

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.

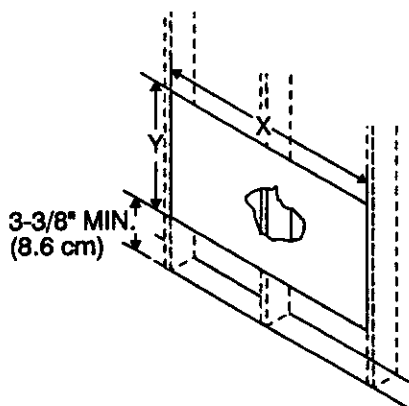
NOTE: All parts needed for Thru-The-Wall Installation are provided, except a wood frame, shims, and 10 wood screws (#10-1" long minimum (25 mm)). Select a wall surface that:

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.

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.

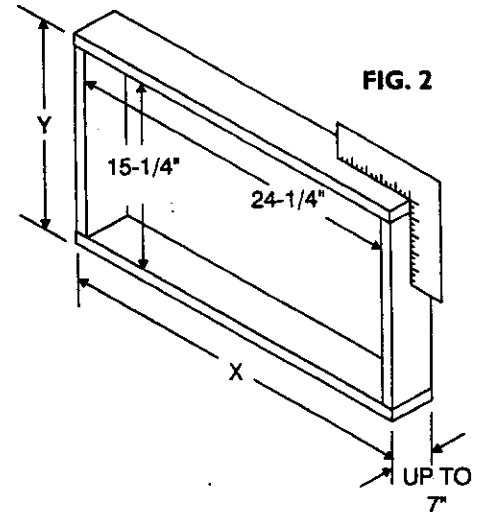
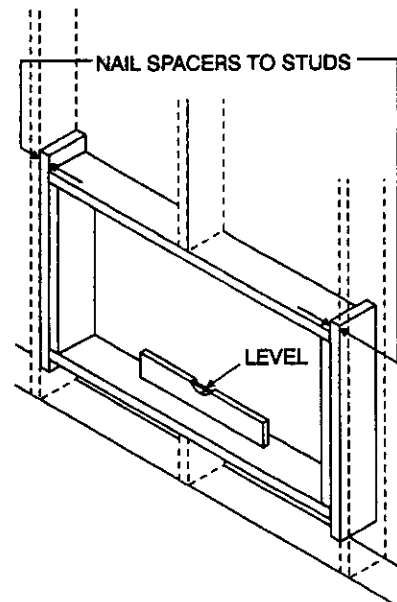
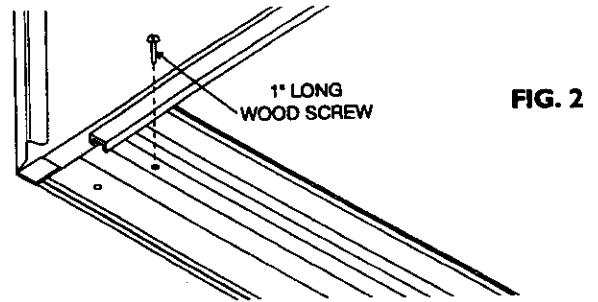
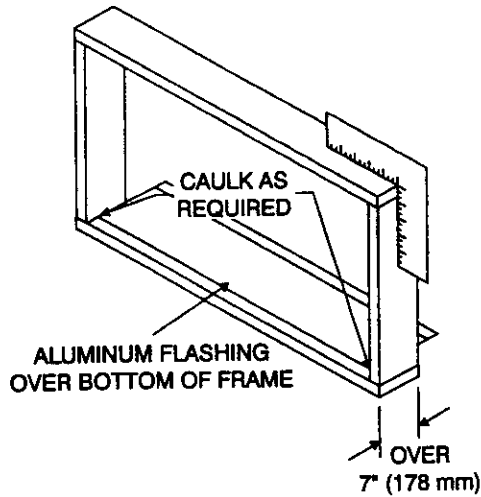


FIG. 2

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.

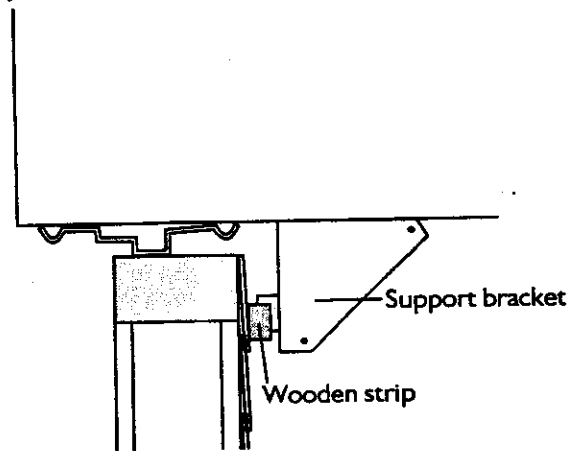


NOTE: If wall thickness is 7" (178 mm) or more, add aluminum flashing over bottom of frame opening to assure no water can enter area between inner and outer wall.



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

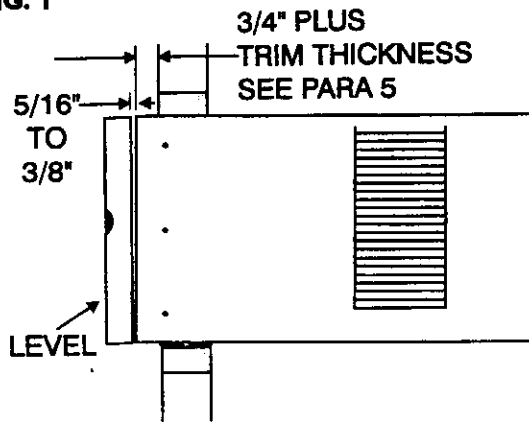
Refer to Step 4 of Window Mounting for assembly of support brackets. A wooden strip nailed to the outside wall should be used in conjunction with sill support angle brackets.



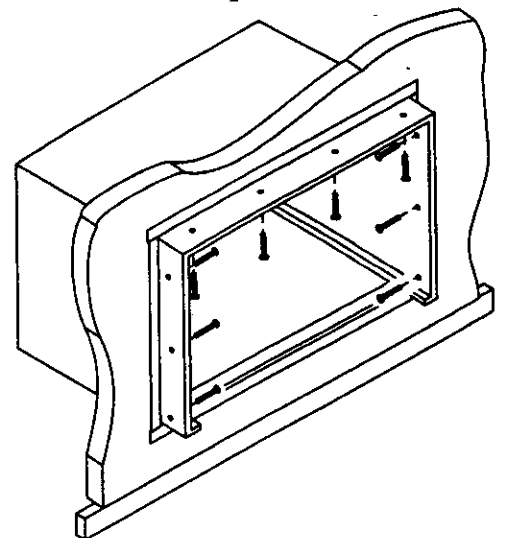
3 Prepare and Install Cabinet

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



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.



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.