heat, the outdoor coil must be colder than the outdoor temperature. As temperatures drop, the heating capacity and efficiency of the heat pump declines. At temperatures below 40°F, it is likely that ice will form on the outdoor coil. 230/208 volt heat pump units are designed to operate as a heat pump above approximately 40°F. Below 40°F, these units switch automatically from reverse cycle Heat Pump to auxiliary electric heating. No defrost is required. There is no minimum operating temperature.

The 115 volt model heats by reverse cycle (Heat Pump) only. It features an automatic defrost system to remove excess frost on the outdoor coil. Operation of this unit is not recommended when outdoor temperatures are 32°F or less.

See Section 9 for specific details on the model you have purchased.

6. NORMAL CARE AND MAINTENANCE

Front grille. On portable, compact and 200 series units the front grille contains a removable insert that provides access to the air filter. On 600 series, the front grille is attached to the outercase by two coinhead screws, one at each end of the grille. The grille and cabinet may be cleaned with a mild soap or detergent. Cleaning or polishing compounds are not recommended, as they may damage plastic surfaces.

Air filter. Each unit is equipped with a permanent, removable air filter. Instructions for removal of the air filter are included in Sections 8 and 9. The filter should be inspected at regular intervals. It can be cleaned with a vacuum cleaner or washed in a mild detergent. The filter should be thoroughly dried before it is replaced. Do not operate the unit without a filter.

Tilting air discharge chamber. The air discharge chamber tilts to provide a maximum 30° upward air discharge (except portable models). In addition, some units have air flow deflectors which allow you to divert the air from a center flow to the left or right.

Fan motor. The fan motor is permanently lubricated. However, there are oiler ports on most models. Periodic oiling will extend the operating life. Caution: Do not over oil -- 3 to 6 drops of 20 weight non-detergent oil are sufficient.

Annual inspection. It is suggested that your unit be inspected by your dealer or servicer once a year. If it is operated in a dusty climate, it is advisable to have the outercase removed and the unit thoroughly cleaned.

Ocean-side or corrosive atmosphere. The life your unit may be greatly reduced if you live in a salt-air or other corrosive type environment. Under these conditions the unit should be removed from its case and completely cleaned at least once a year. At that time any scratches or blisters on the painted surfaces should be sanded and repainted. The use of an algicide tablet is suggested in humid areas where algae formation is common.

7. OPERATION AND CONTROLS

The operation and controls of all units are very similar, however, they do vary slightly from model to model. Refer to the page in Section 8 or 9 that shows the control panel of the unit you have purchased.

Your unit will have some or all of the following controls and settings:

Fan Control

FAN ONLY—Fan circulates room air for comfort without cooling or heating.
COOL—Cools, dehumidifies, filters and circulates room air.

HI or HI COOL—Cools, dehumidifies, filters and circulates room air with the fan running continuously on high speed.

MEDIUM COOL—Cools, dehumidifies, filters and circulates room air with the fan running continuously on medium speed.

NORM COOL—Cools, dehumidifies, filters and circulates room air with the fan running continuously on normal speed.

LO or LO COOL—Cools, dehumidifies, filters and circulates room air with the fan running continuously on low speed.

HI HEAT—Heats, filters and circulates room air with the indoor fan on high speed.

LO HEAT—Heats, filters and circulates room air with the indoor fan on low speed.

Thermostat Control

Controls cooling or heating operation by cycling compressor or heater on and off. Easy-to-read dial is numbered from 1 to 8. Turn clockwise toward higher number for cooler temperature. Turn counter clockwise toward lower number for warmer temperature.

On heat pump models, the thermostat does not switch the unit from one function to the other. On these models the thermostat only cycles the unit on and off as needed to maintain the preset temperature. To switch units from cooling to heating, you must change the Fan Control setting.

Economy Settings. On most cooling models, the thermostat has a range of settings indicated as Economy Settings. This range serves as a visual reminder that setting the thermostat at a lower number can reduce energy consumption. Setting the thermostat at the coldest or warmest extremes of the thermostat range will not cool or heat the room any faster.

When the unit is first turned on, set the thermostat at the center of its range. Allow several hours for the room temperature to equalize, then adjust the thermostat as necessary.

Air Control

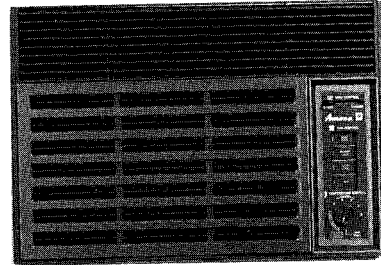
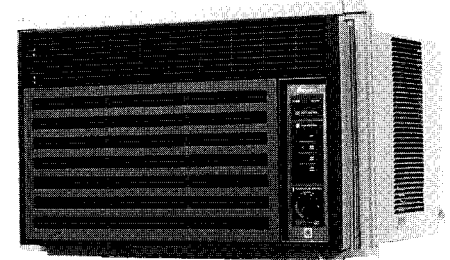
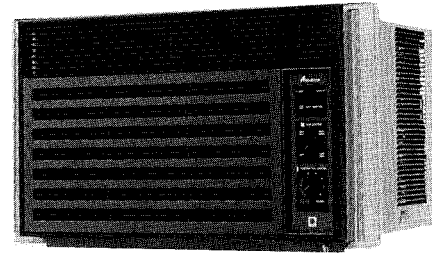
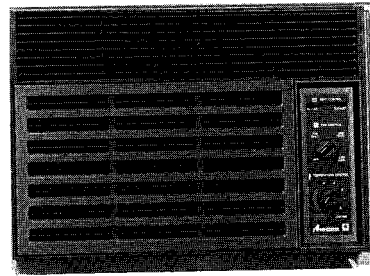
Many units feature some or all of these Air Controls:

EXHAUST—Exhausts and circulates room air. Fan Control can be placed at any setting.

NORMAL—Exhaust damper is closed. Unit circulates indoor air only.

OPEN—Exhausts and circulates room air. Fan Control can be placed at any setting.

CLOSE—Exhaust damper is closed. Unit circulates indoor air only.



8. COOLING UNITS

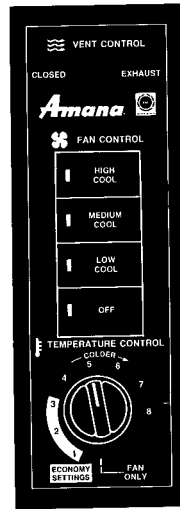
Amana Portable Series

Operation (Rotary dial). The upper dial is the Fan Control. The lower dial is the Thermostat Control. These units are available in two-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for an explanation of control settings.

Operation (Push button). The push buttons operate the Fan Control. The dial is the Thermostat and Fan Only Control. These units are available in three-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for an explanation of control settings.

Front Grille and Air Filter. These units feature a front grille with a removable insert that permits access to the air filter. The insert can be removed by grasping the front grille at the bottom center, lifting and pulling the insert out. The permanent foam air filter may be removed for cleaning as explained in Section 6.

Electrical Connections. All portable models feature 115 volt operation. Models that draw 7.5 amps or less can be plugged into multiple outlet circuits where local electrical codes permit. Refer to the unit nameplate and Section 3 of this



owner's manual for complete electrical requirements.

Mounting. Portable units come with the attached Instant Mount kit. See Section 4 and separate installation instructions for complete information.

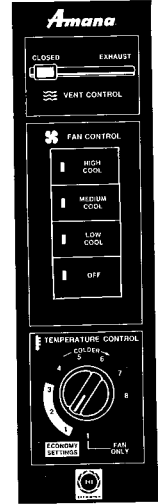
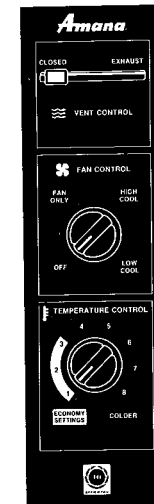
Amana Scot and 100 Series

Operation (Rotary dial). The upper dial is the Fan Control. The lower dial is the Thermostat Control. These units are available in two-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for a complete explanation of control settings.

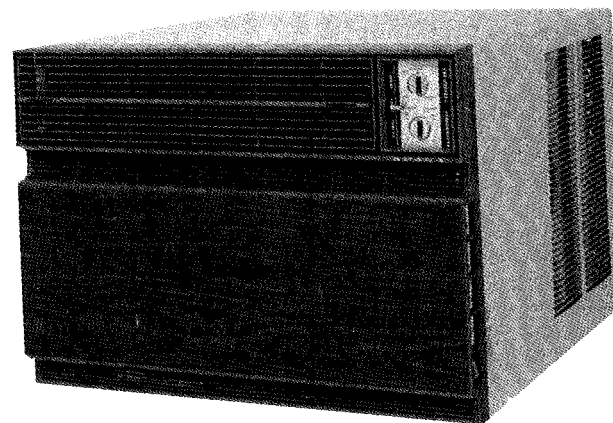
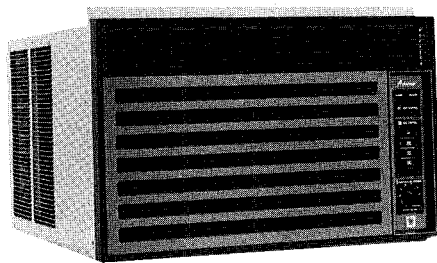
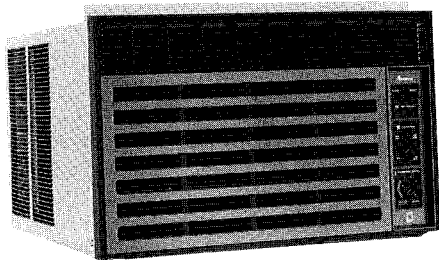
Operation (Push button). The push buttons operate the Fan Control. The dial is the Thermostat and Fan Only Control. These units are available in three-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for an explanation of control settings.

Front Grille and Air Filter. These units feature a front grille with a removable insert that permits access to the air filter. The insert can be removed by grasping the front grille at the bottom center, lifting and pulling the insert out. The permanent foam air filter may be removed for cleaning as explained in Section 6.

Electrical Connections. These units are available in both 115 volt and 230/208 volt models. Refer to the unit nameplate and Section 3 of this owner's manual for complete electrical requirements.



Mounting. Models ES9-2MA and ES12-2MA feature the attached Instant Mount kit. Model ES112-3A is designed for through wall installation. It can be adapted to window installation by purchasing an optional mounting kit. See Section 4 and separate installation instructions for complete information on all three models.



Amana 200 Series

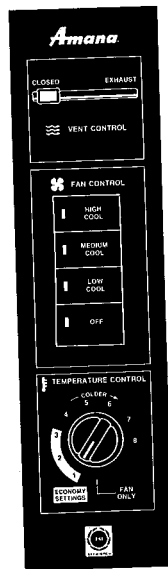
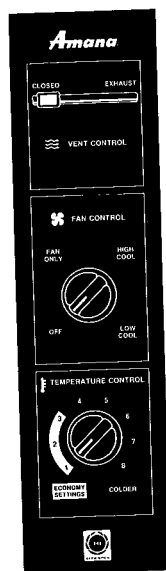
Operation (Rotary dial). The upper dial is the Fan Control. The lower dial is the Thermostat Control, these units are available in two or three-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for a complete explanation of control settings.

Operation (Push button). The push buttons operate the Fan Control. The dial is the Thermostat and Fan Only Control. These units are available in three-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for an explanation of control settings.

Front Grille and Air Filter. These units feature a front grille with a removable insert that permits access to the air filter. The insert can be removed by grasping the front grille at the bottom center, lifting and pulling the insert out. The permanent foam air filter may be removed for cleaning as explained in Section 6.

Electrical Connections. These units operate on 230/208 volts. Refer to the unit nameplate and Section 3 of this owner's manual for complete electrical requirements.

Mounting. To mount in a window, this unit requires the standard mounting kit. See Section 4 and separate installation instructions for complete information.



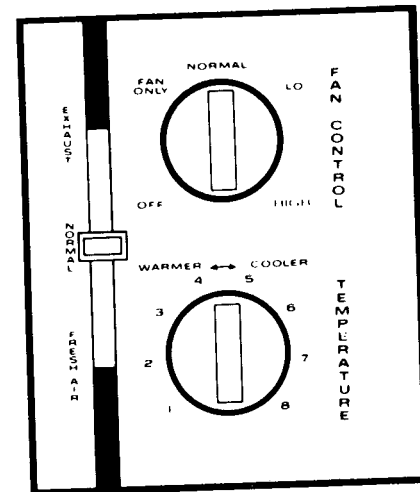
Amana 600 Series

Operation. The upper dial is the Thermostat Control. The lower dial is the Fan Control. The sliding control to the left is the Air Control. Refer to Section 7 for an explanation of control settings.

Front Grille and Air Filter. The front grille of these units is attached to the outcase by coinhead screws, one at each end of the grille. The front grille may be removed by removing these screws. The permanently framed filter fits in two vertical channels on the front of the air conditioner, behind the front grille. To remove, grasp the top and bottom edges near the middle of the filter and pull out. To replace, insert the left edge in the channel, bow slightly, and slip the right edge into the other channel. Clean as explained in Section 6.

Electrical Connections. These units operate on 230/208 volts. Refer to the unit nameplate and Section 3 of this owner's manual for complete electrical requirements.

Mounting. These units come with a separate standard mounting kit. See Section 4 and separate installation instructions for complete information.



9. HEAT/COOL UNITS

Amana 100 Series Heat Pumps

Read Section 5 about heat pumps.

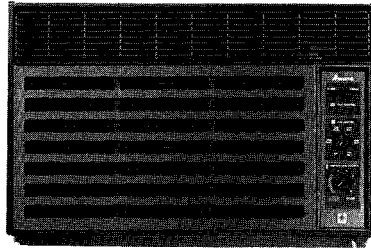
Operation. The upper dial is the Fan Control. The lower dial control is the Thermostat. These units are available in two-speed models. The sliding control is the Air Control. Refer to Section 7 for a complete explanation of control settings.

Front Grille and Air Filter. These units feature a front grille with a removable insert that permits access to the air filter. The insert can be removed by grasping the front grille at the bottom center, lifting and pulling the insert out. The permanent foam air filter may be removed for cleaning as explained in Section 6.

Electrical Connections. These units are available in either 115 volt or 230/208 volt. Refer to the unit nameplate and Section 3 of this owner's manual for complete electrical requirements.

Mounting. These models are designed for through the wall installation. They can be adapted to window installation by purchasing an optional mounting kit. See Section 4 and separate installation instructions for complete information.

Heating Operation. The 115 volt model heats by reverse cycle (Heat Pump) only. It features an automatic defrost system to remove excess frost on the outdoor coil. Operation of this unit is not recommended when outdoor temperatures are 32°F or less. The 230/208 volt models switch automatically from reverse cycle Heat Pump to auxiliary electric heating at approximately 40°F. There is no minimum operating temperature. In order to provide heating, the Fan Control must be set on one of the heating settings.



Amana 200 Series Heat Pumps

Read Section 5 about heat pumps.

Operation. The upper dial is the Fan Control. The lower dial is the Thermostat Control. These units are available in two-speed models. Models have a sliding vent control at the top of the control panel. Refer to Section 7 for a complete explanation of control settings.

Front Grille and Air Filter. The front grille of this unit features a removable insert that permits access to the air filter. The insert can be removed by grasping the front grille at the bottom center, lifting and pulling the insert out. The permanent foam air filter may be removed for cleaning as explained in Section 6.

Electrical Connections. This unit operates on 230/208 volts. Refer to the unit nameplate and Section 3 of this owner's manual for complete electrical requirements.

Mounting. This unit can be built in through the wall or installed in the window with the standard mounting kit available as an option. See Section 4 and separate installation instructions for complete information.

Heating Operation. This model features reverse cycle heat pump operation with auxiliary electric heat. At approximately 40°F they switch to electric heat and therefore have no minimum operating temperature. In order to provide heating, the Fan Control must be set on one of the heating settings.

