

Installation Instructions

For A-Kit 22"

Please read ALL instructions before installing. Two people are recommended to install this product. If a new electrical outlet is required, have the outlet installed by a qualified electrician *before* installing unit. See #5 in Preliminary Instructions following.

Preliminary Instructions

Do the following before starting to install unit. See illustrations below.

- 1. Check window opening size** - the mounting parts furnished with this air conditioner are made to install in a wooden sill double-hung window. The standard parts are for a window opening of 30" (711 mm) minimum to 42" (1067 mm) maximum width. Open sash to a minimum of 19" (483 mm). (FIG. 1)
- 2. Check condition of window** - all wood parts of window must be in good shape and able to firmly hold the needed screws. If not, make repairs before installing unit.
- 3. Check your storm windows** - you will need 1/2" (13 mm) clearance below window stool. If storm window frame does not allow the clearance required, correct by adding a piece of wood as shown in FIG. 2, or by removing storm window while room air conditioner is being installed. (continued)

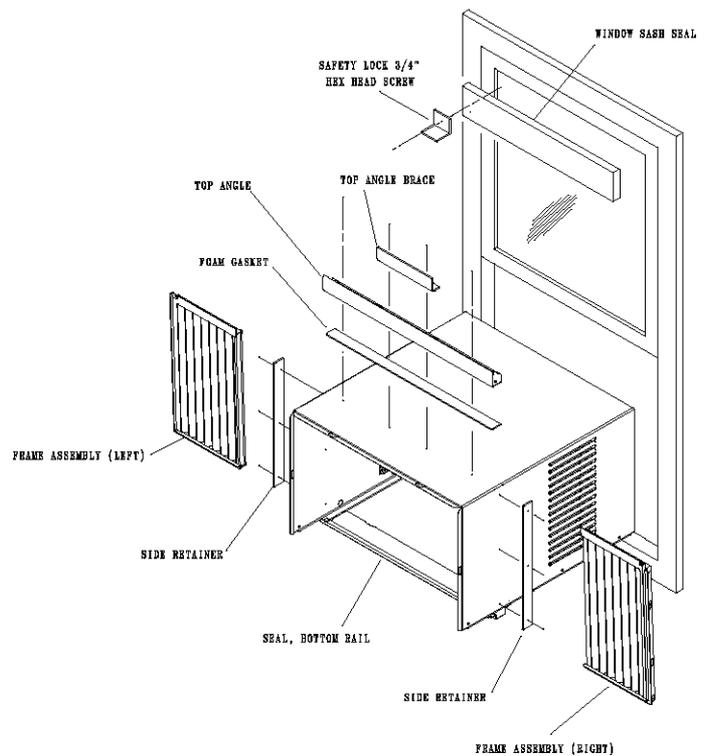
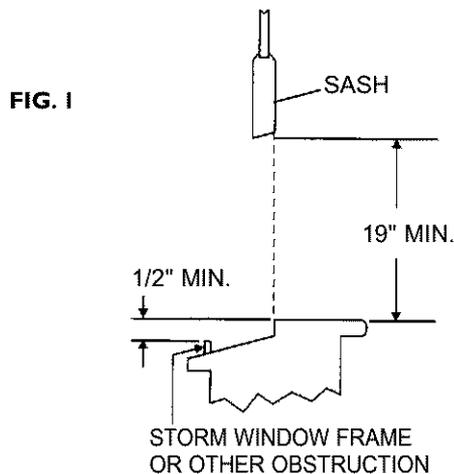
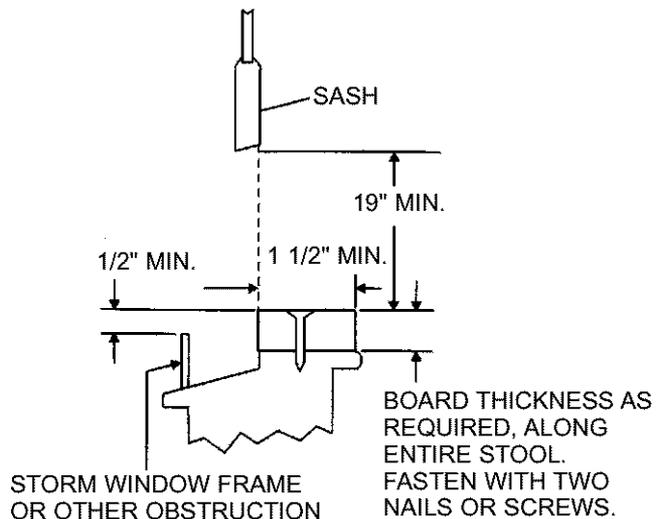


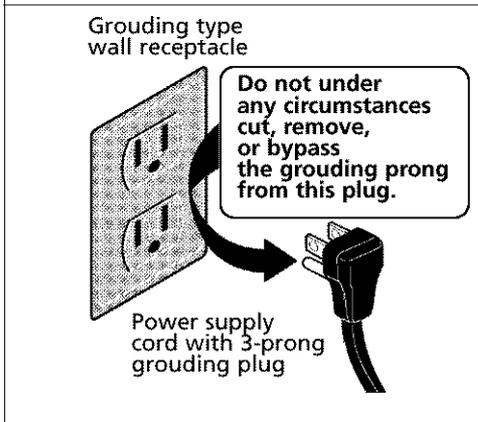
FIG. 2



4. **CHECK FOR ANYTHING THAT COULD BLOCK AIRFLOW** - check area outside of window for things such as shrubs, trees, or awnings. Inside, be sure furniture, drapes, or blinds will not stop proper airflow.
5. **Check the available electrical service** - power supply must be the same as that shown on the unit serial nameplate. (See Owner's Guide for serial plate location.) Power cord is 48" long. Be sure you have an outlet near. It is best to not use extension cords!

All models have a 3-prong service plug to provide proper service and safe positive grounding. Do not change plug in any way. Do not use an adapter plug. If your present wall outlet does not match your plug, call a qualified electrician to make the needed change.

⚠ WARNING Avoid fire hazard or electric shock. Do not use an extension cord or an adapter plug. Do not remove any prong from the power cord.



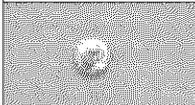
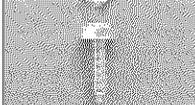
6. **Carefully unpack air conditioner** - remove all packing material. Protect floor or carpet from damage. Two people should be used to move and install unit.

Tools Required

- ✓ a large flat blade screwdriver
- ✓ #2 Phillips screwdriver
- ✓ tape measure
- ✓ pliers
- ✓ sharp utility knife
- ✓ pencil



Hardware (in plastic bag)

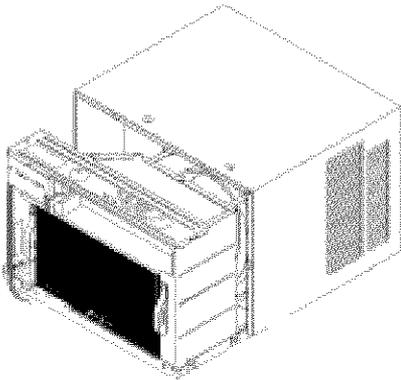
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Window Mounting

1 Remove Chassis

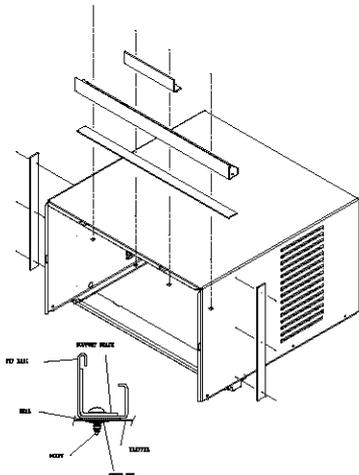
1. To slide chassis from cabinet, hold cabinet with left hand, while pulling on strap provided at the front of the unit.
2. Do not remove formed foam at the front of the unit.

STRAP NOTE: Do not use strap for lifting unit. It is for sliding chassis WITHIN cabinet only (to aid in cleaning, maintenance, etc.). Be CAREFUL of sharp edges on coil fins.



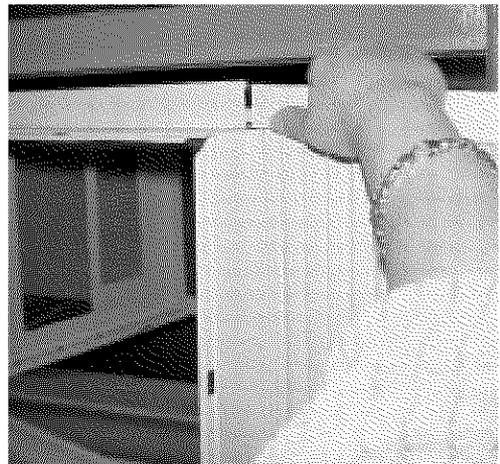
2 Install Top Angle and Side Retainers

1. Attach foam gasket to Top Rail and Side Retainers as shown in FIG. 1.
2. Install Top Rail Support Brace, and Side Retainers to cabinet as shown using screws and (4) speed nuts to secure



3 Assemble Window Filler Panels

1. Place cabinet on floor, a bench, or a table.
2. Slide "I" section of window filler panel into side retainer on the side of the cabinet (see Figures 3-4). Do both sides.

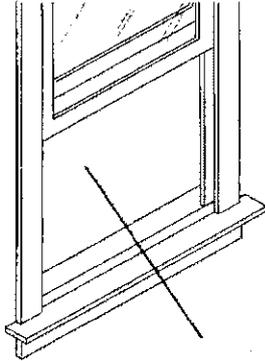


3. Insert top and bottom legs of window filler panel frame into the channel of the Top Rail and Bottom Rail. Repeat on other side.

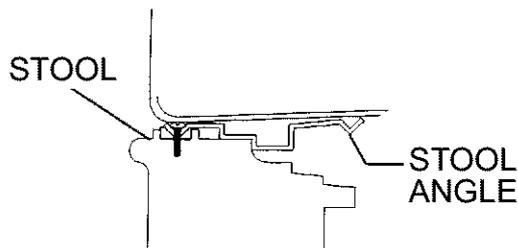
(continued)

4 Place Cabinet in Window

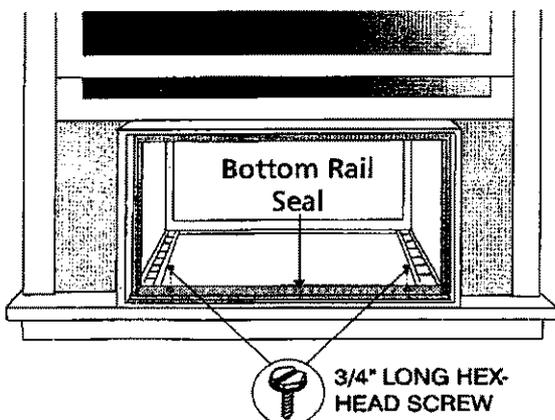
1. Open window. Mark center of window stool.



2. Place cabinet in window with bottom stool angle firmly seated over window stool as shown. Bring window down behind top angle to hold cabinet in place.



3. Shift cabinet left or right as needed to line up center of cabinet on center line marked on stool.
4. Fasten cabinet to window stool with 2 screws into holes. (You may wish to pre-drill pilot hole using 1/8" diameter drill.)
5. Add bottom rail seal over screws to window stool.



5 Install Window Lock and Sash Seal

1. Trim sash seal to fit window width. Insert into space between upper and lower sashes.

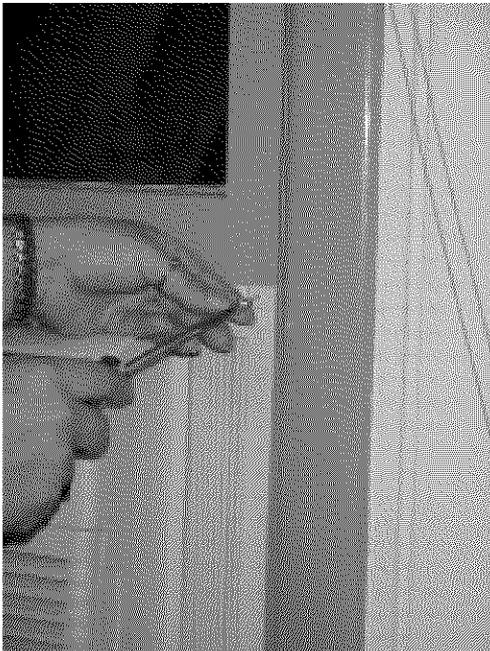


2. Holding the sash down behind the back of the Top Rail (as shown) attach the safety lock. (You may wish to pre-drill a pilot hole using a 1/8" diameter drill.)



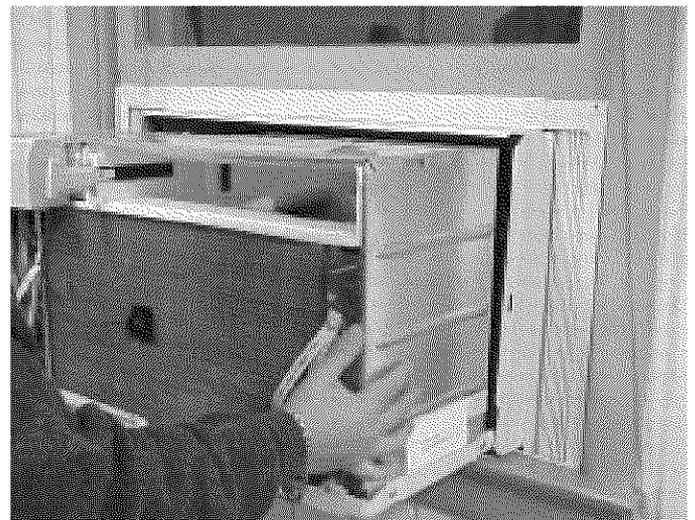
6 Extend Window Filler Panels

1. Extend panels to fill window opening completely. Install the (2) Frame to Sash screws as shown.



7 Install Chassis into Cabinet and Install Front to Unit

1. Lift chassis and carefully slide it into installed cabinet.
2. **CAUTION** Do not push on controls OR finned coils. You could damage unit, or cut hands.
3. Be sure chassis is firmly seated towards rear of cabinet.
4. Refer to Owner's Guide for front installation.



Thru-The-Wall Installation

NOTE: Consult local building codes prior to installation, or a qualified carpenter.

1 Select Wall Location

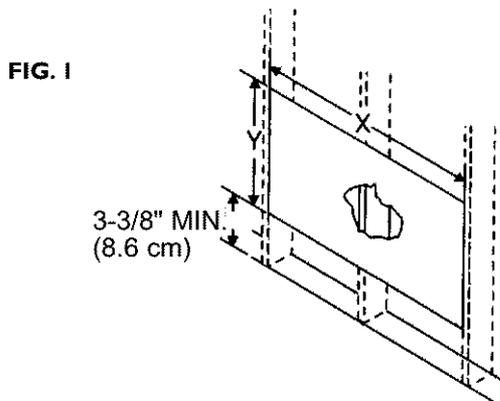
This air conditioner has a slide-out chassis, so it can be installed through an outside wall up to 7" (178 mm) thick. **IMPORTANT:** Side louvers must never be blocked.

NOTE: All parts needed for Thru-The-Wall Installation are provided, except a wood frame, shims, and 10 wood screws (#10-1" long minimum (25 mm)). Select a wall surface that:

1. does not support major structural loads such as the frame construction at ends of windows, and under truss-bearing points, etc.
2. does not have plumbing or wiring inside.
3. is near existing electrical outlets, or where another outlet can be installed.
4. faces, and is not blocked to the area to be cooled.
5. allows unblocked airflow from rear sides and end (outside) of installed air conditioner.

2 Prepare Wall

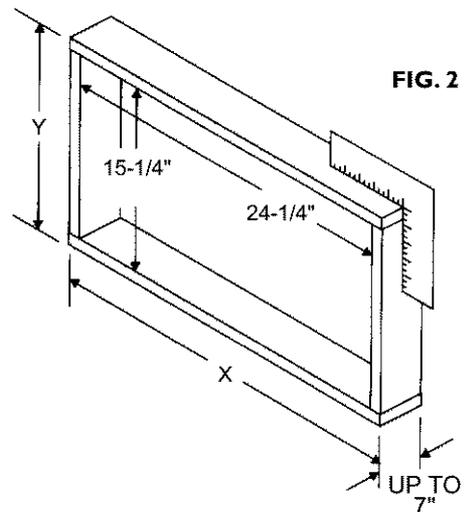
1. Prepare wall in frame construction (including brick and stucco veneer). Working from inside the room, find wall stud nearest the center of area where air conditioner will be installed (by sounding wall, or by magnetically finding nails).
2. Cut or knock out a hole on each side of center stud.
3. Measure between inside edges of every other stud as shown in FIG. 1.



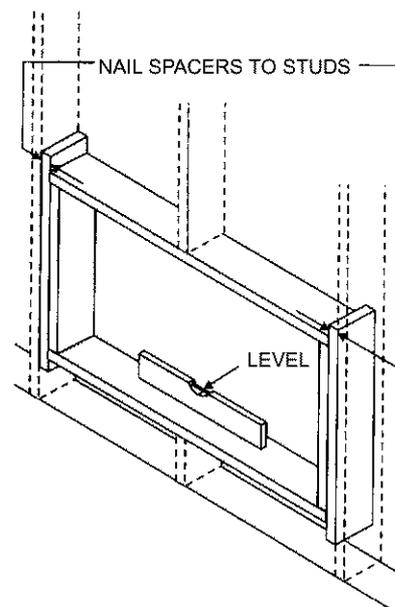
Carefully measure and cut an opening with the following dimensions. See FIGS. 1 and 2.

WIDTH "X" = 24-1/4" plus twice the thickness of framing material used.

HEIGHT "Y" = 15-1/4" plus twice the thickness of framing material used.



4. Build a wooden sleeve with the INSIDE dimensions of 24-1/4" in width and 15-1/4" in height. Frame depth should be the same as wall thickness. Fill in the space from the opening to the studs with wood spacers, as shown.
5. Nail frame to spacers with front flush with drywall.



NOTE: If wall thickness is 7" (178 mm) or more, add aluminum flashing over bottom of frame opening to assure no water can enter area between inner and outer wall.

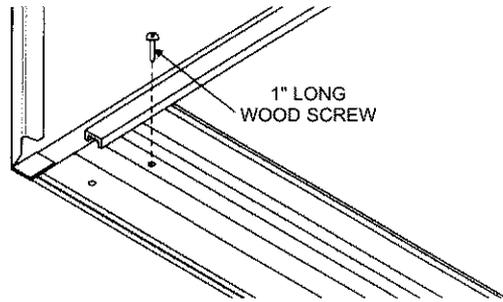
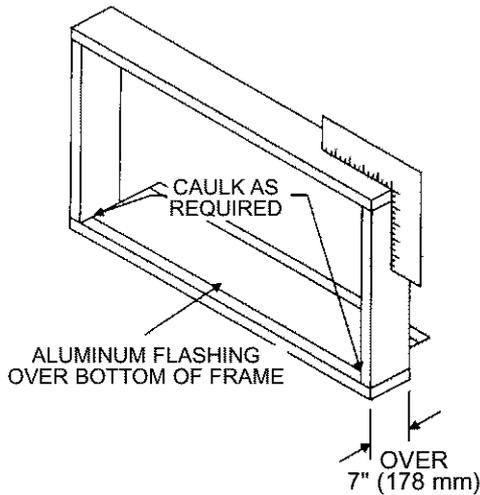
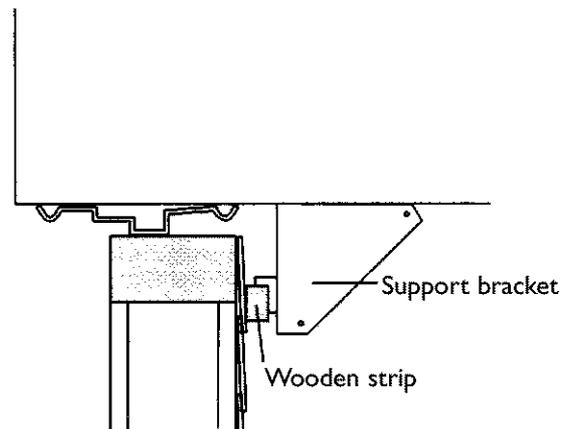


FIG. 2

OPTIONAL: Support brackets may be used. Installation brackets are recommended for walls under 5" thick.

Refer to Step 4 of Window Mounting for assembly of support brackets. A wooden strip nailed to the outside wall should be used in conjunction with sill support angle brackets.

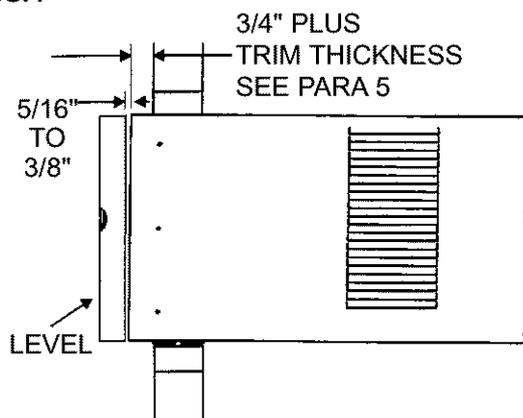


5. Screw or nail cabinet to wooden frame using shims if frame is oversized, to eliminate distortion. Remember to maintain proper slope as described in Step 3.

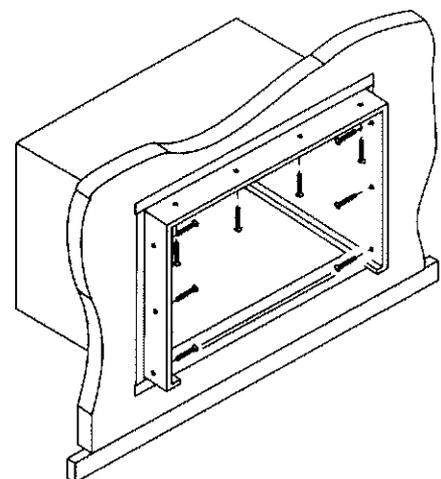
3 Prepare and Install Cabinet

1. Slide chassis from cabinet. Refer back to Step 1 of Window Mounting.
2. Place cabinet into opening with bottom rail resting firmly on bottom board of wooden frame.
3. Position cabinet to achieve proper slope for water removal. (See FIG. 1 below.)

FIG. 1



4. Secure bottom rail to wood frame with two large wood screws 1" (2.5 cm) long using the two holes in the bottom of the channel resting on frame. (See FIG. 2 following.)



6. Install chassis into cabinet by following all steps in Step 8 of Window Mounting. (continued)

OPTIONAL: Caulking and installation of trim on interior wall may be done. You can buy wood from your local lumber or hardware supply. On the outside, caulk openings around top and sides of cabinet, and all sides of wood sleeve to the opening.

NOTE: See Step 7, Item 3 of Window Mounting Instructions for bottom rail seal location.

Masonry Construction

1. Cut or build a wall opening in the masonry wall similar to the frame construction (refer to Step 2 of Thru-the-Wall Installation for a wall thickness greater than 8-1/2").
2. Secure cabinet in place using masonry nails, or the right masonry anchor screws. (Another way to do this is to build an in-between frame of 2x4's (51 mm x 102 mm) as shown in the Step 2 Prepare Wall illustrations— but make it double framed on either side, and install between masonry wall opening and cabinet. Frame must be securely anchored to masonry wall opening.) This way gives very good louver clearance on either side of cabinet.
3. Install a lintel to support masonry wall above cabinet. Existing holes in cabinet can be used and/or additional holes can be drilled to fasten cabinet at various positions. Be sure that side louver clearance is in accordance with Step 1 above.
4. Install exterior cabinet support brackets as shown in Step 2 of Thru-the-Wall Installation. Caulk or flash if needed, to provide a weather-tight seal around top and sides of cabinet.
5. To complete installation, apply wood trim molding around room side projection of cabinet.