

Dura-Craft, Inc.

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Assembly Instruction

VM 800 VICTORIAN MANSION MINIATURE HOUSE KIT

FINISHED SIZE 25" x 52" x 45"



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PATENTS PENDING

REV 14-83

VM-800 VICTORIAN MANSION

Congratulations on selecting a miniature house kit manufactured by Dura-Craft, Inc., the leader in the industry.

All pine parts used in our kits are manufactured from the finest kiln dried Ponderosa Pine. We pride ourselves on our high quality and workmanship. Each piece is graded and sorted at several different stages to ensure that you receive the finest quality.

The houses manufactured by Dura-Craft are not modeled after any specific existing houses. Rather they are composites of several different houses, to give you what we feel is a true and accurate representation of the houses of

their style and era.

A Dura-Craft miniature house is a **complete** kit. This means that you do not have to purchase separately items such as siding, window glass, and split cedar shakes, which are a basic part of a house. Your finished house will be ready for painting, wallpapering, and decorating. Dura-Craft does not sell the materials for decorating; however, they should be available through the store where you bought your kit.

Your finished house will be of heirloom quality, of which you will be justly proud, if ample time and care are used in its construction and finishing.

GENERAL INSTRUCTIONS

There are several construction tips that will help you avoid some problems when you build your miniature house.

An important thing to keep in mind about the kit parts: First, they are made of wood. Wood shrinks and expands according to the humidity. We have found that the siding is most sensitive to dimension changes due to humidity. All siding used in Dura-Craft miniature houses is made from the finest kiln dried Ponderosa Pine. However, as a result of changes in siding dimensions brought on by humidity changes, when a wall is assembled with a water base glue, some swelling will occur. Wall panels should be left in a warm dry room at least 48 hours before corner posts are attached. This will prevent walls from cracking. At no time should the house be placed in a cold damp area.

If there is a minor cracking problem, there is a simple solution. A thick bead of white glue should be run into the gap. Wipe off any excess glue and allow to dry. If necessary, repeat this step until the gap is filled. When the house is painted, there will be no evidence of the gap. We recommend a good quality **OIL** base paint be applied on any siding to be painted.

Your Dura-Craft miniature house has been designed so

that you can assemble it with a minimum of difficulty. Some steps require that careful attention be paid to using the correct part.

The kit has been packaged in a way that should assure that all parts are present. The major parts such as siding are easily identified. Other parts will be identified as you go along checking the parts.

There are several steps that must be followed to make the assembly of your house easier. The first is to read through the instructions carefully to get a feeling for the assembly process. Next, using the parts list and parts drawings, check the parts and group them according to the categories used on the parts list. As you do this, you will become familiar with the parts. Also, if any parts are missing or damaged, they can be replaced by Dura-Craft quickly, so that your assembly process will not be held up. Please refer to the missing parts and broken parts order form.

Wall panels do not come assembled in the kit. Follow instructions to assemble wall panels.

NOTE: For shortages or broken parts write directly to Dura-Craft, Inc. for replacement, using the form on the last page of this manual.

SUBASSEMBLY NO. 1

WALL PANELS

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ framing square
 - ☐ ruler or tape measure
 - ☐ pencil
 - ☐ several large books to use as weights
 - ☐ a dispenser of woodworking glue
 - ☐ 100 grade (medium) sandpaper
 - ☐ a roll of waxed paper
 - ☐ masking tape
2. ☐ Locate the parts. You will need the following parts:

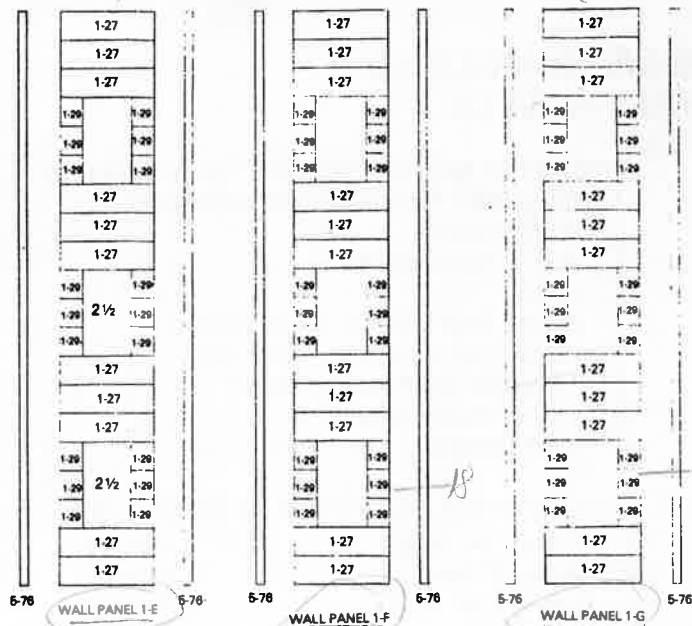
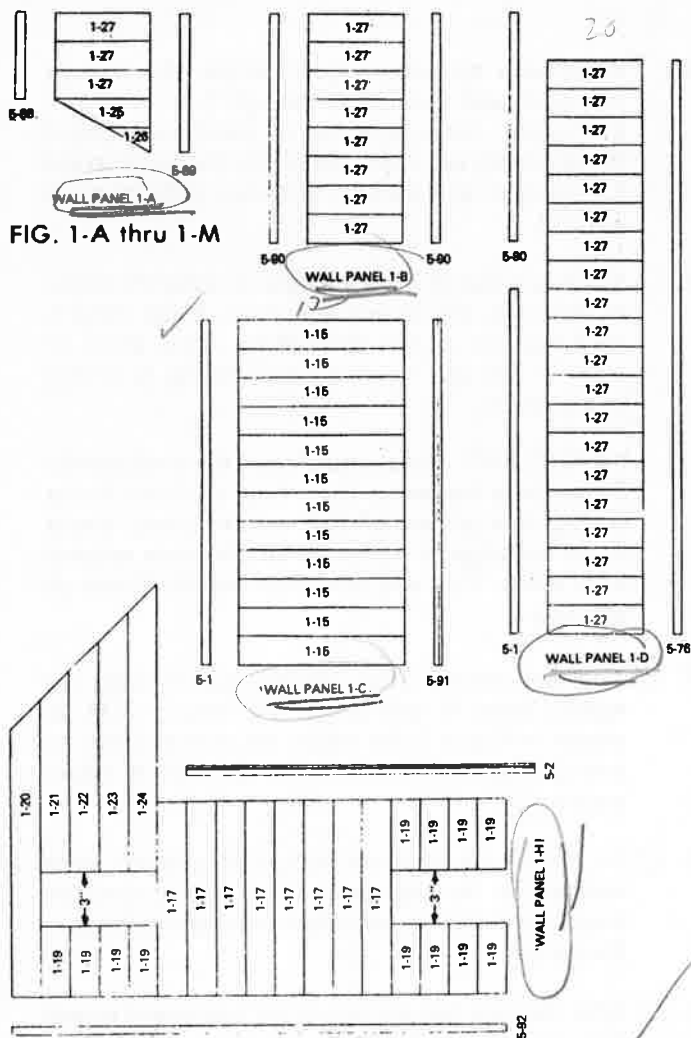
1-2	Siding, 14" long	6 piece
1-4	Siding 3" long	12 pieces
1-6	Siding 5½" long	30 pieces
1-11	Siding 2" long	12 pieces
1-14	Siding 8½" long	6 pieces
1-15	Siding 9¼" long	12 pieces
1-17	Siding 11" long	20 pieces
1-19	Siding 4" long	12 pieces
1-20	Siding 16½" long, 45° cut-right	
1-21	Siding 10½" long, 45° cut-right	
1-22	Siding 12¾" long, 45° cut-right	
1-23	Siding 13½" long, 45° cut-right	
1-24	Siding 15½" long, 45° cut-right	
1-25	Siding 5¼" long, 30° cut left	
1-26	Siding 2½" long, 30° cut-left	
1-27	Siding 5¼" long	
1-29	Siding 13½" long	
3. ☐ Prepare the parts for assembly. Finish sand the wood surfaces to remove splinters and rough spots.
4. ☐ Pre-assemble the siding **without** glue. Lay the pieces flat side down, as shown in Figures 1A-1M. The tongue is on the **top** edge of each board.
5. ☐ Use the framing square to ensure that the ends of the siding pieces are properly aligned. Measure the widths of the door and window openings **very carefully** and make light pencil marks at the top and bottom of each opening. The proper widths of the door and window openings are given in Figures 1A-1M.
6. ☐ Prepare an area for gluing. You will need a hard, flat surface at least three by four feet in size. Select a location where the wall panels will not have to be disturbed for several hours after gluing. Tape waxed paper over the entire surface.
7. ☐ Use the following technique for gluing the wall panels: Apply a thin bead of glue to the tongue. Then seat it in the groove. Immediately wipe off any surplus glue that squeezes out, using a damp — but not wet — cloth. Assemble the panels flat side down on the waxed paper. The panels should be assembled in sections that can be handled easily, as outlined below.

8. ☐ Begin with the ground floor section (the first six layers) of wall panels 1-C through 1-M, as shown in Figure 1. Make sure that all parts are arranged in the correct sequence relative to the pencil marks for the door and window openings (refer to steps 4 and 5).

9. ☐ Make sure that all joints are tight, and that the edges of the walls are square and flush. Place weights on the panels as you finish them. Allow about an hour for the glue to set before moving or adding to the panels.

IMPORTANT: If you must leave the wall panels incomplete for more than two or three hours during this phase of the construction, stand them on edge to allow air to circulate around both sides. This will minimize the likelihood of warping.

10. ☐ Add the second story section (up through the twelfth layer) to wall panels 1-C through 1-M, as shown in Figure 1. As before, be sure all parts are arranged in the correct sequence, with all edges square.
11. ☐ Be sure all the joints are tight, then carefully place weights on the wall assemblies. Allow about an hour for the glue to set before moving or adding to the panels.
12. ☐ After the glue has set, stand the completed panels (1-C and 1-I through 1-M) on edge to allow air to reach both sides. Let the glue dry for 24 hours.
13. ☐ Add the third story section (all the remaining layers) to wall panels 1-D through 1-H, as shown in Figure 1. Again be sure all parts are arranged in the correct sequence relative to the pencil marks for the door and window openings.
14. ☐ Make sure that all joints are tight, and that the edges are square and flush. Place weights on the panels as you complete them. Allow about an hour for the glue to set, then stand the completed panels on edge to allow air to reach both sides. Let the glue dry for 24 hours.
15. ☐ Assemble the last two wall panels, 1-A and 1-B, as shown in Figure 1. Check the edges to ensure that they are square and flush. Be sure all the joints are tight.
16. ☐ Place weights on the assemblies and allow an hour for the glue to set, then stand the panels on edge to allow air to reach both sides. Let the glue dry for 24 hours.



SUBASSEMBLY NO. 2 GABLE ENDS

- ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ ½ pint of sealer
 - ☐ 1-inch paint brush
 - ☐ thinner
 - ☐ a framing square
 - ☐ a pencil
 - ☐ a dispenser of woodworking glue
 - ☐ a roll of waxed paper
 - ☐ a sharp utility knife
- ☒ Locate the parts. You will need the following parts and subassemblies:
 - ☐ 4-13, Wing Gable, 1 piece
 - ☐ 4-36, Main Gables, 2 pieces
 - ☐ 5-17, Shakes (Plain)
 - ☐ 5-18, Shakes (Fancy)
 - ☐ Wall Panel 1-H
 - ☐ Wall Panel 1-J
 - ☐ Wall Panel 1-M
- ☐ Brush a thin coat of sealer onto the rough side of each of the gables. Allow the sealer to dry.
- ☐ Use the utility knife or a plane to carefully shave the tongue from the top piece of the siding on each of the wall panels (1-H, 1-J and 1-M).
- ☐ Lay one of the main gables (part no. 4-36) on the table, rough side facing up. Measure along the bottom edge 5-½ inches in from the left corner, and use the square to draw a vertical line from that point (Figure 2).
- ☒ Now measure 3 inches up the vertical line and make a mark. Measure along the bottom edge of the gable 3 inches in each direction from the vertical line, and make marks at those points. Draw the balcony roof outline, as shown in Figure 2.

7. ☐ Measure 1- $\frac{1}{4}$ inches up from the bottom of the gable end and draw a line parallel with the bottom edge (Figure 2). Now draw lines at one inch intervals the rest of the way up the gable.
8. ☐ Lay the other main gable (part no. 4-36) and the wing gable (part no. 4-13) on the table, rough side facing up. Draw the shake guidelines on them exactly as described in Step 7.
9. ☐ Spread out waxed paper on a flat surface. Apply glue to the top edge of wall panel 1-H, then lay it face-up on the waxed paper. Lay the gable with the balcony roof outline in position on top of the wall panel. Allow the glue to set before proceeding with step 12.
10. ☐ Apply glue to the top edge of wall panel 1-M, then lay it face-up on the waxed paper. Lay the other main gable (part no. 4-36) in position on top of the wall panel. Be sure the gable overhangs equally on each side of the wall panel, as shown in Figure 3. Allow the glue to set
11. ☐ Glue the wing gable (part no. 4-13) in position on wall panel 1-J using the method described in step 10. Allow the glue to set before proceeding.
12. ☐ Using the first horizontal line as a guide, glue a row of plain shakes (part no. 5-17) over the joints between the gable ends and the wall panels, as shown in Figure 4. Apply glue heavily under these shakes. Do not lay any shakes inside the balcony roof outline. Allow the glue to dry before proceeding.

13. ☐ Glue the fancy shakes (part no. 5-18) onto the gable ends in the overlapping pattern shown in Figure 5. Use the utility knife to individually cut the shakes to fit around the balcony roof outline. Let the shakes hang over the edges of the gables until the glue has dried.
14. ☐ After the glue has thoroughly dried, turn the wall panel face-down, and use the utility knife to trim the shakes flush with the gable ends. Start at the lower corners and cut toward the peak of the roof to minimize the chances of splitting the shakes.

FIG. 4

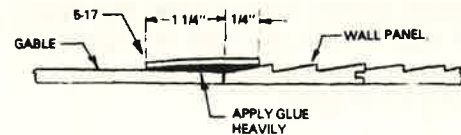
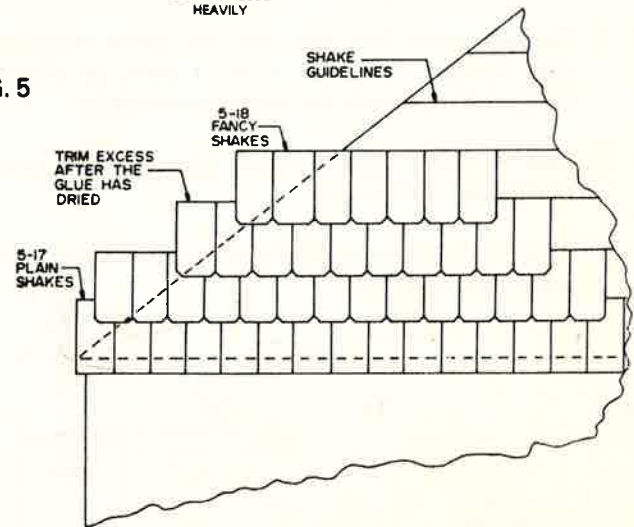


FIG. 5



SUBASSEMBLY NO. 3 FLOOR SUPPORTS AND GABLE END SUPPORTS

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ a dispenser of woodworking glue
 - ☐ a utility knife or coping saw
 - ☐ a yardstick
 - ☐ a pencil
 - ☐ 100 grade (medium) sandpaper
2. ☐ Locate the parts. You will need the following parts and subassemblies:
 - ☐ 5-46, Floor Support, 8 pieces
 - ☐ 5-47, Main Gable Support, 3 pieces
 - ☐ 5-63, Wing Gable Support, 2 pieces
 - ☐ 5-75, Front Gable Support, 1 piece
 - ☐ Wall Panels 1-C through 1-M
3. ☐ Lay the wall panels face down. Measure exactly 9- $\frac{5}{8}$ inches up from the bottom, and draw a pencil line across each panel at that point. Draw another line 19- $\frac{3}{8}$ inches up from the bottom.

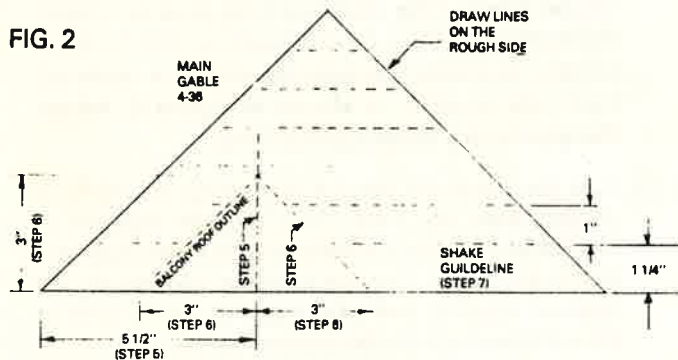
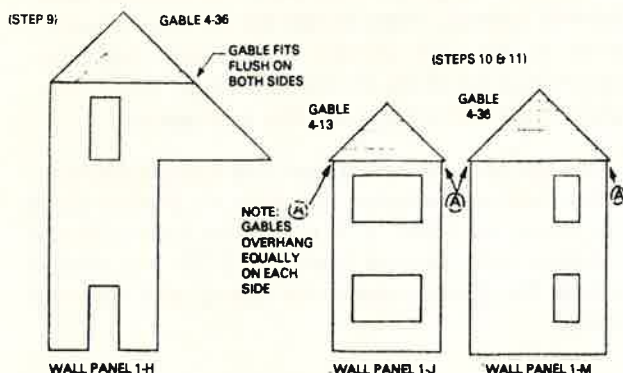


FIG. 3



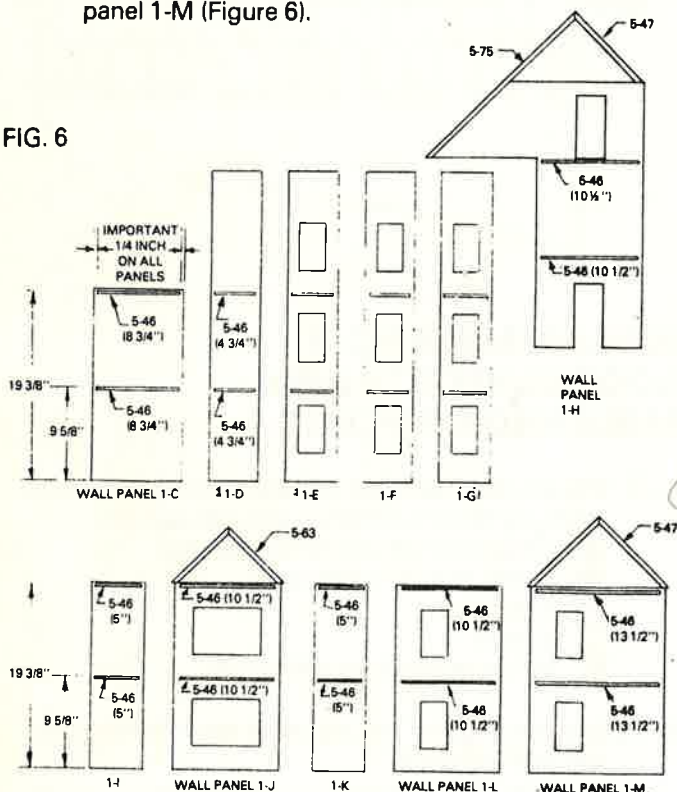
Trim Windows off Monday

4. ☐ Cut the floor support stock (part no. 5-46) into pieces of the following lengths:
 - ☐ 2 pieces 13-½ inches long for wall panel 1-M
 - ☐ 6 pieces 10-½ inches long for wall panels 1-H, 1-J & 1-L
 - ☐ 2 pieces 8-¾ inches long for wall panel 1-C
 - ☐ 4 pieces 5 inches long for wall panels 1-I & 1-K
 - ☐ 8 pieces 4-¾ inches long for wall panels 1-D, 1-E, 1-F & 1-G

It is critical that these pieces be **no longer** than specified, or they may interfere with the installation of the corner posts later in the assembly.

5. ☐ Glue the floor supports onto the wall panels, as shown in Figure 6, so that their **upper** edges are on the previously drawn lines. Center the floor supports from side to side, so there is a quarter-inch space between the end of the floor support and the edge of the wall panel.
6. ☐ On wall panel 1-H, glue the two gable supports (part numbers 5-47 and 5-75) in place as shown in Figure 6, flush with the edges of the gables.
7. ☐ Glue the wing gable supports (part no. 5-63) onto wall panel 1-J (Figure 6).
8. ☐ Glue the gable supports (part no. 5-47 onto wall panel 1-M (Figure 6).

FIG. 6



SUBASSEMBLY NO. 4 STANDARD WINDOWS

1. ☒ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ a dispenser of **wood-working glue**
 - ☐ a tube of model airplane cement

- ☐ a utility knife
- ☐ 100 grade (medium) sandpaper
- ☐ pencil
- ☐ ruler or tape measure
- ☐ waxed paper

2. ☐ Locate the parts. You will be using the following parts and subassemblies:
 - ☐ 6-20, Plastic Sheets, 13 pieces
 - ☒ 2-5, Top and Bottom Window Casings, 39 pieces
 - ☐ 2-22, Window Side Casings, 26 pieces
 - ☐ 2-29, Inside Window Trim, 26 pieces
 - ☐ 2-30, Top & Bottom Window Frames, 26 pieces
 - ☐ 2-33 Window Caps, 13 pieces
 - ☐ 5-49, Window Divider Stock
 - ☐ Wall Panels 1-E, 1-F, 1-G, 1-L and 1-M

3. ☐ Using the model airplane cement, glue the top and bottom window frames (part no. 2-30) to the top and bottom edges of the windows. Be sure the window is fully seated in the groove and centered from side to side, as shown in Figure 7.

4. ☐ Using model airplane cement, glue the window side casings (part no. 2-22) to the sides of the windows. Make sure that the side casings contact the top and bottom frames at all four corners. Lay the assembly face-down while the glue dries.

5. ☐ After the glue from the preceding steps has dried, check the corners to make sure the side casings are flush with the top and bottom frames. Sand them, if necessary, to make them flush.

6. ☐ Arrange the window assemblies face-down on waxed paper. Use woodworking glue to attach the bottom window casing (part no. 2-5) to each window assembly. Be sure the casing is centered from side to side, as shown in Figure 8. Allow the glue to dry before proceeding.

7. ☐ Turn the windows face-up and install the window dividers (part no. 5-49). They may be installed in any pattern to create whatever style of window you desire (Figure 8). *Cut* the window dividers to the required lengths, and glue them to the outside of the windows with model airplane cement.

8. ☐ Lay the five wall panels face-up on the table. Apply woodworking glue to the backs of the side and bottom casings, then install the window assemblies in the wall panels. Make sure they are positioned squarely in the openings. Allow the glue to dry before moving the wall panels.

9. ☐ After the glue has dried, turn the wall panels over. Glue the inside window trim (part no. 2-29) in place as shown in Figure 9. It should be flush with the window side casings (part no. 2-22) and should cover the gap between the casing and the wall panel.

10. ☐ After the glue on the trim pieces has set, install the top and bottom window casings (part no. 2-5) as shown in Figure 9. The ends should overhang evenly left and right.
11. ☐ When the glue on the inside window trim and casings is dry, turn the wall panels face-up and glue the window caps (part no. 2-33) in place over the windows as shown in Figure 8.

FIG. 7

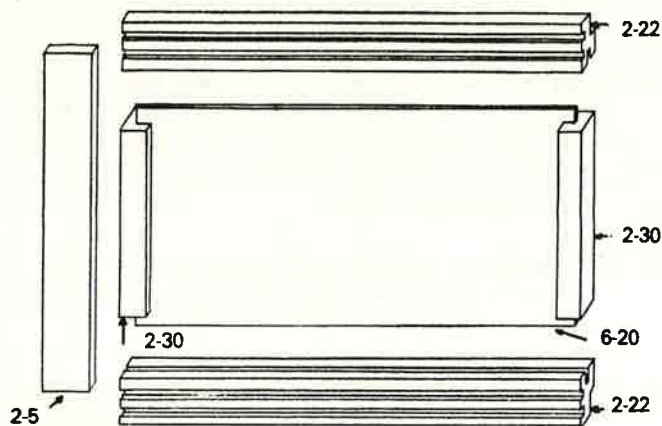


FIG. 8

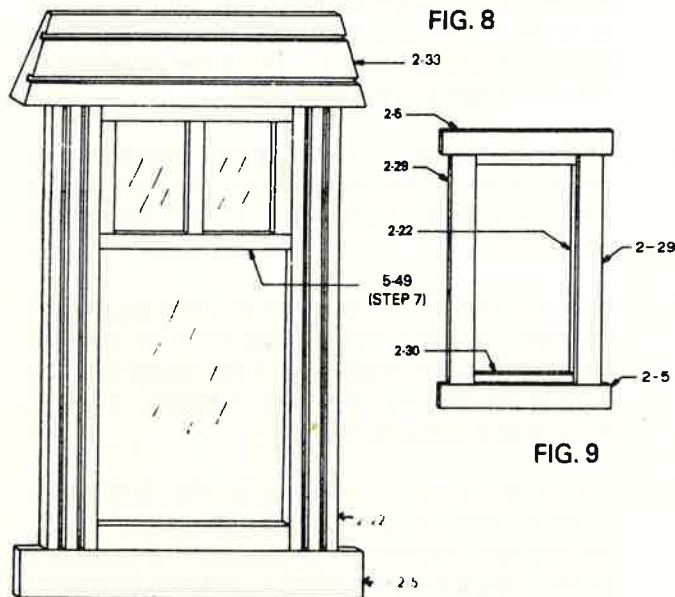


FIG. 9

SUBASSEMBLY NO. 5 BAY WINDOWS

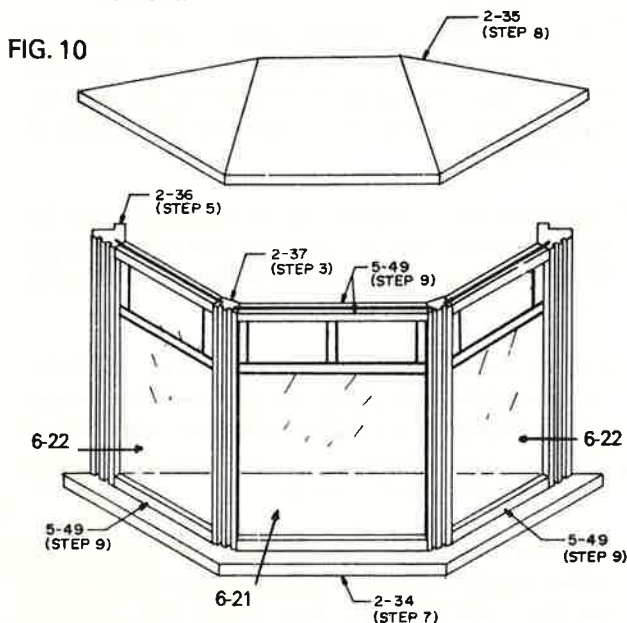
1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
- ☐ a dispenser of woodworking glue
 - ☐ a tube of model airplane cement
 - ☐ a utility knife
 - ☐ masking tape
 - ☐ ruler or tape measure
2. ☐ Locate the parts. You will be using the following parts and subassemblies:
- | | |
|--|----------|
| <input type="checkbox"/> 6-21, Plastic Sheets, | 2 pieces |
| <input type="checkbox"/> 6-22, Plastic Sheets, | 4 pieces |
| <input type="checkbox"/> 2-29, Inside Window Trim, | 4 pieces |

- | | |
|---|----------|
| <input type="checkbox"/> 2-34, Bay Window Bottom, | 2 pieces |
| <input type="checkbox"/> 2-35, Bay Window Top, | 2 pieces |
| <input type="checkbox"/> 2-36, Bay Window Side Casing, | 4 pieces |
| <input type="checkbox"/> 2-37, Bay Window Front Casing, | 4 pieces |
| <input type="checkbox"/> 5-49, Window Divider Stock | |
| <input type="checkbox"/> 2-32, Bay Window Top & Bottom Inside Trim, | 4 pieces |
| <input type="checkbox"/> Wall Panel 1-J | |

3. ☒ Using the model airplane cement, glue the bay window front casings (part no. 2-37) on the sides of the large window pane (Figure 10). Be sure the ends of the casings are flush with the edges of the plastic.
4. ☐ Using the model airplane cement, glue the smaller window panes into the bay window front casings. Be sure the tops and bottoms of the window panes are flush with the ends of the casings.
5. ☐ Making sure they are properly oriented, with the grooved side facing out, install the bay window side casings (part no. 2-36) on the side panes (Figure 10). Use model airplane cement, and be sure the ends are flush with the panes.
6. ☐ Lay the wall panel subassembly face-up on the table. Apply white woodworking glue to the bay window side casings, then install the window assemblies in the wall panel. Make sure they are positioned squarely in the openings. Allow the glue to dry before proceeding.
7. ☐ Apply glue to the bottom ends of the bay window casings and to the back edge of the bay window bottom (part no. 2-34). Position the bay window bottom under the window assembly, against the wall panel and centered from side to side (Figure 10). Tape the part in place until the glue dries.
8. ☐ Apply glue to the top ends of the bay window casings and to the back edge of the bay window top (part no. 2-35). Position the bay window top over the window assembly, against the wall panel and centered from side to side. Tape it in place until the glue dries.
9. ☐ Cut pieces of window divider stock (part no. 5-49) to fit at the top and bottom of each pane in the bay window, as shown in Figure 10. Glue them in place with model airplane cement at the top and bottom of each pane, inside and outside.
10. ☐ When the glue from Step 9 is dry, lay the wall panel face down and install the inside window trim (part no. 2-29) on each side of the bay windows. It should be flush with the window side casings (part no. 2-36) and should cover the joint between the casing and the wall panel.
11. ☐ After the glue from Step 10 has set, install the top and bottom trim (part no. 5-69). The ends should

extend slightly past the side trim, by an equal amount on each side.

12. ☐ Turn the wall panel face-up and install the remaining window dividers (part no. 5-49). They may be installed in any pattern to create whatever style of window you desire (Figure 10). Cut the window dividers to the required lengths, and glue them to the outside of the windows with model airplane cement.



SUBASSEMBLY NO. 6 BALCONY AND BALCONY ROOF

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ a dispenser of **woodworking glue**
 - ☐ masking tape
 - ☐ a utility knife
 - ☐ a ruler
 - ☐ a pencil
 - ☐ a coping saw
 - ☐ a small square
2. ☐ Locate the parts. You will be using the following parts and subassemblies:
 - ☒ 3-20, Balcony Roof, 3 pieces
 - ☐ 5-18, Shakes (Fancy)
 - ☐ 5-70, Bannister Stock
 - ☐ 5-81, Balcony, 1 piece
 - ☐ 5-82, Balcony Support
 - ☐ 6-2, Bannister Post, 24 pieces
 - ☐ Wall Panel 1-H
3. ☐ Cut two 5-inch pieces of bannister stock (part no. 5-70) and four 4-inch pieces, all with 60° angled ends, as shown in Figure 11.
4. ☐ Lay out the cut bannister pieces. Make pencil marks every half inch, next to the groove. These mark the locations for the bannister posts, as shown in Figure 11.

5. ☐ Apply glue to the ends of the bannister posts (part no. 6-2) and install them in the bannisters, as shown in Figure 12. Line up the posts with the pencil marks. Be sure the ends of the assemblies are square! Allow plenty of time for the glue to dry before moving the assemblies.
6. ☐ Glue the balcony support (part no. 5-82) onto the bottom of the balcony (part no. 5-81) as shown in Figure 13. Be sure it is flush with the rear edge of the balcony, and centered from side to side.
7. ☒ Lay out the three balcony roof parts (part no. 3-20) and draw the shake guidelines, as shown in Figure 14. The first line should be 1-¼ inches from the bottom, and the rest are 1 inch apart. All are parallel to the bottom edge.
8. ☒ Arrange the balcony roof parts side by side, as shown in Figure 14. Securely tape the joints between the parts.
9. ☐ Turn the taped balcony roof assembly face down, and apply glue to the troughs formed where the beveled edges come together. Lift the side pieces, to close the troughs and bring the roof assembly into its final shape. Tape or block the assembly to hold the shape until the glue dries.
10. ☐ Check the ends of the bannister assemblies to ensure that the top and bottom rails are square with one another. Square them up with sandpaper, if necessary.
11. ☐ Glue the bannister assemblies in place around the perimeter of the balcony. Tape them in place as required. The rear edges should be square with the back of the balcony, as shown in Figure 13. Allow the glue to thoroughly dry.
12. ☐ Lay the wall panel (1-H) face-up on the table. Apply a heavy bead of glue to the rear edges of the balcony roof assembly, then position the assembly on the wall panel in the location prepared when you installed the gable shakes.
13. ☐ With the wall panel still lying on the table, make a pencil mark at the bottom of the balcony door opening to show the exact center of the doorway. Make a similar mark at the back of the balcony assembly to show its centerline.
14. ☐ Apply a heavy coat of glue to the rear edges of the balcony, balcony support, and bannisters. Position the balcony assembly at the bottom of the door opening, with the center marks lined up with one another. Allow the glue to dry.
15. ☐ Install fancy shakes (part no. 5-18) on the balcony roof, starting at the bottom edge and working toward the top. Cut the shakes to fit the corners.

FIG. 11

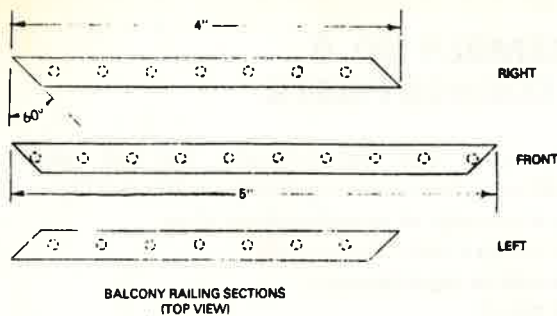


FIG. 12

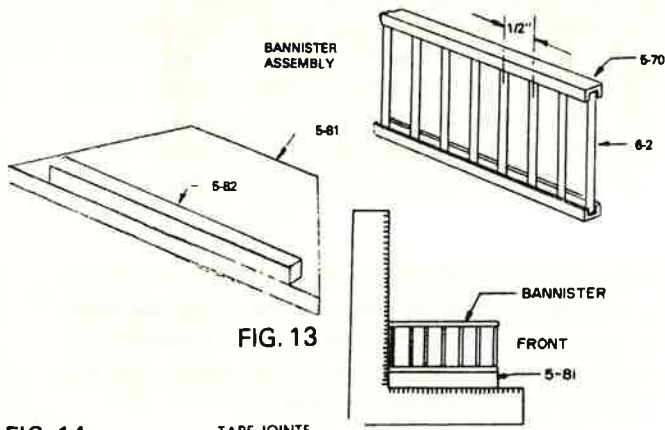
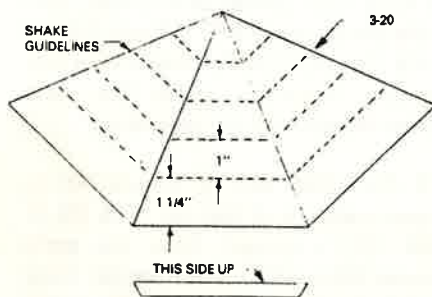


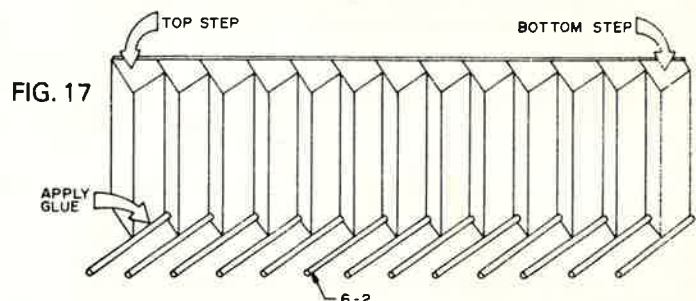
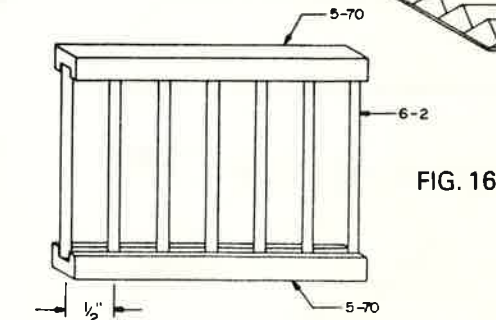
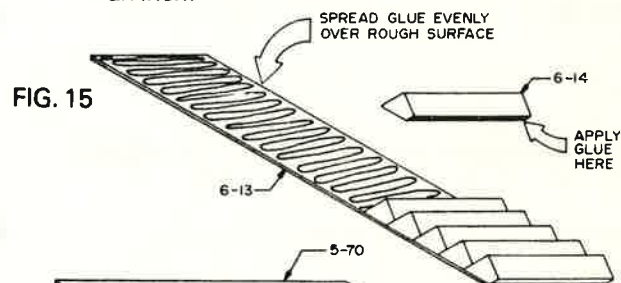
FIG. 14



SUBASSEMBLY NO. 7 STAIRWAYS AND RAILINGS

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ a dispenser of woodworking glue
 - ☐ a roll of waxed paper
 - ☐ a ruler
 - ☐ a pencil
2. ☐ Locate the parts. You will need the following parts:
 - ☒ 5-70, Bannister Stock
 - ☒ 6-2, Bannister Posts, 61 pieces
 - ☒ 6-13, Stairway Base, 2 pieces
 - ☒ 6-14, Steps, 26 pieces
3. ☐ Lay the stairway base (part no. 6-13) rough side up, and spread glue evenly over the entire surface.
4. ☐ Position the bottom step (part no. 6-14) so the angle-cut side seats in the glue at one end of the stairway base, as shown in Figure 15.

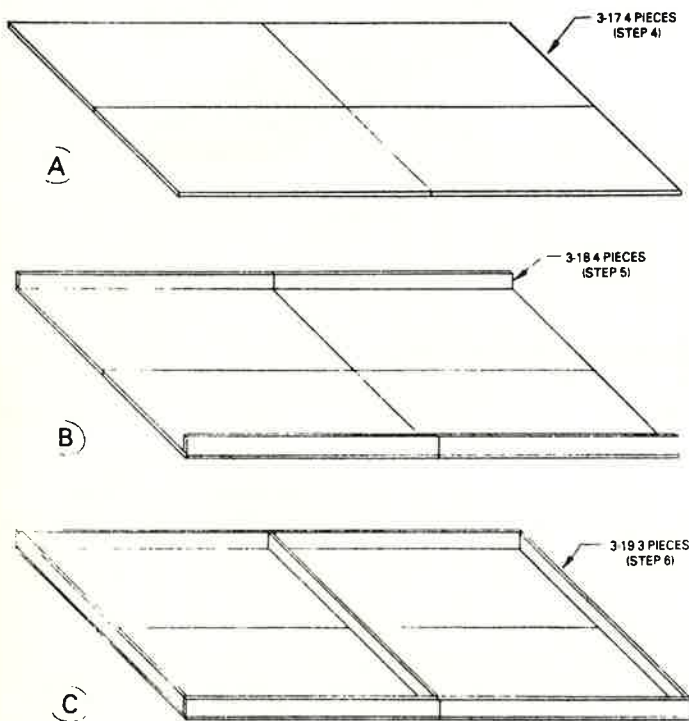
5. ☐ Apply glue to the bottom (the smallest side) of the next step, as shown in Figure 15, then lay it in place. It should be in full contact with the stairway base and the bottom step.
6. ☐ Install the remaining steps in succession, following the same procedure, spacing them evenly to fill the full length of the stairway base. Be sure all the edges are flush. Allow the glue to set.
7. ☐ Cut ten 3-1/2 inch pieces of bannister stock (part no. 5-70). Lay them out and make pencil marks every half inch, next to the grooves. These mark the locations for the bannister posts.
8. ☐ Apply glue to the ends of the bannister posts (part no. 6-2) and install them in the bannisters, as shown in Figure 16, to make five assemblies. Line up the posts with the pencil marks. Be sure the ends of the assemblies are square!
9. ☐ Stand the stairway assembly on edge on a sheet of waxed paper, as shown in Figure 17.
10. ☐ Apply glue to the lower half-inch of the bannister posts, and lay them in position against the steps. Refer to Figure 17.
11. ☐ Cut two 12 inch pieces of bannister stock (part no. 5-70). After the glue from Step 10 has dried, lift the assembly off the waxed paper. Apply a dab of glue to the end of each post, then install the bannister piece. Its lower end should be flush with the bottom post, and the upper end should overhang about an inch.



SUBASSEMBLY NO. 8 HOUSE BASE

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ a dispenser of woodworking glue
 - ☐ a roll of waxed paper
 - ☐ masking tape
2. ☐ Locate the parts. You will need the following parts:
 - ☐ 3-17, Base 12- $\frac{1}{2}$ " x 26", 4 pieces
 - ☐ 3-18 Foundation strip 1 $\frac{3}{4}$ " x 26" 4 pieces
 - ☐ 3-19, Foundation strip 1 $\frac{3}{4}$ " x 24 $\frac{1}{4}$ " 3 pieces
3. ☐ Prepare an area for gluing. You will need a hard, flat surface at least 25 by 52 inches in size. Select a location where the assembly will not have to be disturbed for twelve hours after gluing. Tape waxed paper over the entire surface.
4. ☐ Glue the four base pieces (part no. 3-17) together, as shown in Figure 18. Apply the glue heavily to the mating surfaces, then press them together firmly.
5. ☐ After the glue from Step 4 has set, glue the Foundation pieces (part no. 3-18) in place, as shown in Figure 18. Tape them in position, if necessary.
6. ☐ When the glue from Step 5 has set, glue the Foundation strip (part no. 3-19) in place as shown in Figure 18.

FIG. 18



SUBASSEMBLY NO. 9 TOWER CORNER POSTS

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
 - ☐ a dispenser of woodworking glue
 - ☐ 2 dozen small rubber bands
 - ☐ a ruler or tape measure
 - ☐ a pencil
2. ☐ Locate the parts. You will need the following parts:
 - ☒ 5-1, Rear Corner Post, 19- $\frac{1}{2}$ ", 1 piece
 - ☒ 5-76, Tower Corner Post, 32- $\frac{1}{2}$ ", 7 pieces
 - ☒ 5-88, Tower Corner Post, 4-7/8", 1 piece
 - ☒ 5-89, Tower Corner Post, 7-7/8", 1 piece
 - ☒ 5-90, Tower Corner Post, 13", 3 pieces
 - ☐ 5-91, Tower Corner Post, 19- $\frac{1}{2}$ ", 1 piece
 - ☒ 5-92, Tower Corner Post, 27-5/8", 1 piece
3. ☐ HOW TO USE THE ASSEMBLY PATTERNS: To aid you in assembling the tower corner posts, we have provided patterns to use with Figures 19 through 22. Stand the corner post parts on the pattern, so the drawing exactly outlines the post assembly.
4. ☐ Using six of the 32- $\frac{1}{2}$ inch corner post pieces (part no. 5-76), assemble corner posts D/E, E/F and F/G, as shown in Figure 19. Use ASSEMBLY PATTERN NO. 1 to confirm proper assembly. Hold the parts together with rubber bands until the glue dries.
5. ☐ Use ASSEMBLY PATTERN NO. 2 (Figure 20) to establish the proper positions of part no. 5-76 (32- $\frac{1}{2}$ inches) and 5-92 (27- $\frac{5}{8}$ inches). Glue the parts together, and secure them with rubber bands. Mark the end that fits the assembly pattern "Bottom" for future reference.
6. ☐ Glue the 4-7/8 inch corner post piece (part no. 5-88) in position at the top of corner post G/H-A, as shown in Figure 20. Use ASSEMBLY PATTERN NO. 1 to verify that the parts are properly fitted.
7. ☐ Use ASSEMBLY PATTERN NO. 3 (Figure 21) to establish the proper positions of part no. 5-1 (rear corner post) and 5-91 (19- $\frac{1}{2}$ inches). Glue the parts together, and secure them with rubber bands. Mark the end that fits the assembly pattern "Bottom" for future reference.
8. ☐ Glue two of the 13 inch pieces (part no. 5-90) together to form the top half of corner post B-C/D (Figure 21). Use ASSEMBLY PATTERN NO. 1 to verify that the parts are properly fitted.
9. ☐ Glue the part assembled in Step 8 to the top of the part assembled in Step 7, as shown in Figure 21. The groove in part no. 5-1 must be exactly aligned with the groove in part no. 5-90. Clean excess glue from the groove.

10. ☐ Use **ASSEMBLY PATTERN NO. 4** (Figure 22) to establish the proper positions of part no. 5-90 (13 inches) and 5-89 (7-7/8 inches). Glue the parts together and secure them with rubber bands. The end that fits the pattern is the top of the post.

FIG. 19

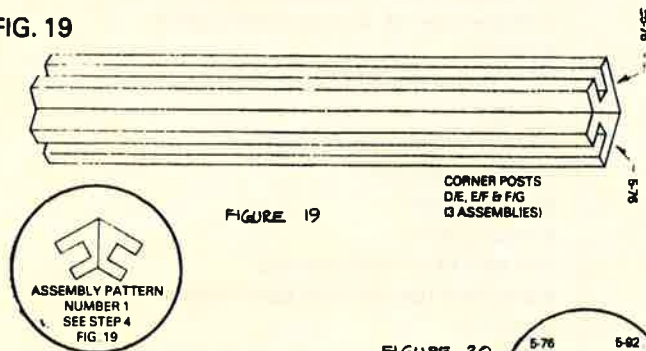


FIGURE 19

CORNER POSTS
D/E, E/F & F/G
(3 ASSEMBLIES)

FIG. 20

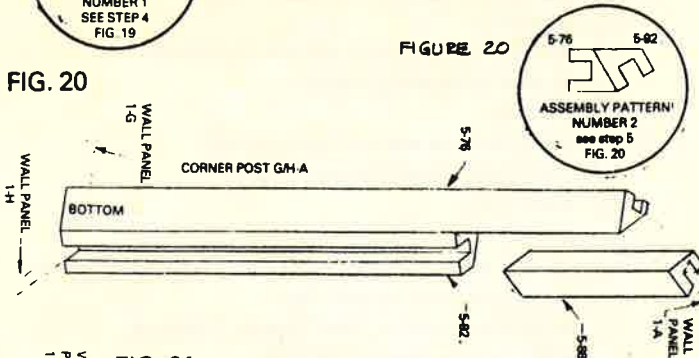


FIGURE 20

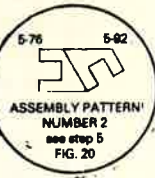


FIG. 21

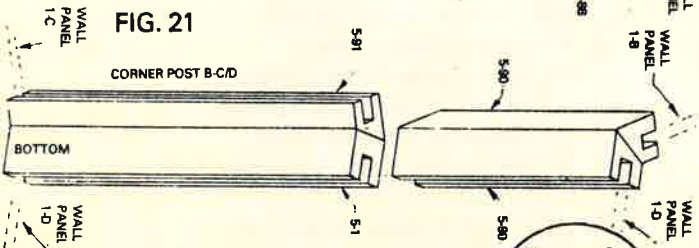
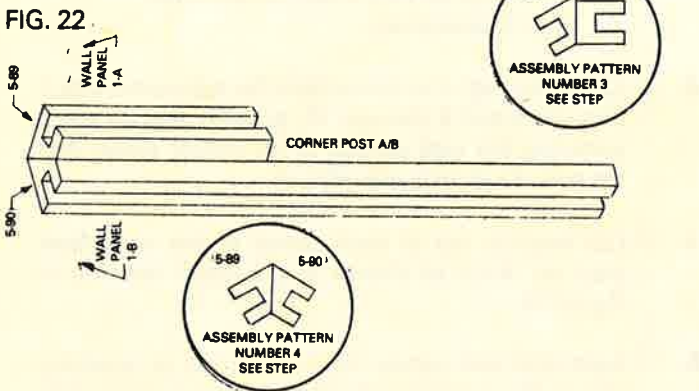


FIG. 22



SUBASSEMBLY NO. 10 PORCH RAILING AND PORCH ROOF SUPPORTS

1. ☐ Prepare your tools and materials. You will need the following items to complete this subassembly:
- ☐ a dispenser of woodworking glue
 - ☐ masking tape
 - ☐ waxed paper
 - ☐ a utility knife
 - ☐ a ruler or measuring tape
 - ☐ a coping saw

- ☐ framing square
- ☐ rubber bands

2. ☐ Locate the parts. You will be using the following parts and subassemblies:

- ☐ 5-37, Porch Roof Posts, 7 pieces
- ☐ 5-46, Floor Support Stock
- ☐ 5-83, Front Porch Roof Support, 1 piece
- ☐ 5-84, Side Porch Roof Support, 1 piece
- ☐ 6-4, Porch Railing Stock
- ☐ 6-6, Porch Railing Posts, 61 pieces
- ☐ 6-12, Decorative Gussets, 12 pieces
- ☐ Wall Panels 1-H, 1-J, 1-L and 1-M

3. ☐ Lay wall panels 1-H, 1-L and 1-M face-up on the table. Measure 12 inches up from the bottom of each panel and draw a horizontal line across the panel.

4. ☐ Lay wall panel 1-J face-up. Measure 10-3/4 inches up from the panel and draw a horizontal line across the panel at that point.

5. ☐ Cut the floor support stock (part no. 5-46) into three 10-1/2 inch pieces and one 13-1/2 inch piece. It is important that these pieces be no longer than specified.

6. ☐ Glue the floor supports onto the wall panels so that their **upper** edges are on the previously drawn lines. Center the pieces from side to side, so there is a quarter-inch space between the end of the floor support and the edge of the wall panel.

7. ☐ Cut the porch railing stock into pieces of the following lengths:

- ☐ 4 pieces 15-3/4 inches long
- ☐ 4 pieces 11-1/2 inches long
- ☐ 2 pieces 5-1/2 inches long
- ☐ 2 pieces 4-3/4 inches long

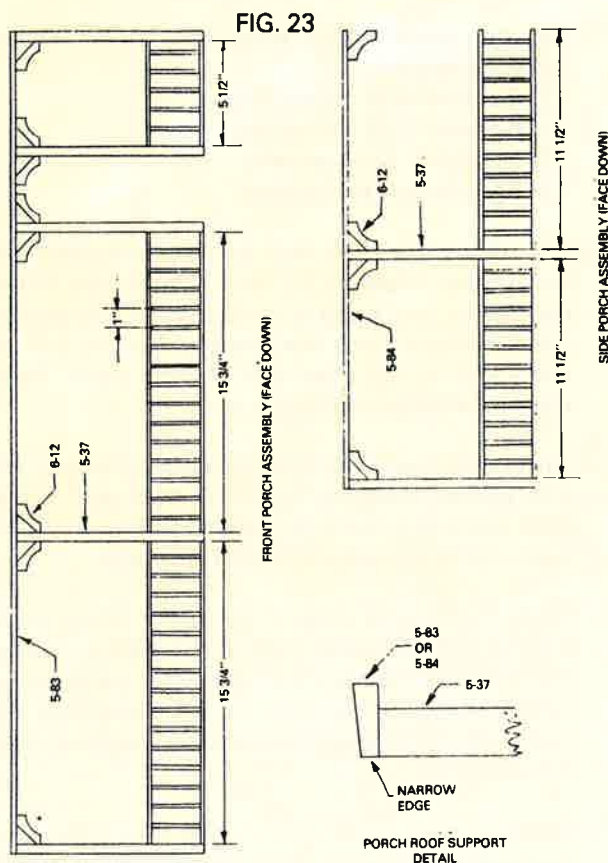
8. ☐ Lay out the four 15-3/4 inch pieces and the two 4-3/4 inch pieces. Measure 7/8 inch in from one end of each piece and make a mark next to the groove. Then measure from that mark and make a mark every inch to the other end of each piece. These mark the locations of the posts.

9. ☐ Lay out the four 11-1/2 inch pieces and the two 5-1/2 inch pieces. Measure 3/4 inch in from one end of each piece and make a mark, then make a mark every inch from that point to the other end.

10. ☐ Apply glue to the ends of the porch railing posts (part no. 6-6) and install them in the railings. Line up the centers of the posts with the pencil marks on the railings. Be sure the ends of the assemblies are square! Hold the assemblies with rubber bands until the glue dries.

11. ☐ Spread waxed paper over an area large enough to lay out the two porch assemblies shown in Figure 23.

12. ☐ Check the ends of the railing assemblies to ensure that the top and bottom rails are exactly square with one another. Square them up with sandpaper, if necessary.
13. ☐ Apply glue to the ends of the two 15- $\frac{3}{4}$ inch railings, then lay them on the waxed paper and position three porch roof posts (part no. 5-37) against them as shown in Figure 23.
14. ☐ Apply glue to the ends of the 5- $\frac{1}{2}$ inch section of railing, then lay it on the waxed paper and position a post (part no. 5-37) against each end as shown in Figure 23.
15. ☐ Using the same procedure as in Steps 13 and 14, glue the two 11- $\frac{1}{2}$ inch sections of railing to the two remaining posts, as shown in Figure 23. Allow the glue to dry before proceeding with Step 16.
16. ☐ Apply glue to the tops of the porch roof posts, then position the porch roof supports (part no's. 5-83 and 5-84) as shown in Figure 23. The narrow edge should be at the bottom, as shown in the detail drawing, with the assemblies face down on the waxed paper.
17. ☐ Glue the decorative gussets (part no. 6-12) in place as shown in Figure 23. Allow the glue to thoroughly dry before lifting the assemblies from the waxed paper. Handle these assemblies very carefully until they are installed on the house.



FINAL ASSEMBLY PART 1 WALLS, FLOORS AND BASE

1. ☐ Prepare your tools and materials. You will need the following items to complete this phase:
 - ☐ a dispenser of woodworking glue
 - ☐ a pencil
 - ☐ "T" pins or straight pins
 - ☐ string
 - ☐ several large rubber bands
 - ☐ a framing square
 - ☐ masking tape
 - ☐ a coping saw
 - ☐ one pint of contact cement
 - ☐ a one-inch natural fiber paint brush
 - ☐ scissors
 - ☐ a 3/32-inch diameter nail set (optional)
 - ☐ $\frac{1}{2}$ pint of sanding sealer
 - ☐ thinner
 - ☐ polyurethane varnish (satin finish)
 - ☐ 100 grade (medium) sandpaper
 - ☐ steel wool
2. ☐ Locate the parts. You will need the following parts and completed subassemblies:
 - ☐ 4-59, Second and Third Floors, 2 pieces
 - ☐ 4-60, Tower Floors, 2 pieces
 - ☐ 4-73, Wing Floor, 1 piece
 - ☐ 5-1, Rear Corner Posts, 2 pieces
 - ☐ 5-2, Front Corner Posts, 5 pieces
 - ☐ 5-3, Universal Molding Stock
 - ☐ 5-77, Floor Rear Trim, 2 pieces
 - ☐ 6-19, Hardwood Flooring Kit
 - ☐ Wall Panel Subassemblies (all)
 - ☐ Tower Corner Post Subassemblies (all)
 - ☐ Base Subassembly
3. ☐ Check through the instructions for subassemblies 1 through 6 and 8 through 10, to verify that all steps involving the wall panels, tower corner posts, and the base have been completed.
4. ☐ Cut notches out of each corner of the wing floor (part no. 4-73) as shown in the detail drawing in Figure 24.
5. ☐ Assemble wall panels 1-I, 1-J and 1-K by applying glue to the grooves in the corner posts (part no. 5-2). Be sure the grooves in the corner posts are all pointed the right direction, as shown in Figure 24. Carefully seat the wall panels **all the way** into the grooves.
6. ☐ Apply a bead of glue to the top surface of the floor supports. Lay the floor (part no. 4-73) in place, smooth side up, and press it gently into the glue.
7. ☐ Tie strings around the assembly as shown in Figure 25. Use rubber bands to keep the string tight. This will keep the walls pulled in against the floor piece. Stick pins into the wall panels at floor level to wedge the floor down against the floor supports.

8. ☐ Assemble tower wall panels 1-D, 1-E, 1-F and 1-G by applying glue to the grooves in the tower corner post subassemblies (B-C/D, D/E, E/F, F/G and G/H-A). Be **absolutely certain** that the 3-way corner posts (B-C/D and G/H-A) are positioned correctly, as shown in Figure 26, so they will engage wall panels 1-C and 1-H. Carefully seat the wall panels **all the way** into the grooves.

9. ☐ Apply a bead of glue to the top surface of the floor supports. Lay the tower floors (part no. 4-60) in place, smooth side up, and press them gently into the glue.

10. ☐ As in Step 7, use string, rubber bands, and pins to hold the tower assembly tightly together while the glue dries.

11. ☐ Assemble the tower partial wall panels (1-A and 1-B) by applying glue to the grooves in the tower corner post subassemblies (G/H-A, A/B and B-C/D). Carefully seat the wall panels **all the way** into the grooves. Be sure all the wall panels and corner posts are flush at the top and bottom.

12. ☐ Use a string and rubber band to hold panels 1-A and 1-B in place while the glue dries (refer to Step 7).

13. ☐ Cut notches in the two floor panels (part no. 4-59) as shown in Figure 28. The corner notches are a quarter-inch square; and the notches on the front edges a quarter-inch deep by a half-inch wide.

NOTE: The glue from all preceding steps in this sequence must be thoroughly dry before proceeding. Remove all strings, pins, etc.

14. ☐ Install the rear corner posts (part no. 5-1) on the rear edges of wall panels 1-C and 1-M, as shown in Figure 29.

15. ☐ Assemble wall panels 1-L and 1-M by applying glue to the grooves in the front corner post (part no. 5-2), as shown in Figure 29. Seat the wall panels all the way into the grooves, then tape the corner together on the outside of the house. Before the glue sets, proceed with Step 16.

16. ☐ Apply glue to the remaining corner post grooves, and assemble the walls in their proper positions as shown in Figure 30. Be sure all panels are fully seated in the corner post grooves.

17. ☐ Apply a bead of glue to the top surface of the floor supports. Lay the main floor panels (part no. 4-59) in place, smooth side up, and press them gently into the glue.

18. ☐ Use string, rubber bands, and pins to hold the house together tightly while the glue dries. Review the procedure given in Step 7. Check carefully to ensure that all joints are tight and corners square.

19. ☐ Glue the floor rear trim pieces (part no. 5-77) in place across the rear edges of the second and third floors.

20. ☐ When the glue is dry, position the house on the base subassembly, with the rear corner posts flush with the back edge of the base. The corner of the tower should be flush with one side of the base, as shown in Figure 31.

21. ☐ Mark the location of the house on the base with a pencil line around the inside and outside of the walls. Lift the house off the base.

NOTE: The hardwood flooring kit contains enough hardwood strips to cover one floor of the house. This material may alternatively be applied to doors, stairways, or used as wall paneling. If you do not plan to apply the hardwood to the floor, skip Steps 22 through 26.

22. ☐ Brush contact cement on the base inside the pencil line that marks the location of the walls, and on one side of the hardwood strips. Follow the instructions provided with the contact cement.

WARNING: Contact cement is **extremely volatile and flammable**. The working area must be well ventilated. Keep well away from flame or sparks!

23. ☐ Start laying hardwood strips at the front of the house and work toward the rear. Cut the strips with scissors. Offset the joints as shown in Figure 32.

24. ☐ After the hardwood strips are in place, burnish them down by rubbing them firmly with a small wood block.

25. ☐ To achieve a pegged appearance, if desired, punch the ends of each strip, as shown in Figure 32, using a 3/32-inch diameter nail set.

26. ☐ Sand the flooring smooth and remove any traces of contact cement that would interfere with the positioning of the house on the base.

27. ☐ Apply a bead of woodworking glue between the two lines drawn in Step 21. Carefully place the house into the bead of glue. Be careful to avoid getting any glue on the unfinished hardwood flooring! Lay weights on the upper floor to hold the house in position. Proceed immediately with Step 28.

28. ☐ Before the glue from Step 27 dries, cut pieces of universal molding (part no. 5-3) to fit around the base of the walls on the inside and the outside of the house. At the doorways, cut the molding a quarter-inch short to allow clearance for the door casings (Figure 33).

29. ☐ When the glue is dry, finish the hardwood flooring with two or three coats of satin sheen polyurethane varnish. Steel wool lightly between coats.

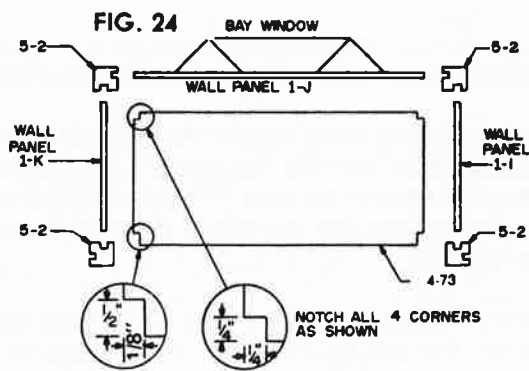


FIG. 29

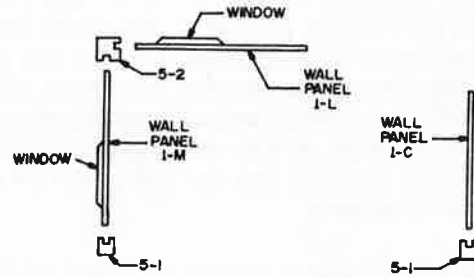


FIG. 25

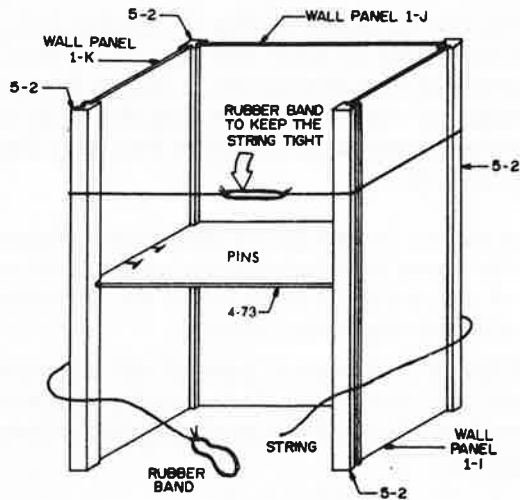


FIG. 30

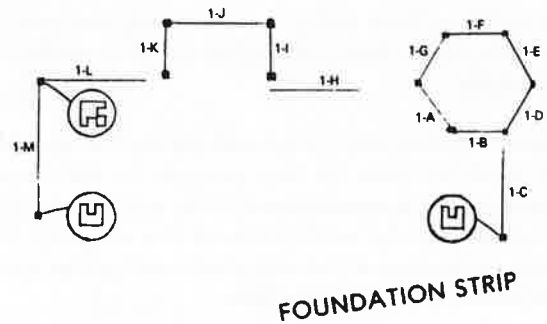


FIG. 26

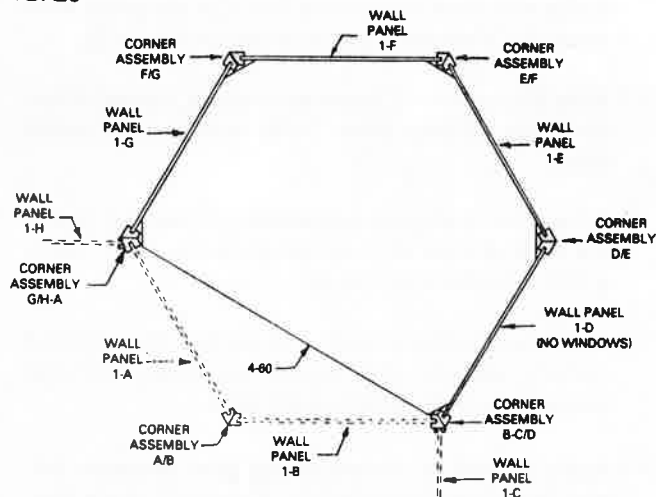


FIG. 32

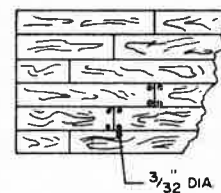


FIG. 27

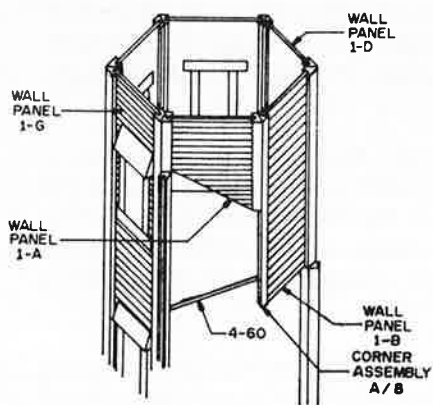


FIG. 28

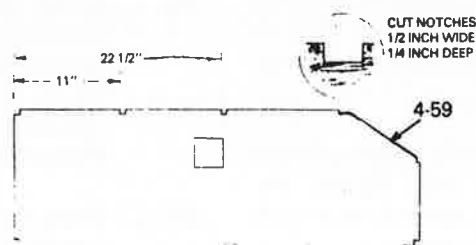
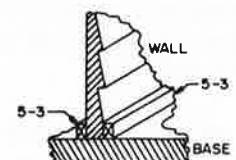


FIG. 33



FINAL ASSEMBLY PART 2 PORCH AND PORCH ROOF

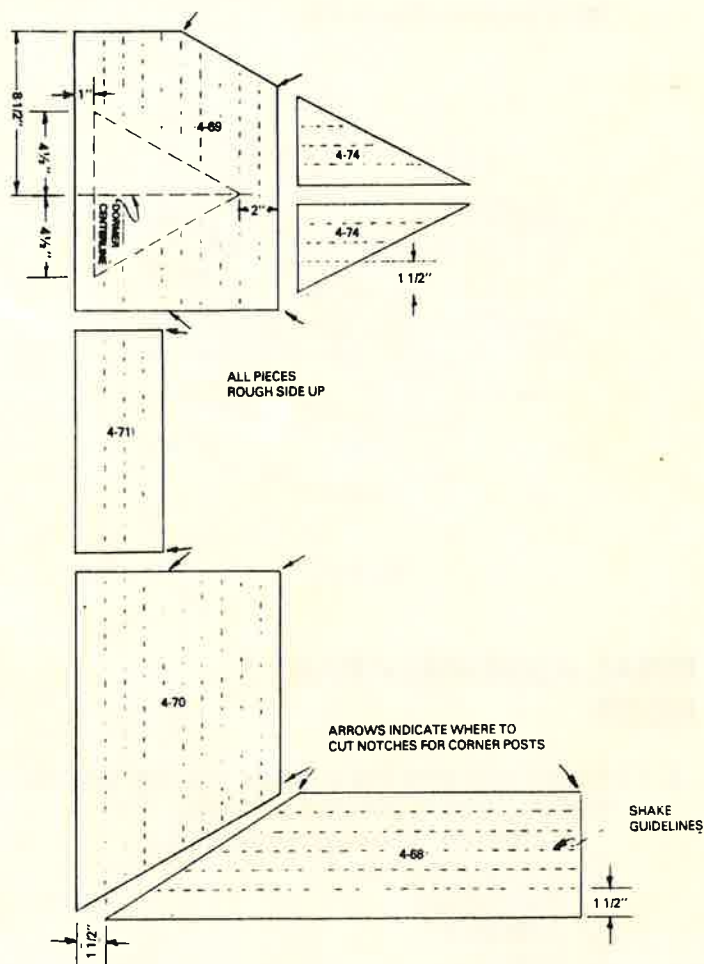
1. ☐ Prepare your tools and materials. You will need the following items to complete this phase:
 - ☐ a dispenser of woodworking glue
 - ☐ a small square
 - ☐ masking tape
 - ☐ a pencil
 - ☐ a yardstick
 - ☐ a sharp utility knife
2. ☐ Locate the parts. You will need the following parts and completed subassemblies:

<input type="checkbox"/> 4-68, Porch Roof, Side,	1 piece
<input type="checkbox"/> 4-69, Porch Roof, Front Left,	1 piece
<input type="checkbox"/> 4-70, Porch Roof, Front Right,	1 piece
<input type="checkbox"/> 4-71, Porch Roof, Front Center,	1 piece
<input type="checkbox"/> 4-74, Porch Dormer Roof,	2 pieces
<input type="checkbox"/> 5-17, Shakes, (Plain)	
<input type="checkbox"/> 5-93, Porch Dormer Front,	1 piece
<input type="checkbox"/> 6-4, Porch Railing Stock	
<input type="checkbox"/> 6-6, Porch Railing Posts,	4 pieces
<input type="checkbox"/> 6-7, Porch Step, Lower	
<input type="checkbox"/> 6-8, Porch Step, Upper	
<input type="checkbox"/> Porch Railing Subassembly, Front	
<input type="checkbox"/> Porch Railing Subassembly, Side	
<input type="checkbox"/> Porch Railing Subassembly, Left End	
3. ☐ Review the instructions for subassembly no. 10 and verify that all steps have been completed.
4. ☐ Lay the porch roof front left panel (part no. 4-69) on the table, rough side up. Measure 8-½ inches from the left edge, and draw the dormer centerline as shown in Figure 34, perpendicular to the front edge.
5. ☐ Measure one inch in from the front edge of the panel and draw a line to mark the front of the porch dormer.
6. ☐ Measure along the dormer centerline 2 inches from the rear edge of the panel and make a mark. Measure along the dormer front line 4-½ inches each way from the centerline and make marks. Draw lines between the marks to complete the dormer outline, as shown in Figure 34.
7. ☐ Lay out all the porch roof panels (part no's. 4-68, 4-69, 4-70, 4-71 & 4-74) as shown in Figure 34, rough side up. Carefully measure and draw guidelines for applying the shakes. The first line goes 1-½ inches from the edge, and the rest are 1 inch apart.
8. ☐ Apply glue to the bottom surface of the porch railing front subassembly, then position it on the base, flush with the front of the base and all the way to the right side. The opening should be lined up with the doorway.
9. ☐ Apply glue to the bottom surface of the porch railing

side subassembly and to the ends where it joins with the front railing. Position the subassembly on the base, flush with the right-hand edge. Tape the two railing subassemblies together at the right front corner.

10. ☐ Apply glue to the bottom and ends of the left end railing subassembly, and fit it in place between the tower corner and the front railing. Tape it securely in place.
11. ☐ Use the square to make sure that all three railing subassemblies are standing vertically. Allow the glue to dry before proceeding with Step 12.
12. ☐ Trial-fit the porch roof panels in place on the porch railings and roof supports. You will have to cut notches to fit the panels around the corner posts, as indicated in Figure 34.

FIG. 34



13. ☐ When proper fit is assured, apply glue to the porch roof supports, and install the porch roof panels.
14. ☐ Glue the porch dormer front (part no. 5-93) in place so that its front edge is on the line drawn in Step 5.
15. ☐ Glue the porch dormer roof panels (part no. 4-74) in place, aligning the edges with the lines drawn in Step 6.

16. ☐ After the glue dries, apply shakes (part no. 5-17) over the entire porch roof. Start at the outer edge of the structure and work upward, toward the house walls. Align the top edge of each course of shakes with the guidelines drawn in Step 7. At the front right corner of the porch and along the sides of the dormer, cut the shakes at an angle to match the joints.
17. ☐ Slip a sheet of waxed paper under the base, directly in front of the doorway. Glue the porch steps (part no's. 6-7 & 6-8) against the front edge of the base, centered in front of the doorway. As shown in Figure 35.
18. ☐ Cut two 3- $\frac{1}{4}$ inch lengths of porch railing stock (part no. 6-4) with the ends angled at 60°, as shown in Figure 35.
19. ☐ Glue the four posts (part no. 6-6) in place on the corners of the porch steps, then glue the railings on top of the posts (Figure 35).

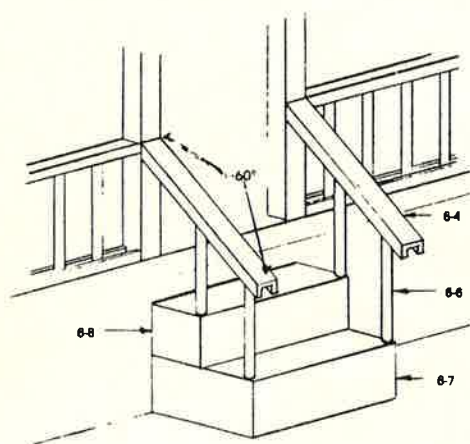


FIG. 35

FINAL ASSEMBLY PART 3 ROOF

1. ☐ Prepare your tools and materials. You will need the following items to complete this phase:
 - ☐ a dispenser of woodworking glue
 - ☐ a sharp utility knife
 - ☐ a coping saw
 - ☐ a yardstick
 - ☐ a pencil
 - ☐ a framing square
 - ☐ waxed paper
2. ☐ Locate the parts. You will need the following parts:

<input type="checkbox"/> 3-21, Tower Roof Panel,	6 pieces
<input type="checkbox"/> Main Roof, Rear,	1 piece
<input type="checkbox"/> 4-62, Main Roof, Front,	1 piece
<input type="checkbox"/> 4-63, Wing Roof, Left,	1 piece
<input type="checkbox"/> 4-64, Main Roof, Right,	1 piece
<input type="checkbox"/> 4-65, Main Roof, Left Rear,	1 piece
<input type="checkbox"/> 4-66, Main Roof, Left Front,	1 piece

- | | |
|--|---------|
| <input type="checkbox"/> 4-67, Wing Roof, Right, | 1 piece |
| <input type="checkbox"/> 4-75, Filler Piece, | 1 piece |
| <input type="checkbox"/> 4-76, Filler Piece, | 1 piece |
| <input type="checkbox"/> 5-17, Shakes (Plain) | |
| <input type="checkbox"/> 5-18, Shakes (Fancy) | |
| <input type="checkbox"/> 5-19, Universal Shake Trim Stock | |
| <input type="checkbox"/> 5-79, Ridge Cap, 16 inch, | 1 piece |
| <input type="checkbox"/> 5-80, Ridge Cap, 5- $\frac{1}{4}$ inch, | 1 piece |
| <input type="checkbox"/> 5-85, Ridge Cap, 20- $\frac{1}{4}$ inch, | 1 piece |
| <input type="checkbox"/> 5-86, Fillet Molding, 13- $\frac{3}{8}$ inch, | 1 piece |
| <input type="checkbox"/> 5-87, Fillet Molding, 9- $\frac{1}{4}$ inch, | 2 piece |
| <input type="checkbox"/> 5-94, Finial, | 1 piece |

3. ☐ Spread waxed paper over the work area, so you can lay out the main roof left and right assemblies as shown in Figure 36, rough side up.
4. ☐ Lay the main roof right panel (part no. 4-64) rough side up on the waxed paper. Measure 13- $\frac{1}{2}$ inches from the end, as shown in Figure 36, and make a pencil mark.
5. ☐ Apply glue to one edge of the wing roof right panel (part no. 4-67), then position it, rough side up, against part no. 4-64 and in line with the pencil mark made in Step 4.
6. ☐ Glue the small triangular filler piece (part no. 4-75) in place as shown in Figure 36.
7. ☐ Glue the three parts of the main roof left panel (part no's. 4-65, 4-66 & 4-76) together as shown in Figure 36. Allow the glue to dry before proceeding with Step 8.
8. ☐ Carefully measure and draw guide lines on all the roof panels, for applying the shakes. The first line goes 1- $\frac{1}{2}$ inch in from the edge, and the rest are 1 inch apart (Figure 36).
9. ☐ Glue the 20- $\frac{1}{4}$ inch ridge cap (part no. 5-85) across the top edge of the main roof rear panel (part no. 4-61).
10. ☐ When the glue from Step 9 is dry, prop the roof rear panel in a vertical position with the ridge cap lying on the table, as shown in Figure 37. Glue the main roof front panel (part no. 4-62) in place, rough side down. Make certain that the front and rear roof panels join at 90° to one another.
11. ☐ Glue a 13- $\frac{3}{8}$ inch piece of fillet molding (part no. 5-86) across the third floor panel, directly in line with the tip of wall panel 1-H, as shown in Figure 38-A. Be sure it is sloped the same way as the gable, and perpendicular to it. it.]
12. ☐ Glue a 9- $\frac{1}{4}$ inch piece of fillet molding (part no. 5-87) at the edge of the third floor in each of the two locations indicated in Figure 38-A. Again, be sure they slope the same direction as the roof.
13. ☐ When the glue from Steps 11 and 12 has dried, trial

fit each of the roof panels. Trim the tops of the corner posts on the house structure as required, to match the pitch of the roof and ensure that the roof panels will fit tightly against the gables and fillet moldings. Cut notches in the roof panels so they fit around the tower corner posts and the rear floor support.

FIG. 36

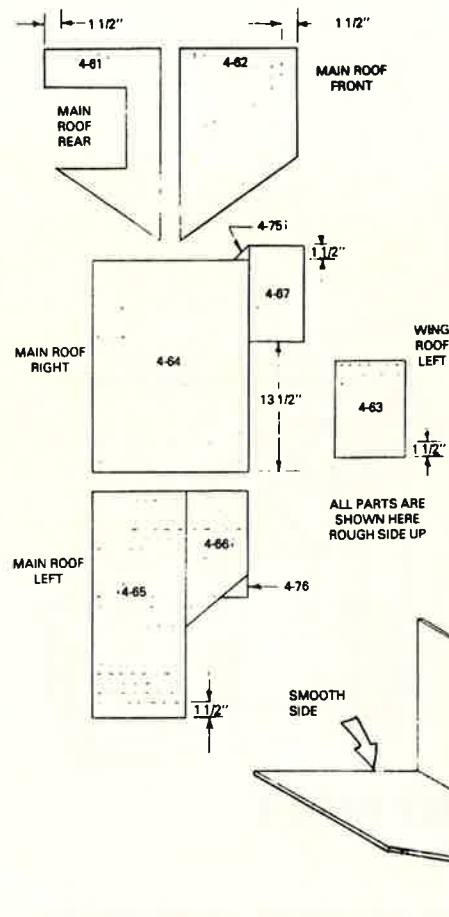


FIG. 37

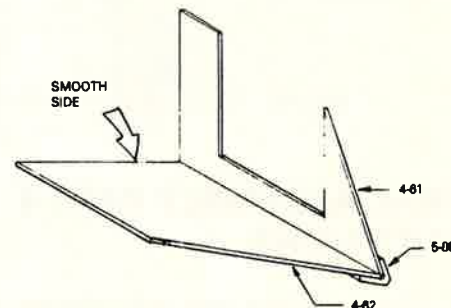
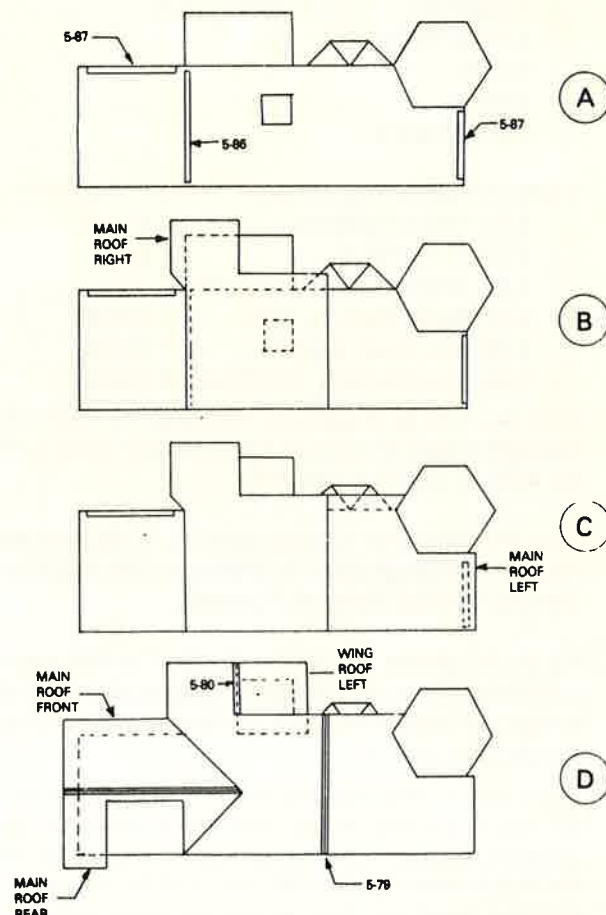


FIG. 38



14. ☐ Apply glue to the gable end supports and fillet molding, and install the main roof left panel as shown in Figure 38-C. Apply several spots of glue where the roof contacts the tower walls. Catch any drips that run through, into the house.
16. ☐ Apply glue to the gable end supports and fillet molding, and install the right main roof assembly as shown in Figure 38-D.
17. ☐ Install the wing roof left panel, as shown in Figure 38-D, then install the 5-3/4 inch piece of ridge cap (part no. 5-80) on the wing roof.
18. ☐ Install the main roof ridge cap (part no. 5-79) at the top of the main roof.
19. ☐ After the glue dries, apply shakes (part no. 5-17) over the entire roof. Start at the bottom edge of each panel and work toward the top, staggering the shakes in each row. Align the top edges of each course of shakes with the guide lines drawn earlier.
20. ☐ Lay out the six tower roof panels (part no. 3-21) and draw shake guide lines, as shown in Figure 39. The first line should be 1-1/4 inches from the bottom, and the rest are 1 inch apart. All are parallel to the bottom edge.
21. ☐ Arrange the tower roof panels side by side, as shown in Figure 39. Securely tape the joints between the panels.
22. ☐ Turn the taped tower roof assembly face down, and apply glue to the troughs formed where the beveled edges come together. Lift the side pieces, to close the troughs and bring the roof assembly into its final shape. Tape the final joint and allow adequate time for the glue to dry.
23. ☐ When the glue from Step 22 is dry, lay the tower roof assembly on its side and apply fancy shakes (part no. 5-18). Cut them as required to conform with the angles of the panels. Allow the glue to dry, then turn the roof and apply shakes to the next panel. Proceed in this manner until all six panels are done.
24. ☐ Glue the finial (part no. 5-94) in place atop the tower roof, as shown in Figure 40.
25. ☐ Apply glue to the tops of the tower corner posts, then position the tower roof assembly on the tower.
26. ☐ Cut and install the universal shake trim (part no. 5-19) on the edges of the roof and porch roof. Refer to Figure 41.

FIG. 39

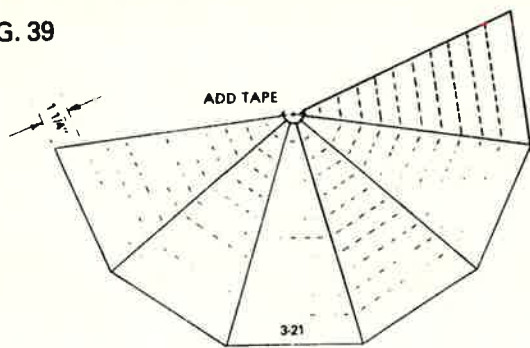


FIG. 40

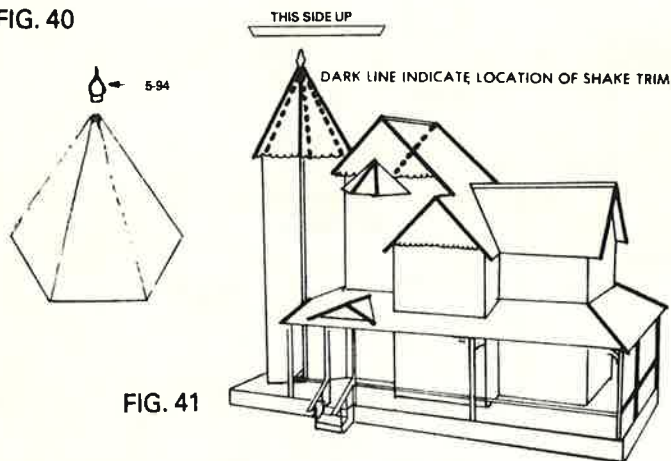


FIG. 41

FINAL ASSEMBLY PART 4 PARTITIONS

1. ☐ Prepare your tools and materials. You will need the following items to complete this phase:
 - ☐ a dispenser of woodworking glue
 - ☐ a sharp utility knife
 - ☐ a ruler
 - ☐ a pencil
 - ☐ a small square
2. ☐ Locate the parts. You will need the following parts:
 - ☐ 4-35, Room Partitions, 6 pieces
 - ☐ 4-72, Attic Floor 1 piece
 - ☐ 5-3, Universal molding stock
 - ☐ 5-41, Room Partition Trim, 12 pieces
 - ☐ 5-78, Attic Floor Support, 1 piece
 - ☐ 5-86, Fillet Molding, 13-3/8 inch, 2 pieces
3. ☐ Glue two pieces of partition trim (part no. 5-41) on opposite edges of each of the room partitions (part no. 4-35) as shown in Figure 42.
4. ☐ Glue the attic floor support (part no. 5-78) and the two fillet moldings (part no. 5-86) onto the attic floor (part no. 4-72) as shown in Figure 43.
5. ☐ Figure 44 shows the proper location of the room partitions. Measure and mark the locations, top and bottom to ensure that the partitions are installed straight and vertical.
6. ☐ Apply glue to the tops and bottoms of the partitions for the two lower floors, and install them in the positions marked. Use the square to verify that the walls are exactly vertical. Cut and fit universal molding (part no. 5-3) to use as base molding on each partition.

7. ☐ Apply glue to the fillet moldings on the attic floor assembly, and to the tops and bottoms of the third floor partition. Hold the attic floor in position against the roof panels, then install the partition under it. (Figure 45).

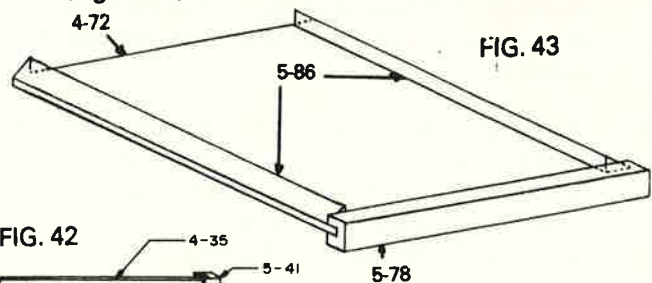


FIG. 42

FIG. 43

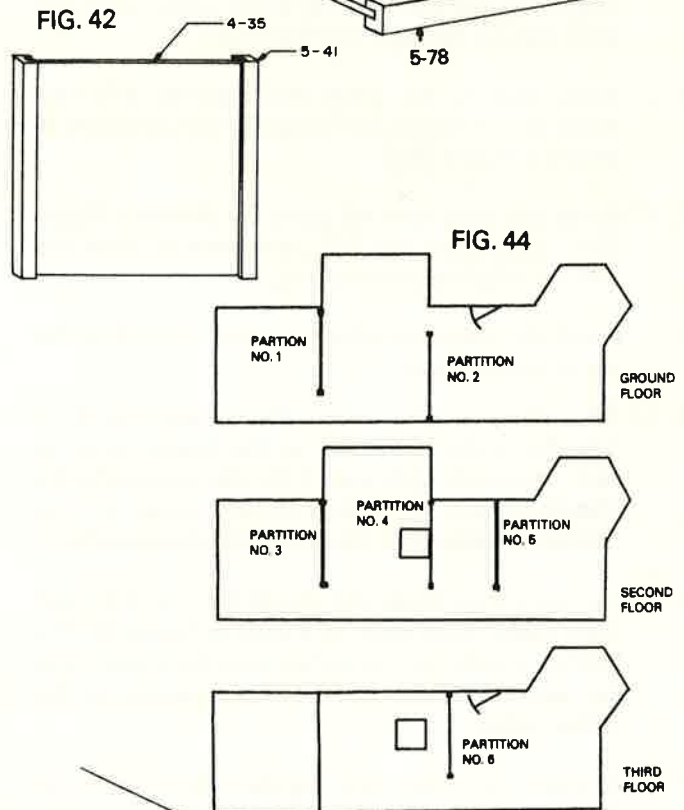
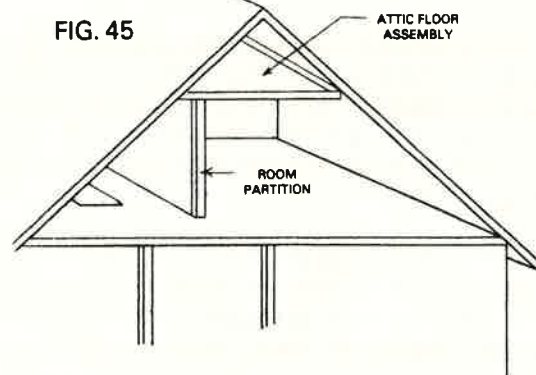


FIG. 45



FINAL ASSEMBLY PART 5 DOORS AND STAIRWAYS

1. ☐ Prepare your tools and materials. You will need the following items to complete this phase.
 - ☐ a dispenser of woodworking glue
 - ☐ masking tape
 - ☐ 100 grade (medium) sandpaper
 - ☐ a sharp utility knife

2. ☐ Locate the parts. You will need the following parts and completed subassemblies:

<input type="checkbox"/> 2-5, Door Top Casing,	4 pieces
<input type="checkbox"/> 2-7, Decorative Emblems,	12 pieces
<input type="checkbox"/> 2-23, Door Side Casing,	4 pieces
<input type="checkbox"/> 2-26, Door,	2 pieces
<input type="checkbox"/> 5-3, Universal Molding Stock	
<input type="checkbox"/> Hinge Pins (Brads),	4 pieces
<input type="checkbox"/> Door Knobs (Map Pins),	2 pieces
<input type="checkbox"/> Stairway Subassemblies,	2 pieces
<input type="checkbox"/> 3-1/4 inch Railing Subassemblies,	5 pieces
3. ☐ Review the instructions for subassembly no. 7 and verify that all steps have been completed.
4. ☐ Pre-fit the stairway subassemblies into the house. If the partition trim prevents the stairway from fitting tightly against the partition, cut a notch out of the side of the stairway to provide the necessary clearance. Sand off any glue or other protrusions that interfere with the fit of the stairways.
5. ☐ Apply glue to the edge of the stairway assembly that attaches to the partition, and across the top and bottom of the assembly where it contacts the stairwell and floor.
6. ☐ Place the stairway assembly in position, taking care to keep glue from getting on the hardwood floor except where the stairway attaches.
7. ☐ Install the second stairway assembly using the same procedure described above. Allow the glue to set before proceeding with Step 8.
8. ☐ Once the stairway glue has set, install the second and third floor stair railing subassemblies as shown in Figure 46.
9. ☐ Lay out the decorative emblems (part no. 2-7) on the doors (part no. 2-26) in a pattern that creates an effect you like. (The standard pattern is shown in Figure 48). Glue them in place.
10. ☐ Glue the door side casings (part no. 2-23) in the upper and lower door openings. Be sure they are pushed all the way into position. Refer to Figure 47.
11. ☐ Apply glue to the door top casings (part no. 2-5) and install one across the top of each doorway, inside and outside, as shown in Figure 47.
12. ☐ Cut four pieces of universal molding (part no. 5-3) to fit in the tops and bottoms of the two doorways.
13. ☐ If the glue is dry from Step 9, use sandpaper to round off the hinged edge of the door, as shown in the detail circle on Figure 48.
14. ☐ Drive a hinge pin through each of the four pieces of universal molding, 5/16-inch from one end.
15. ☐ Hold the piece of universal molding with the hinge

pin through it so that the hinge pin goes into the door 1/4-inch from the rounded edge, as shown in Figure 48. Install the four pieces on the tops and bottoms of both doors in this manner.

16. ☐ Install the door knob pins as shown in Figure 48.
17. ☐ At the top and bottom of each door, insert several paper shims between the door and the universal molding. This will ensure that the door will have proper clearance for opening and closing.
18. ☐ If the glue from Step 11 is dry, apply glue to the universal molding pieces, then insert the door assembly into the door opening. Be sure the door has adequate clearance at the sides.
19. ☐ After the glue has dried, remove the paper shims.

FIG. 46

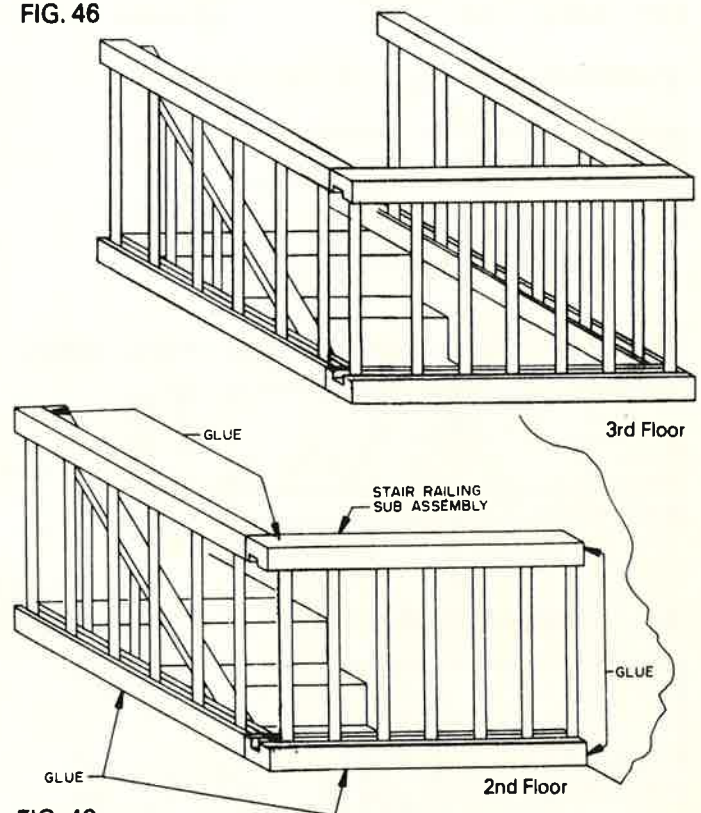


FIG. 48

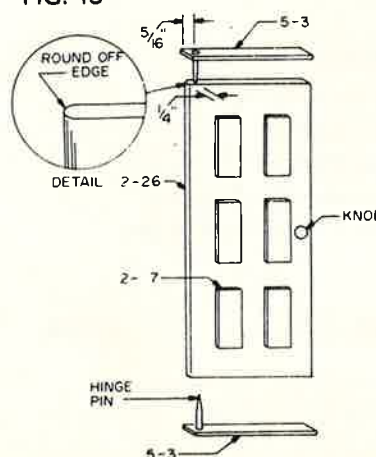
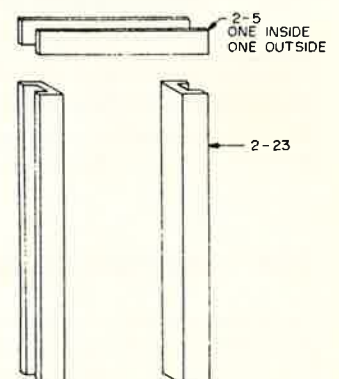


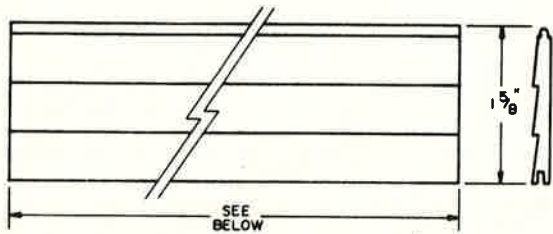
FIG. 47



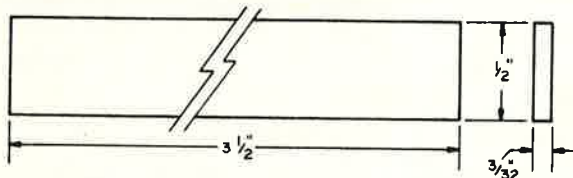
CONGRATULATIONS! Your miniature house is fully assembled.

VM-800 PARTS LIST

1-2	Siding, 14" long	6 piece
1-4	Siding 3" long	12 pieces
1-6	Siding 5 1/2" long	30 pieces
1-11	Siding 2" long	12 pieces
1-14	Siding 8 1/2" long	6 pieces
1-15	Siding 9 1/4" long	12 pieces
1-17	Siding 1" long	20 pieces
1-19	Siding 4" long	12 pieces
1-20	Siding 16 1/8" long, 45° cut-right	1 piece
1-21	Siding 10 11/16" long, 45° cut-right	1 piece
1-22	Siding 12 3/8" long, 45° cut-right	1 piece
1-23	Siding 13 15/16" long, 45° cut-right	1 piece
1-24	Siding 15 5/8" long, 45° cut-right	1 piece
1-25	Siding 5 1/4" long, 30° cut-left	1 piece
1-26	Siding 2 1/2" long, 30° cut-left	1 piece
1-27	Siding 5 1/4" long	64 pieces
1-29	Siding 13/8" long	54 pieces

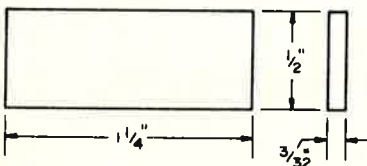


2-5 TOP & BOTTOM WINDOW & DOOR CASING 43 PCS.



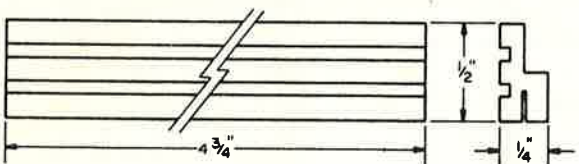
2-7 DECORATIVE EMBLEM

12 PCS.



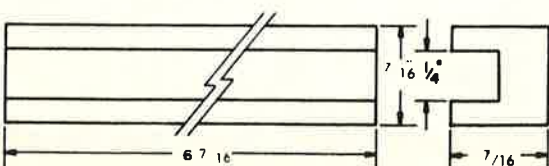
2-22 WINDOW SIDE CASING

26 PCS.



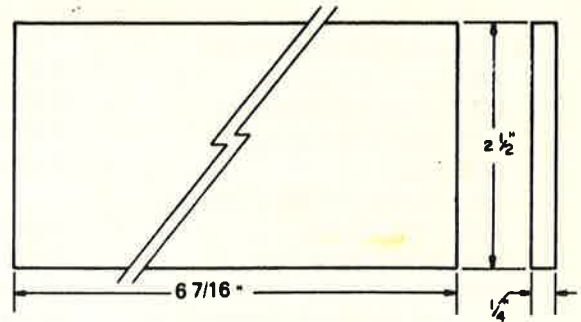
2-23 DOOR SIDE CASING

4 PCS.



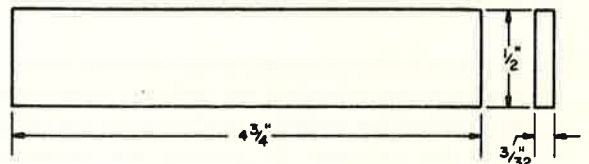
2-26 DOOR

2 PCS.



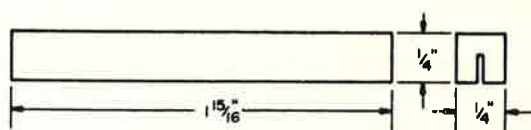
2-29 INSIDE WINDOW TRIM

30 PCS.



2-30 TOP & BOTTOM WINDOW FRAME

26 PCS.



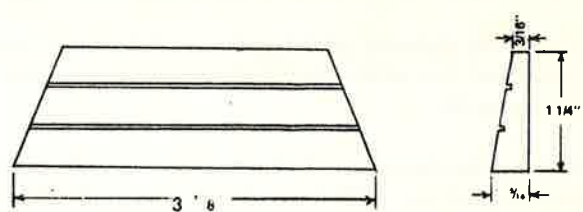
2-32 BAY WINDOW TOP & BOTTOM INSIDE TRIM

4 PCS.



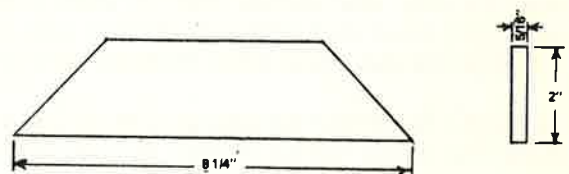
2-33 WINDOW CAPS

13 PCS.



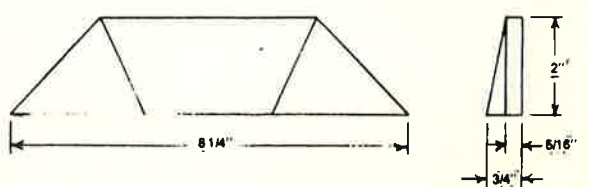
2-34 BAY WINDOW BOTTOM

2 PCS.



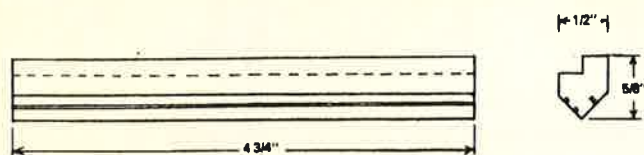
2-35 BAY WINDOW TOP

2 PCS.



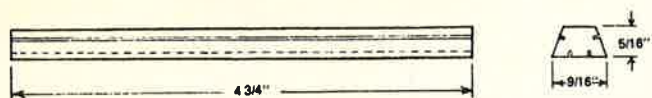
2-36 BAY WINDOW SIDE CASING

4 PCS.



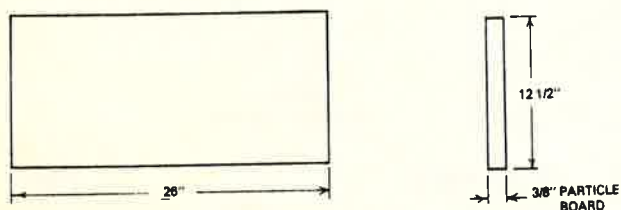
2-37 BAY WINDOW FRONT CASING

4 PCS.



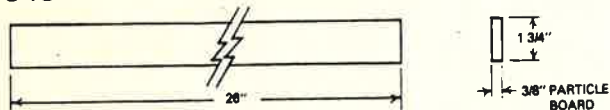
3-17 BASE PANEL

4 PCS.



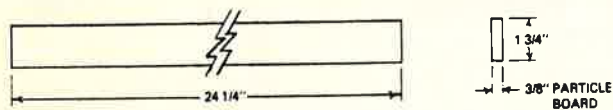
3-18 FOUNDATION STRIP

4 PCS.



3-19 BASE CROSSMEMBER

3 PCS.



3-20 BALCONY ROOF PANEL

3 PCS.



3-21 TOWER ROOF PANEL

6 PCS.



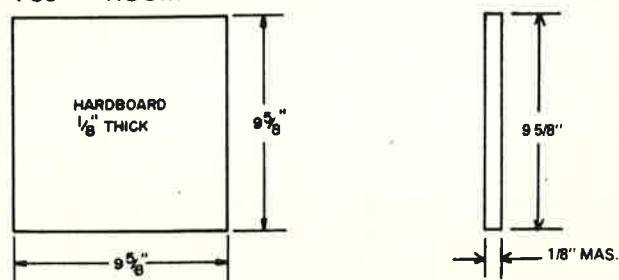
4-13 FRONT WING GABLE

1 PC.



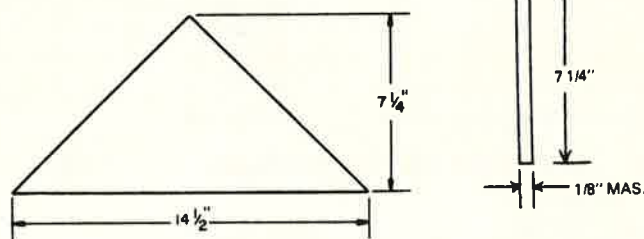
4-35 ROOM PARTITION

6 PCS.



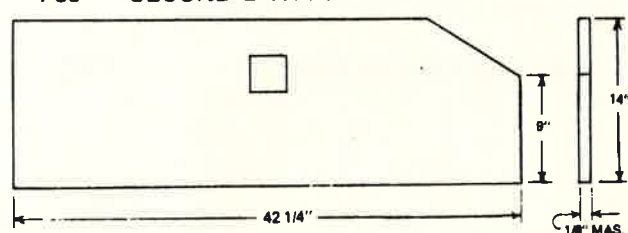
4-36 MAIN GABLE

2 PCS.



4-59 SECOND & THIRD FLOORS

2 PCS.



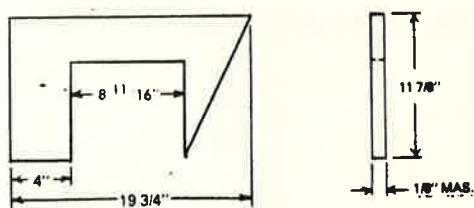
4-60 TOWER FLOOR

2 PCS.



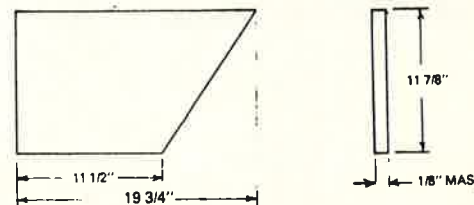
4-61 MAIN ROOF, REAR PANEL

1 PC.



4-62 MAIN ROOF, FRONT PANEL

1 PC.



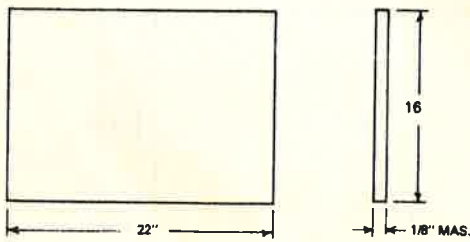
4-63 WING ROOF, LEFT PANEL

1 PC.



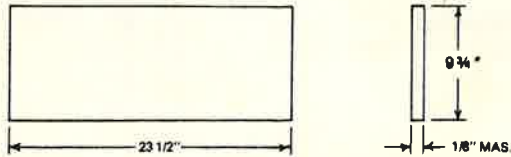
4-64. MAIN ROOF, RIGHT PANEL

1 PC.



4-65 MAIN ROOF, LEFT REAR PANEL

1 PC.



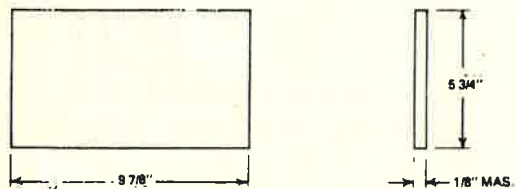
4-66 MAIN ROOF, LEFT FRONT PANEL

1 PC.



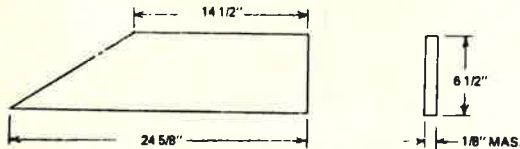
4-67 WING ROOF, RIGHT PANEL

1 PC.



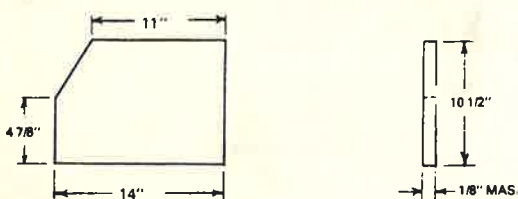
4-68 PORCH ROOF, SIDE PANEL

1 PC.



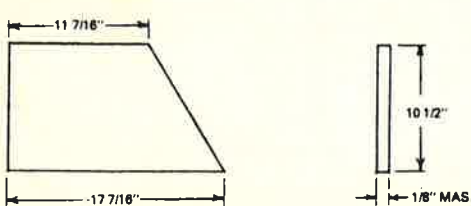
4-69 PORCH ROOF, FRONT LEFT PANEL

1 PC.



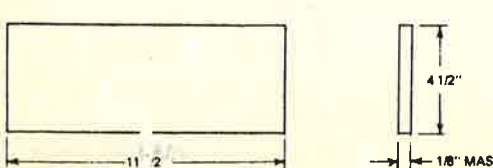
4-70 PORCH ROOF, FRONT RIGHT PANEL

1 PC.



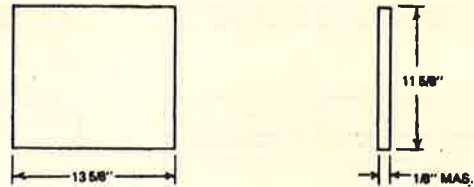
4-71 PORCH ROOF, FRONT CENTER PANEL

1 PC.



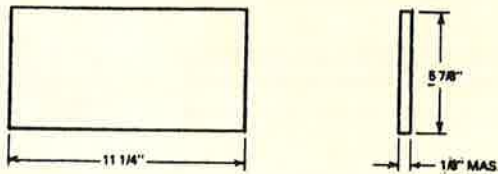
4-72 ATTIC FLOOR

1 PC.



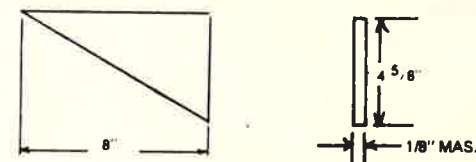
4-73 FRONT WING FLOOR

1 PC.



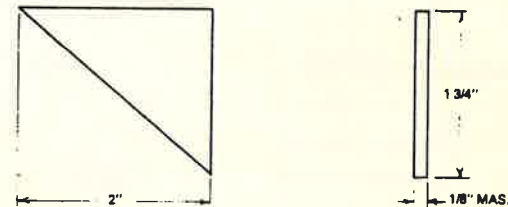
4-74 PORCH DORMER ROOF

2 PCS.



4-75 FILLER PIECE

1 PC.



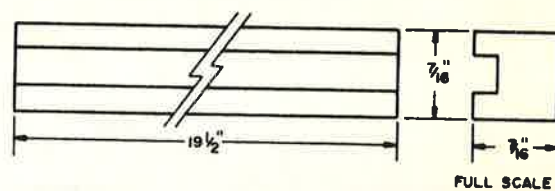
4-76 FILLER PIECE

1 PC.



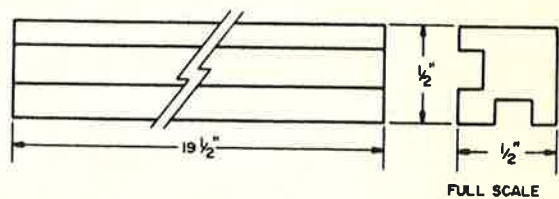
5-1 REAR CORNER POST

3 PCS.



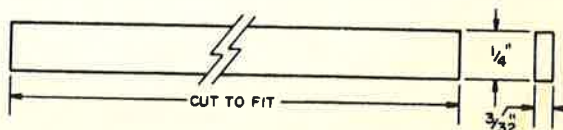
5-2 FRONT CORNER POST

5 PCS.



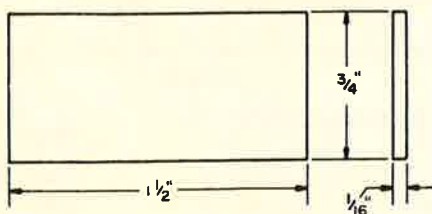
5-3 UNIVERSAL MOLDING STOCK

44 FT.



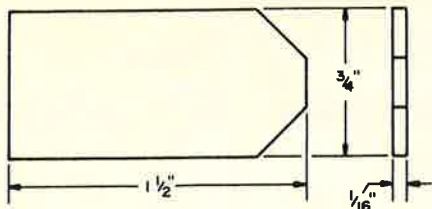
5-17 SHAKES (PLAIN)

1 PKG.



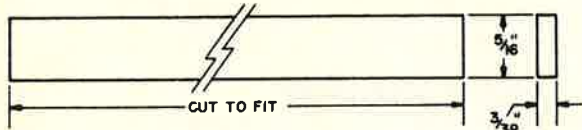
5-18 SHAKES (FANCY)

1 PKG.



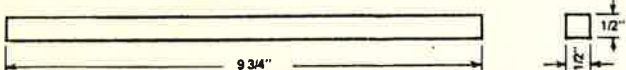
5-19 UNIVERSAL SHAKE TRIM STOCK

19 FT.



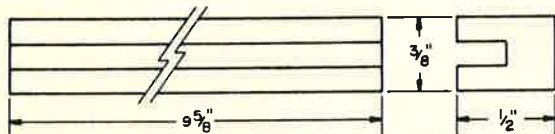
5-37 PORCH ROOF POST

7 PCS.



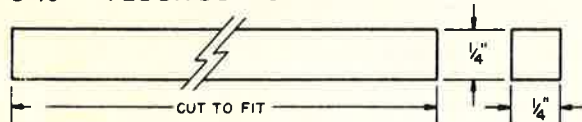
5-41 PARTITION TRIM

12 PCS.



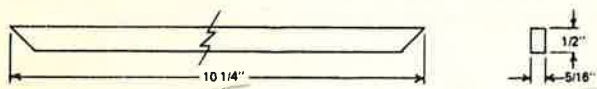
5-46 FLOOR SUPPORT STOCK

24 FT.



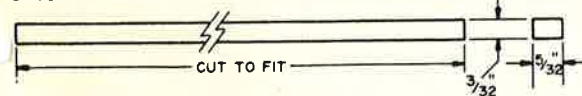
5-47 GABLE END SUPPORT

3 PCS.



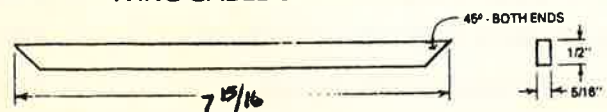
5-49 WINDOW DIVIDER STOCK

15 FT.



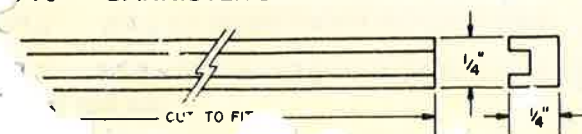
5-50 WING GABLE SUPPORT

2 PCS.



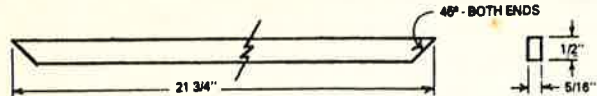
5-70 BANNISTER STOCK

9 FT.



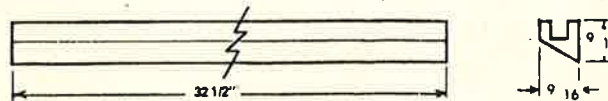
5-75 FRONT GABLE SUPPORT

1 PC.



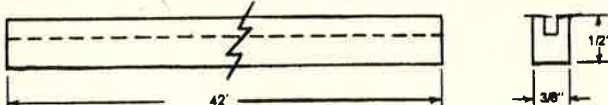
5-76 TOWER CORNER POST, 32 1/2"

7 PCS.



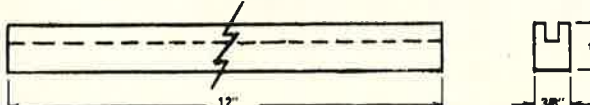
5-77 FLOOR REAR TRIM

2 PCS.



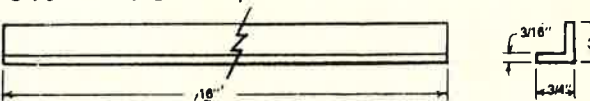
5-78 ATTIC FLOOR SUPPORT

1 PC.



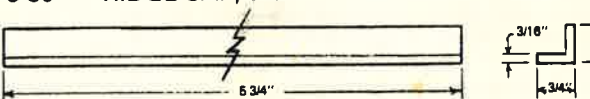
5-79 RIDGE CAP, 16"

1 PC.



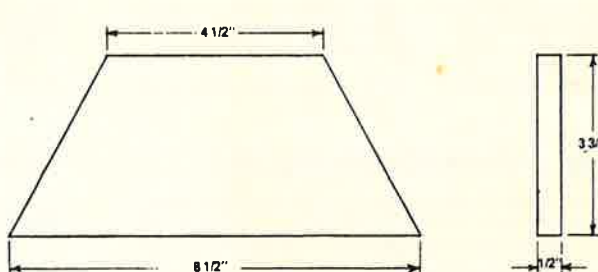
5-80 RIDGE CAP, 5-3/4"

1 PC.



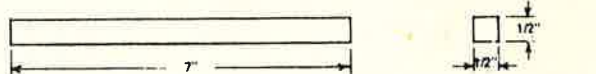
5-81 BALCONY

1 PC.



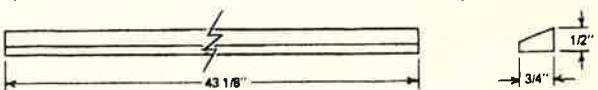
5-82 BALCONY SUPPORT

1 PC.



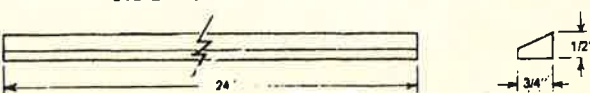
5-83 FRONT PORCH ROOF SUPPORT, 43 1/8"

1 PC.

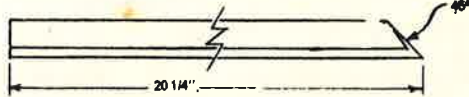


5-84 SIDE PORCH ROOF SUPPORT, 24"

1 PC.

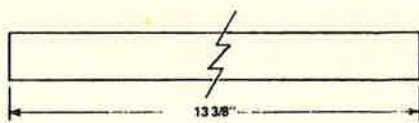


5-85 RIDGE CAP, 20-1/4", 45° CUT

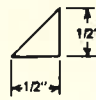


1 PC.

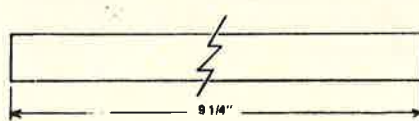
5-86 FILLET MOLDING, 13-3/8"



3 PCS.



5-87 FILLET MOLDING, 9-1/4"



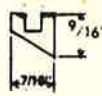
2 PCS.



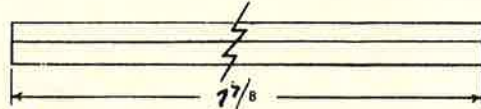
5-88 TOWER CORNER POST 4 7/8"



1 PC.



5-89 TOWER CORNER, 7-7/8"



1 PC.



5-90 TOWER CORNER POST 13"



3 PCS.



5-91 TOWER CORNER POST 19 1/2"



1 PC.



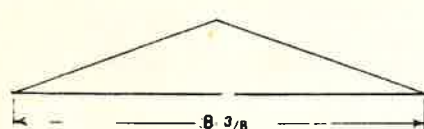
5-92 TOWER CORNER POST 27 5/8"



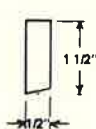
1 PC.



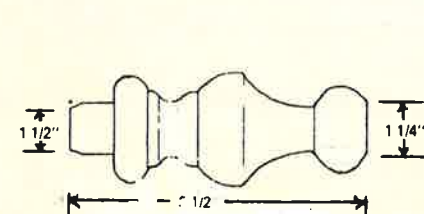
5-93 PORCH DORMER FRONT



1 PC.

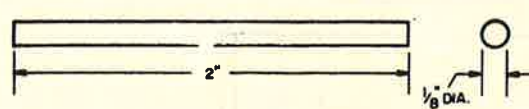


5-94 TOWER FINIAL



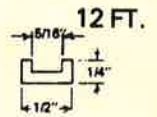
1 PC.

6-2 BANNISTER POST

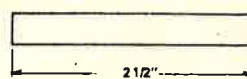


85 PCS.

6-4 PORCH RAILING STOCK

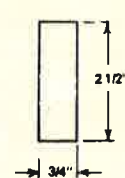
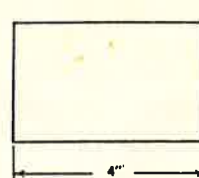


6-6 PORCH RAILING POST



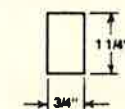
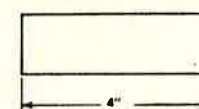
65 PCS.

6-7 PORCH STEP, LOWER



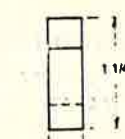
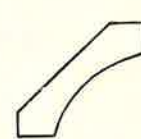
1 PC.

6-8 PORCH STEP, UPPER



1 PC.

6-12 DECORATIVE GUSSET



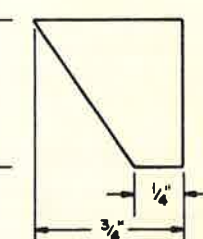
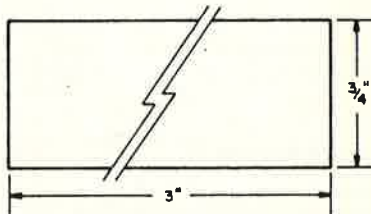
12 PCS.

6-13 STAIRWAY BASE



2 PCS.

6-14 STAIR STEP



26 PCS.

6-17 DOOR KNOB

2 PCS.

6-18 HINGE PINS (1/2 INCH BRADS)

4 PCS.

6-19 HARDWOOD FLOORING

1 PKG.

6-20 WINDOW PANE 2 3/16 x 4 7/16

13 PCS.

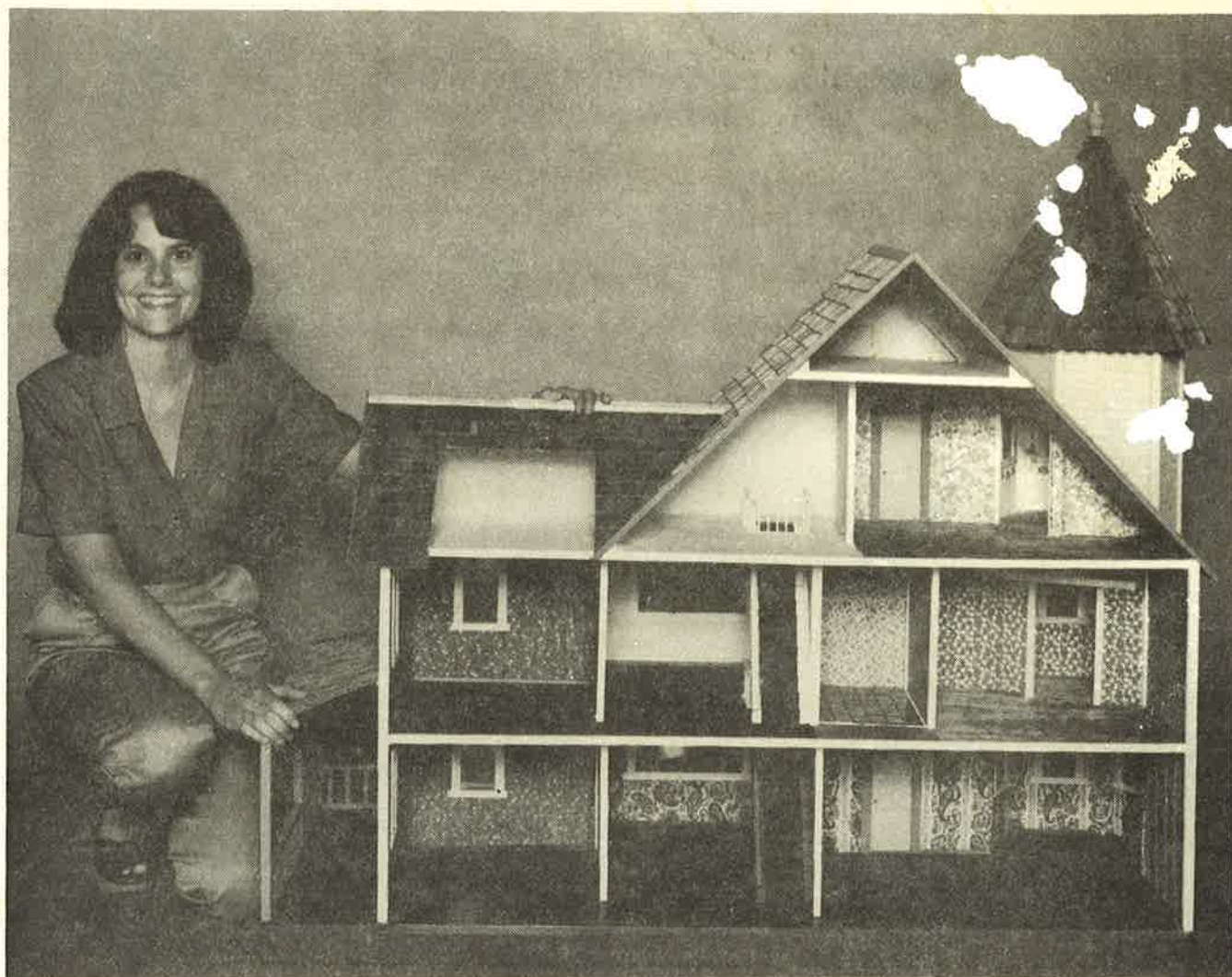
6-21 BAY WINDOW FRONT PANE 3 1/2 x 4 3/4

2 PCS.

6-22 BAY WINDOW SIDE PANE 1 7/8 x 4 3/4

4 PCS.

VM-800 P



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____ASSEMBLED WRONG

PART NO.	QUANTITY	DESCRIPTION

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