

The Smithsonian Catalogue Fall 1982



Doll House, see page 33.

Adaptation

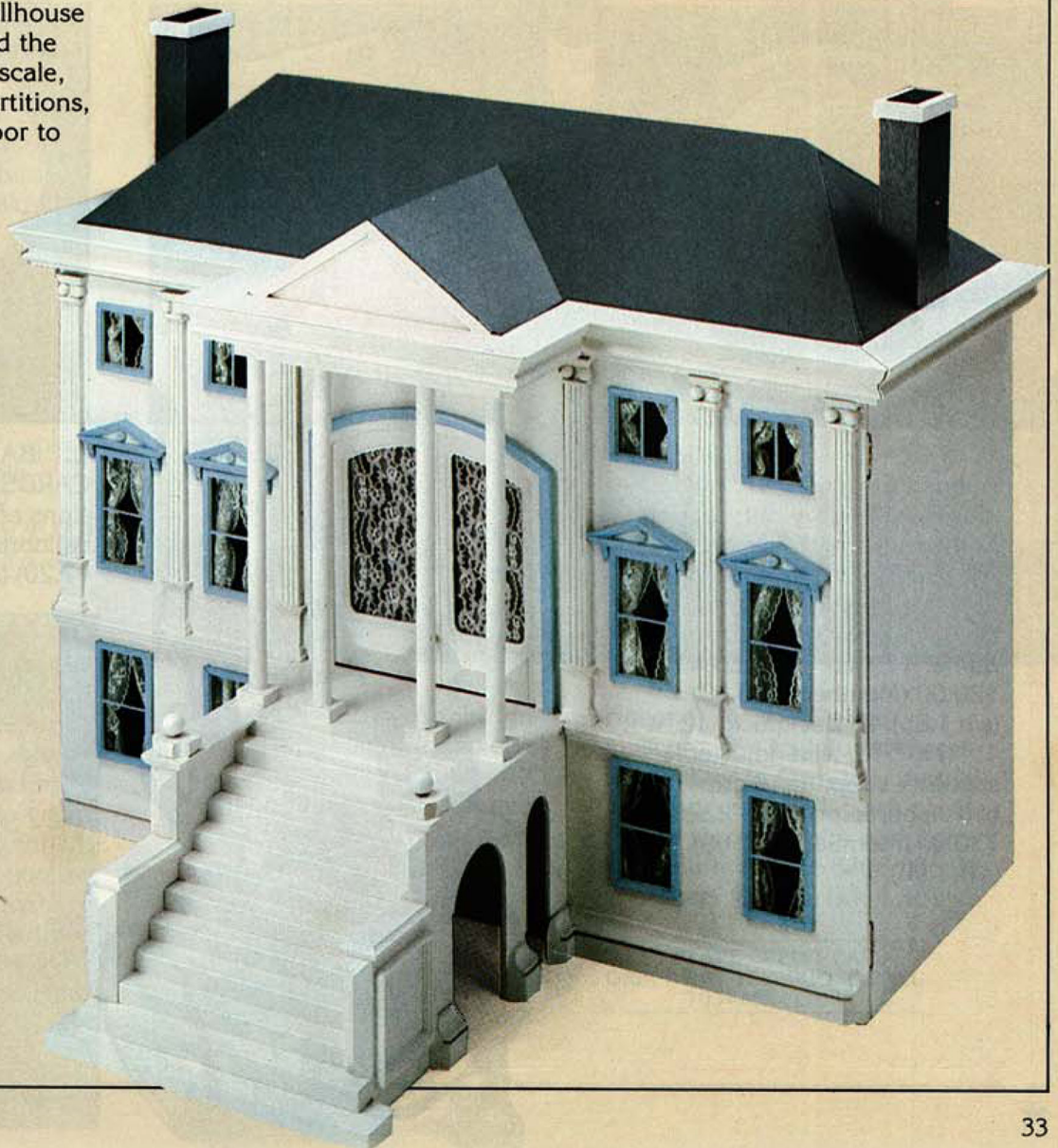
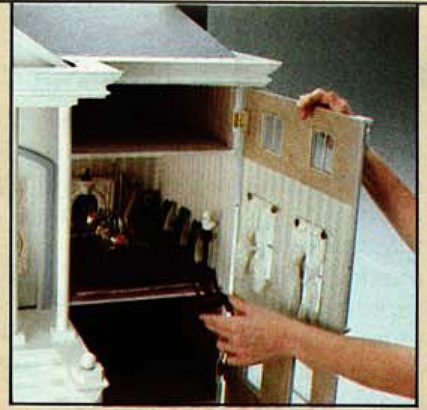
CLEVELAND DOLLHOUSE KIT exemplifies the special challenge an adaptation poses—how to retain the essence of a museum object while making changes to increase its usefulness today.

During Grover Cleveland's second term as President (1893–1897), the White House gardener made a dollhouse for the Cleveland children. Our marketing staff thought that people would like to build their own model of this charming interpretation of the White House, now on view in our National Museum of American History.

After examining the original, our curator and toy marketing specialist worked with John Javna, a craftsman from Vermont, to develop this dollhouse into a kit. They expanded the house to an inch-to-foot scale, added several interior partitions, and raised the middle floor to

make the lower floor usable—carefully preserving the balance and proportions of the original. To gain access to all rooms, they hinged the roof and made the porch removable while retaining the opening front facade and closed back of the original. Then came the piece-by-piece design, with constant reference to the original for accurate moldings, angles, and spatial relationships.

The resulting kit contains pre-cut unpainted wooden pieces, assembled windows, hardware, architectural moldings, and instructions for assembling this beautifully detailed, nine-room 38" x 34" x 30" h dollhouse. (Paint and furnishings not included.) 6913 \$330.00 (Members \$297.00) (s/h 14.50).





HOW TO ASSEMBLE THE "CLEVELAND HOUSE"

The Cleveland House has been designed, built, and displayed with pride by all of us at Real Good Toys.

Even the instructions for this kit have been prepared with more care than any others we have ever done. We hope that you find that they facilitate your assembly of the "Cleveland House" as much as we anticipate

Please remember that it is of great concern to us that you enjoy all facets of your experience with our house; if, during assembly, there is anything we can do to assist you, please let us know. Call us if you like, at 802-479-2217 during business hours. We will be glad to give you advice, guidance, or tell you of the nearest suppliers of other miniatures. If you prefer to write, the address is Real Good Toys, Box 706, Montpelier, Vt. 05602

The instructions are divided into sections, signified by the Roman Numerals - When you are assembling the house, READ THE ENTIRE SECTION DENOTED BY THE ROMAN NUMERALS before actually doing the assembly. We even recommend a "dry run" after reading the section through, just to assure yourself that you understand the placement of the pieces.

The text and the illustrations are on separate sheets of paper. The illustrations, however, refer directly to the text. Note that there is a letter and number(s) below each illustration. This denotes the section of the instructions to which the drawing pertains. Illustrations are also divided by the Roman Numerals that correspond to the main sections of the text.

We assume that you have some knowledge of tools, and since those required in the assembly of the Cleveland House are fairly simple, we have not gone into it in depth. However, we will suggest that:

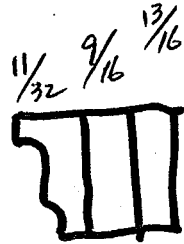
1. If you have any questions, you either call us or contact your local hobby, miniatures, or lumber dealers. All of them have a working knowledge of the materials you'll be using, and they're right there to help you;
2. You use a tack hammer and $\frac{1}{2}$ " or $\frac{3}{4}$ " nails when attaching moldings or small pieces;
3. that you find out what glue a local dealer recommends. We always use Elmer's, but we have the feeling that we're a little old-fashioned up here in Vermont;
4. keep several grits (that's how coarseness is measured) of sandpaper on hand to touch up or smooth out surfaces that you think need it. Everything looks nicer when it's had that extra little bit of sanding.

TOOLS we think you'll need: 1" panel nails (available at any hardware store), $\frac{1}{2}$ " or $\frac{3}{4}$ " nails (ditto), glue, hammer, tack hammer, needlenose pliers (or tweezers, if that's what you've got), paint brush, dish of water, rag, ruler, pencil, screw driver, masking tape, and sometimes, another person.

We have included a sheet called "Introduction for all series of houses", which is a sheet we use to educate beginners vis a vis our standard line of dollhouses. Though some of the things mentioned will not pertain to your house, we think you will find it enlightening overall. Ignore what does not seem relevant.

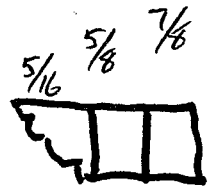
Bag Prepacks

- heavy weight hinges*
- lightweight hinges*
- # 1 2 Knobs *lightweight*
 - 4 Door Hinges + 16 Nails
 - 6 Wall Hinges + 24 Screws
 - 24 Window Top & Bottom Horizontals E-Dadoed
 - 8 Window Vertical - 3rd Story E-Dadoed
 - 8 Window Vertical - 2nd Story E-Dadoed
 - 8 Window Vertical - 1st Story E-Dadoed
 - 8 Horizontal Window Mullion
 - 24 Inside Window Trim Horizontal 1/8 x 1/8 x 2-9/16
 - 8 3rd Story Window Trim - Vertical " " x 2-5/16
 - 8 2nd Story Window Trim - Vertical " " x 4-13/16
 - 8 1st Story Window Trim - Vertical " " x 4-9/16



(A)

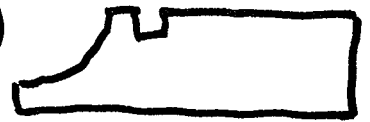
- # 3 4 Window Top Trim - Triangle Base 5/8 B - 4 1/2"
- 4 Window Top Trim - Triangle Left Side 5/8 B - 2 1/2"
- 4 Window Top Trim - Triangle Right Side 5/8 B - 2 1/2"



(B)

- # 4 6 Pedestal Bottom 9/16 A
- 6 Pedestal Middle 3/16 x 7/8 x 1 1/4
- 6 Pedestal Top 5/8 B
- 6 Bead Bottom *COLUMN TOP SUBASS* 1/2 x 5/8 x 1-1/16
- 6 Bead Back *COLUMN TOP BACK* 3/16 x 1/2 x 1
- 6 Bead Top *COLUMN TOP* 5/8 B

(G)



- # 5 8 Brackets
- # 6 2 Porch Light Base 9/16 x 1-5/8 x 1-5/8
- 4 Dowel Bottom 1/2 x 1 1/4 x 1 1/4
- 4 Stair Base Trim F 1-3/4"
- 2 Window Panel Bottom Extension F 1-9/16
- 12 Wooden Balls *BEAD* 1/2"
- 2 Wooden Balls 3/4"
- 4 Dowel Top 3/16 x
- Rubber Banded Packs

(D)



- # 7 2 Porch Triangle Trim 1/4 x 1/2 x 6 1/2
- 2 Attic Hinge Blocks 1/4 x 1 x 4 1/4

- # 8 8 Pieces Inside Door Window Trim - 4 parts (opp.)

- # 9 4 Windows 2-9/16 x 2-9/16
- 4 Windows 2-9/16 x 5-1/16
- 4 Windows 2-9/16 x 4-13/16

(E)



- # 10 2 Door Plexiglass
- # 11 1 Arched Outer Door Horizontal *EXTERIOR ARCHED*
- 1 Arched Inner Door Horizontal *INTERIOR ARCHED*

- #12 6 D Columns
- 2 F Window Panel Bottom 12-3/4
- 1 9/16A Door Panel Top 12-1/8
- 2 13/16 A Front Trim 12-3/8
- ~~4 3/4" Dowels - 13 5/16"~~
- #13 1 Door Gap Cover 10 1/2"
- #14 8 Side Stair Ornaments 3-7/8 x 5/16B
- 2 ~~Outer~~ ^{EXT EXTERIOR} Vertical Door Trim 9-3/4
- #15 2 ~~Inner~~ ^{INTERIOR} Vertical Door Trim 9-3/4
- 2 Side Porch Perimeter Molding 6 1/2"
- 2 Door Diamond
- #16 2 Step Side Diamond - Upper 2-5/8"
- 2 Step Side Diamond - Lower 4 1/4"
- #17 2 Porch Floor Extension 3/8 x 1-25/32 x 5-3/8
- 2 Step Side Horizontal 3/8 x 1-9/16 x 4-3/16
- #18 1 Left Side ~~of~~ Ledge Molding
- 1 Right Side ~~of~~ Ledge Molding
- #19 1 Left Front ~~of~~ Ledge Molding
- 1 Right Front ~~of~~ Ledge Molding
- #20 1 Left Side Porch ~~of~~ Ledge Molding
- 1 Right Side Porch ~~of~~ Ledge Molding
- #21 1 Left Rear ~~of~~ Ledge Molding
- 1 Right Rear ~~of~~ Ledge Molding

Loose Parts Not Prepacked in Box No. 2

- 1 Left Porch Roof
- 1 Right Porch Roof
- 1 Front Porch Triangle
- 2 Middle Floor Interior Dividers
- 2 Attic Partitions
- 1 Front Porch Ledge Molding
- 1 Front Step
- 1 Second Step

#22 4 Dowels - 13 5/16 x 3/4"

PARTS LIST - BOX 1

First Floor - 15 7/8" X 37 3/16"
2nd floor - identical
3rd floor - same size, with large cut out
Lower back panel - 8 15/16" X 37 5/8"
Upper Back Panel - 14 15/16" X 37 5/8"
Front roof panel - 10 1/8" X 37 1/16"
Rear roof panel - 9 7/8" X 37 1/16"
2 arched doors
Porch ceiling - 5" X 10 3/8"
2 outer stair sides
2 first floor dividers 8 3/8" X 15 7/8"
Door panel - arched front 12 1/8" X 14 5/8"
Front panels - 12 3/4" X 23 1/2"
2 triangular Side Roof Panels 9" X 15 13/16"
2 side wall panels 15 7/8" X 23 7/8"
Stair Unit back panel 9 1/8" X 11 5/8"
Porch Floor Panel 6 1/4" X 12 1/8"
4 stair side spacers 11/16" X 4 1/4"
2 Inner stair sides (odd shape) 3 5/8" X 11 7/8"

Prepackaged parts:

Banded together:

2 first story hinge blocks 1" X 8 3/8"
2 2nd story hinge blocks 1" X 9 3/4"

Banded together:

9 stair treads 1 3/8" X 9 3/4"
8 stair risers 5/8" X 9 3/4"
Top Stair Riser 1/2" X 9 3/4"
Bottom Stair Riser 2 1/8" X 9 3/4"

Prepacked in a bag:

I. ASSEMBLE MAIN HOUSE SHELL

A. Attach side walls to bottom floor

1. Find two side panels in box #1
 2. Decide which is right panel, which is left panel. This is determined by the direction of the notches (notches go toward front. See diagram)
 3. When you've decided which is which, prepare the side walls for assembly
 - a. lay side walls down (with outside up)
 - b. set 3 nails (1" panel nails) in each panel, 3/16" up from the bottom edge and not closer than 1" from the side edge
- NOTE: Setting a nail means: starting to nail it into the wood without nailing it in all the way. And don't go THROUGH the wood!
- c. Match the panels up against each other the way they will be on the house, to make double-sure that the notches line up right before nailing
 4. Find the bottom floor panel
 5. This step is a two-person job, so get some one to help you: Stand the bottom floor panel on its short edge
 6. Run a bead of glue along the edge of the floor
 7. Place side wall on bottom floor's edge, with all edges flush
 8. Hammer in nails. If possible, sight from the side to make sure they're going in straight. Otherwise, they'll pierce the floor and you'll have to pull them out.
 9. Repeat steps six through eight on other side, with a person holding the side panel up. The glue will not be dry yet and someone needs to hold it up to keep it from falling apart. You can also use one of the floor panels for easier support.

B. Attach lower back panel

1. Lay assembled house unit face down (with notches down)
2. Locate lower back panel in box. It is 8 15/16" X 37 5/8" X 1/8" thick
3. Lay panel on assembled unit, at bottom (see diagram)
4. With Pencil, mark height of back panel on sides
5. Remove lower back panel, run bead of glue on edges of sides and floor that lower back panel covered
6. Replace lower back panel on assembled unit, with all sides and corners flush. Good idea: use second person to make sure panel stays square with assembled unit while you work with it
7. To nail lower back panel to main unit, use 1/2" nails. You can hammer them in with a tack hammer, or use pliers to push them in
8. Nail lower back panel to floor. If necessary, flex the base floor into proper position and put one 1/2" nail in the center.
9. Put 1/2" nails in the rest of the panel. 3 or 4 total for each side, 7 or 8 for the bottom

C. Attach second floor

1. Locate dividers for first story (), and find second floor panel
2. Place dividers against each inside wall of assembled unit
3. Run bead of glue along each short edge of the second floor
4. Place floor in between sides, resting on dividers. You can bend the walls back to make it easier to insert the floor panel.
5. When floor panel is in, push it back against the rear panel

5. Using either 1" panel nails or a smaller nail (if you don't feel comfortable with the panel nails), nail through the prepunched holes on both sides. This could be a 2-person job: one person securing the house shell while the other nails. Take care to be sure the nail is going in straight.

6. Remove divider; wipe off excess glue with wet sponge or rag

D. Join 2nd floor to lower back panel

1. Put same dividers in center of assembled unit so they support the second floor and keep it straight

2. Pull lower back panel back a little, run bead of glue behind it on 2nd floor edge

3. Push lower back panel against glued surface

4. Lower base panel comes on center onto second floor. Make sure it's an even distance across the expanse of the floor

5. Nail in (or use pliers) $\frac{1}{2}$ " nails, making sure they do not pierce the floor. Also: as you nail it in, keep it spaced evenly from the top of the back panel

6. Angle nails slightly to nail more into the center of the floor panel

7. Start in center, work your way out to the sides

E. Attach 3rd Floor

1. Locate third floor panel (the one with the large notch in it) and the second story dividers ()

2. Repeat steps 2-6 in section I-c

NOTE: Rear edge of floor panel must be flush with rear edge of side walls; cut-out in floor is toward front

F. Attach large back panel

1. Move dividers toward center of house to keep 3rd floor straight

2. Locate large back panel ()

3. Set panel in place

4. On the INSIDE of the assembled unit, draw a pencil line along the rear panel, marking the location of the third floor on the large back panel

5. Remove back panel

6. Lay assembled unit on its face, making sure dividers remain in place

7. Run bead of glue on all exposed rear plywood edges

8. Replace rear panel in position, but REVERSED so lines marking third floor location are now on the outside

9. Make the panel flush on both edges and tight up against the lower back panel

10. Nail across the bottom (angle nails slightly down)

11. Keeping sides flush with back panel, nail from the top corners of the side, down

12. Join panel to 3rd floor. Press down so you are sure the pencil lines line up with the third floor, then nail $\frac{1}{2}$ " nails through the back into the floor edge, on center

G. Clean off house

1. Turn house upright

2. With damp paint brush or rag, wipe off excess glue on joints

H. Attach hinge blocks

1. Select from box 1: rubber-banded unit of 4 plywood pieces that are 1" wide. 2 of them are as long as the 2nd floor dividers are tall (9 3/4"), 2 of them are as long as the first floor divider are tall (8 3/4")
2. Glue 8 3/8" long pieces vertically, between 1st and 2nd floors, against left and right walls. POSITION: Set back from the front edge by exactly the distance of the notches on the front edges of the walls

I. Attach rear ledge molding

1. Find pack #21. This consists of 2 pieces _____ long, with a 1/8" X 1/4" notch along one edge
2. Put pieces in place. They sit on top of the back panel
 - a. notch is at bottom
 - b. notch faces toward the back of the house
 - c. notch fits over 1/8" rear panel
 - d. mitered edges go to the outside, facing the front of the house
 - e. The 2 pieces butt together in the center of the back panel. Back edge is flush with the panel.
 - f. IMPORTANT: make sure the 2 pieces are centered, side to side along the back edge of the assembled unit
3. Once you're sure how the pieces go, remove them and run a bead of glue in the notches. Then replace them. Again, make sure they are centered side to side
4. Nail the pieces into place
 - a. Use 1/2" nails or brads
 - b. Nail through the back panel

J. Attach side ledge molding

1. Find pack # 18. This consists of 2 pieces, _____ " long, with one side mitered. One is the left, one for the right.
2. Put pieces in place. They sit on the side wall
 - a. The wide 1/2 part with the angled groove is the top, with the angle aiming toward the inside of the house
 - b. The flat end goes toward the rear of the house
 - c. The fully mitered end goes to the front of the house
 - d. The 1/4" square groove is on the bottom and fits over the side wall edge
 - e. The back edge of each side piece is flush with the back surface of the rear ledge molding
3. When you're sure of how the pieces go, remove them and run a bead of glue in each of their bottom grooves (the 1/4" square groove) Also put glue on the mitered surface of the rear ledge molding
4. Replace side ledge moldings on walls. Push them back so they join the rear ledge molding at the miter. Rear edges should be flush, side ledge groove should be pushed all the way down
5. Attach rear and side ledge molding with nail
 - a. Use 1" panel nail
 - b. Make sure the top surface of the side ledge molding is flat (perpendicular to the wall)
 - c. Nail thru rear ledge molding into side ledge molding
6. Set entire unit aside to dry.

II ATTACH HINGE BLOCKS TO ROOF PANELS

A. Locate front and rear roof panels in box 1 NOTE: As shown in parts diagram, rear panel is the one with two notches at the top

B. Lay panels face down

1. The face is the smoother (sanded) side
2. The face is the smaller side, relative to the bevel that goes around three sides of each panel (see diagram)

C. Find hinge blocks

1. In Box 1, find the pre-pack that is in a plastic bag
 2. From that plastic bag, take 4 pieces of wood that are 1" X 1½"
- These are the hinge blocks
3. They are going to be glued to the top inside edges of the two roof panels, two on each.

D. Glue hinge blocks to rear roof (the panel with the two notches)

1. Place hinge blocks on rear roof panel
 - a. Center on notches
 - b. Flush to the inside edge of the notches
2. When you feel they are positioned correctly, remove the blocks, put glue on them, then replace in position on rear roof

E. Glue hinge blocks to front roof panel

1. Set front roof panel against the rear roof panel, top to top (still face down)
2. Mark the position of the notches with a pencil
3. Place the 2 hinge blocks on the front panel, centered between the lines that marked the position of the notches, and flush to the top edge of the panel
4. When you are sure the blocks are positioned correctly, remove them, put glue on one side, the replace in position

F. Set panels aside to dry (they must dry thoroughly) and set the remainder of the plastic pack from which you took the hinge blocks aside

III. ATTACH WINDOW TRIM TO FRONT PANELS

A. Take the two front panels from Box 1. Note parts diagram: they are 12 ¾" X 23½", with 6 window openings in each. Identify outside and inside surfaces

1. Top of panel is designated by smallest window opening
2. Outside surface is smoothest one (best sanded)

III. ATTACH WINDOW TRIM TO FRONT PANELS

A. Locate the 2 front panels in box 1. Note on parts diagram: they are 12 3/4" X 23 1/2", with 6 window openings in each. There is a left panel, and a right panel (see diagram)

B. Identify outside and inside surfaces, decide which panel is left, which is right

1. Top of panel is designated by smallest window opening
2. Exterior surface is the smoothest one (best sanded)
3. Outside edges are the ones without notches (conversely, the edges with notches are the inside edges of the panels)

C. Remove corners from window openings

1. Corners of window openings have a small radius which needs to be squared off

2. Use a sharp kitchen knife or other comparable tool
3. With the knife, make the corners of the window openings square, to allow the window to fit in it. Cut or whittle.

4. Locate pack #9 in Box 2 (each of three different window sizes)

- a. open pack, remove one each of the 3 different windows
- b. try each window size in appropriate window opening, to be sure they have a slightly loose fit. If the windows are too tight, you can either sand the windows or continue to trim the opening with your knife.

D. Attach Interior window trim

1. Lay panels face down on a flat, clean work surface (a Formica counter top is ideal)

2. Peel the paper off all the window panels and drop them in the appropriate window openings on the panels. They should be lying against the counter top or table top (or whatever surface you're using)

3. Locate Pack #2 from Box 2

a. This contains all of the window trim, both interior and exterior

b. extract all the pieces that are 1/8" X 1/8" thick

c. There are 12 pieces 1/8" X 1/8" which are the shortest. These are the mullions. Return them to the pack

d. There should be 36 pieces of 1/8" X 1/8" left, in a total of 4 lengths. Separate them by lengths.

e. In order of shortest to longest, here's what the pieces are used for: 3rd floor window verticals, window horizontals for all floors, 1st floor vertical trim, 2nd floor vertical trim

4. Attach window horizontals

a. Separate the second shortest size 1/8 X 1/8, which are the window horizontals

b. Lay them diagonally over the windows with one edge in a corner of the window opening (see diagram)

c. Begin moving the other end of the piece, so that the piece is moving into a horizontal position, until there is about 1/4" space left between the end of the horizontal and the window opening

d. Put dab of glue on horizontal end, and window opening

e. Press the horizontal the rest of the way, so it sits tightly into the corner

f. Repeat on all twelve windows, top and bottom

5. Attach top window verticals

a. select the shortest of the 1/8 X 1/8 pieces

b. repeat procedure you used with the horizontals, but

on third floor windows, in vertical position

6. Attach first and second floor vertical window trim
 - a. Sort remaining 1/8 X 1.8 into two sizes - smaller is first floor verticals, larger is for second floor windows
 - b. repeat procedure in step5.

- E. D. Attach exterior window trim
1. Turn front panels over, laying them face up on your work surface
Plexi windows should remain in the window openings
 2. Go back to pack #2, take out all the rest of the pieces in it
 3. Sort them according to length
 - a. There are 3 different lengths of straight window molding (window vertical trim)
 - b. There is one length of notched window molding
 - c. There are the 1/8 X 1/8 mullions that you handled once already
 4. Pre-assemble the third floor exterior window trim
 - a. Take the shortest length of straight window molding (" - 8 pieces) and eight of the notched window trim pieces
 - b. Set them up as four windows, butting the window vertical trim into the notch of the horizontals (see diagram)
 - c. When you are sure you have this correct, remove pieces and apply glue to the ends of the verticals
 - d. Replace in position, making sure this unit does not stick to the table surface and making sure it is square
 - e. Set aside and let dry until tacky, but not firmly set and hard
 5. Attach 3rd floor exterior window trim to front panel
 - a. When exterior window trim is tacky, turn upside down and run a bead of glue all the way around the outside of the square
 - b. Make sure the plexi windows are in the window openings
 - c. Turn exterior window assembly over and glue them, CENTERED, over the third floors window openings
 - d. Go all the way across, doing all four windows
 - e. By the time you're done with all four, the first two windows you attached (the first panel) are probably sticky enough to be handled without falling off the panel. Make sure of this before proceeding. If not, wait until the trim can be moved, but won't slide off
 - f. Stand up one of the panels
 - g. Look at the fit of the trim from the back
 - h. Make sure the exterior trim is concentric with the interior window trim and that it forms a good square
 - i. If not, make necessary adjustments
 - j. Lay first panel back down, face up
 - k. Repeat entire checking procedure with the 2nd panel
 6. Preassemble and attach 2nd floor exterior window trim
 - a. Find 8 longest straight window molding (") and 8 notched window moldings
 - b. Repeat steps in III-4 and III-5 exactly, but on 2nd floor windows this time
 7. Preassemble and attach 1st floor exterior window trim
 - a. Find remaining 8 straight window moldings and 8 notched window moldings
 - b. Repeat steps in III-4 and III-5 exactly, but on 1st floor windows
 8. Put window mullions (the 1/8" X 1/8" pieces) back into bag #2, and put them and the window panels aside while the panels dry.

V. ATTACH ROOF TO MAIN HOUSE

A. Retrieve main house. It should be dry by now, so you can work with it without any fear of pulling anything out of position

B. Insert 3rd floor room dividers

1. Locate the two 3rd floor room dividers in Box 2 (the triangular-shaped ones)

2. Put them on the third floor of your house, dividing it up into thirds

3. Make sure you still have dividers in the floors underneath the third floor dividers so everything will stay nice and level

4. It is not necessary or desirable to glue the dividers in place until after the entire assembly is done - when you are sure about the desired room sizes. Even then, gluing them in limits your fun in the future. We don't recommend it.

5. If you need to, you can use masking tape to hold the third floor dividers in place

6. Doors are toward the rear of the house

C. Attach side roof panels

1. Locate side roof panels in Box 1 (identify using parts diagram)

2. Place side roof panels in angled grooves on side ledge moldings

a. The two bevelled edges are the top edges (square edge is the one that goes in the groove)

b. Bevelled surface/edge faces the outside of the house

c. Make sure side roof panels can slide all the way back in grooves, so that the bevel on the side roof panels is flush with the bevel on the rear ledge molding

d. If not, you may have to trim the joint between the rear ledge molding and the groove in the side ledge molding, to have a nice fit

3. Remove panels from groove

4. Run bead of glue in the side ledge molding grooves

5. Replace side panel in proper position described in step 2. Rear bevel must be flush with bevel on rear ledge molding

6. Wait a few minutes until the glue hardens (or if you're impatient, put one 1" nail through the side roof panel into the ledge molding to keep it from sliding around)

D. Attach front and back roofs

1. Run bead of glue along rear edges of the side roof panels AND along the bevelled surface of the rear ledge molding

a. Rear roof panel rests on glued edge of side roof panel

b. Rear roof panel bottom rests against bevelled edge of rear ledge molding (now covered with glue), forming glue joint

c. Joint where rear roof panel and side roof panels meet should be a flush corner

d. Flush fit at peaks of roof panels

e. To keep in position temporarily, you can use sewing pins or needles until the glue is hard. Once the glue is hard, the roof can be nailed into position

2. Place front and rear roof panel unit in position over the side roof panels

3. Immediately nail the roof assembly into position by nailing across the lower edge of the rear roof panel, into the rear ledge molding

E., Make sure front panel opens and closes smoothly (if not, trim a little off the bottom edge of the front panel), and that the dividers are still resting in place. Then put the house aside until the roof dries.

VI ATTACH COLUMNS AND REMAINING TRIM TO FRONT PANELS

A. Retrieve front panels. Window trim must be dry. Otherwise wait until it is.

B. Locate packs # 4,5,6,12, and 13 from box 2

C. Open pack #4

1. It contains a whole group of little blocks that are part of the front column assembly (6 of each)

2. Note: there are two parts in pack #4 that look very similar, one slightly larger than the other. Make a careful distinction between them

D. Make pedestal sub-assembly

1. This is located on the house below the column (column base)

2. It consists of three pieces glued together

3. the 3 pieces are: the largest of the pack#4 molding cut-offs, the largest pack #4 square block, and the larger of the two similar molding pieces

3. The 3 pieces are: the largest of the pack #4 molding cut-offs (5/8 X 9/16 X 1 1/2), the largest pack #4 square block (1/4 X 7/8 X 1 1/4), and the larger of the two similar molding pieces (3/8 X 5/8 X 1 3/8)

4. There are six of each piece

5. Glue the 3 pieces together as per diagram

a. unit must be flat on back surface

b. run bead of glue along top and bottom edge of middle piece

c. middle piece is centered along the narrower edges of the top and bottom pieces

d. squeeze them together, making sure that the glue that squirts out the back doesn't stick to the table surface

6. Glue the other five together now. Six total. Set them aside to dry

E. Make the column top sub-assembly

1. Located on house at top of column

2. Consists of 3 pieces glued together

3. The 3 pieces are: the smaller of the similar pack #4 moldings (1 1/4" long), a 1/2" X 1" rectangular piece, and a 5/8" X 1 1/16" piece with a notch on one side

4. There are six of each you will make six of each sub-assembly

5. Glue pieces together as per diagram

a. Back surface must be flat

b. Run bead of glue along top and bottom of center piece (see diagram)

c. squeeze unit together, careful not to let glue squirt out back and stick to table surface

d. After six are done, set aside to dry

F. Attach Beads

IV MOUNT HINGES ON ROOF

A. Retrieve roof panels. The glue on the hinge blocks must be dry enough to handle. If not, wait.

B. Locate pack #1 in Box 2 (the hinge and knobs pack)

1. Open it and dump the contents into a cup or bowl
2. Note that there are two different kinds of hinges in the pack - lightweight hinges with curvy outside edges, and heavyweight hinges that are square in the outside
3. Remove 8 screws and 2 of the heavyweight hinges from the pack and set the rest aside

C. Mount hinges on rear roof panel

1. Remember: the rear roof panel is the one with the notches
2. Stand rear roof panel on edge, with notches in the air.
3. Place one of the heavy hinges in position (see diagram)
 - a. edge of hinge is flush with edge of hinge block
 - b. hinge pin faces toward the outside, or smoother (better sanded) surface
 - c. hinge is centered within the notch
4. Holding hinge in place, prepunch screw holes with a nail
This can also be done by making a pencil mark where the hinge screw holes are (tracing a circle), removing the hinge, and then punching a hole (with a nail) in the pencil-marked spot. This makes screwing a lot easier later.
5. After holes are punched, put a small dab of glue over each one of the holes and press it in with your finger
6. Replace hinge in position on panel, flush with the edge of the hinge block and centered in the notch
7. Screw the hinge into position, using the pre-punched holes to guide the screws
8. Repeat steps 3 through 7 with other hinge on other end of same panel

D. Mount hinges on front roof panel

F. Attach Beads

1. Locate beads in pack #6, box 2. There are twelve of them.
2. they are inserted in the "column top sub-assembly"
3. Put dab of glue on back and bottom of beads, and place in sub-assembly as shown in diagram
4. Do all six sub-assemblies

G. Draw pencil lines on front panels for molding placement

1. On each edge of each front panel measure $9 \frac{1}{8}$ " up from the bottom and make a mark with a pencil
2. Connect the two marks with a straight edge, giving you a straight line parallel to the bottom edge of the front panels, $9 \frac{1}{8}$ " from it
3. Just above that line, measure and mark 3 points from the outside edge of the panel, $\frac{1}{4}$ ", $1\frac{1}{4}$ ", and $5 \frac{15}{16}$ "
 - a. Do it first from left side
 - b. Then do it from right side
 - c. Repeat on second panel
4. Repeat this process next to the top of the front panel (on both panels) See diagram.
5. Connect the lower marks to the corresponding marks in the upper group
6. You will have three spaces on each panel, 1" wide: one centered and one $\frac{1}{4}$ " away from each outside edge of the panel. These spaces mark the position of the columns

NOTE: MAKE SURE YOU HAVE DONE THIS CORRECTLY. THE COLUMNS MUST BE PROPERLY POSITIONED SO THEY DON'T INTERFERE WITH THE REST OF THE PIECES THAT GET ATTACHED TO THE FRONT

H. Attach column assembly to front panels

1. Attach "column top sub-assembly"
 - a. glue to front panel with molded end on top
 - b. top is flush with top of panel
 - c. Unit is centered within the 1" pair of lines
 - d. Do all six - all flush to the top, all centered within the 1" lines
2. Attach column
 - a. Locate fluted moldings (columns) in pack #12
 - b. Run bead of glue along flat surface of column, put dab of glue on one end
 - c. Place with glued end up against "column top sub-assembly", with column centered in 1" pair of lines
 - d. do all six the same way
3. Attach pedestal sub-assembly
 - a. Run bead of glue on back of sub-assembly, dab glue on bottom edge of column
 - b. Place pedestal in position at base of column, again within the 1" pair of lines
 - c. The bottom of the pedestal should come exactly to the line you made, $9 \frac{1}{8}$ " above the bottom of the front panel

I. Attach upper horizontal molding

1. Locate pack #13
2. Extract 2 molding pieces, " long. These are each the same length as the

VIII HANG FRONT PANELS TO MAIN UNIT

A. Locate 4 heavyweight hinges from pack #1, plus 16 screws

B. Attach hinges to main house unit

1. Place hinge in notch on side wall, with pin hanging out past wall, inside edge of hinge flush with inside edge of hinge block (see diagram)

2. Using nail, prepunch hole in hinge screw hole; or use pencil to trace location, and remove hinge - then prepunch hole at pencil marks. Do this for all four hinge locations - 8 holes.

3. After holes are punched, put small dab of glue over each one of the holes and press it in with your finger. This is important!

4. Replace hinges in position on panel, flush with the inside edges of the hinge blocks. Screw them in place (see diagram)

C. Attach hinges to front panels

1. Hold the front panels at the side of the house, small windows on top, interior surface forward, notch on edge of panels to outside.

2. Panel is tucked behind hinge pins

3. Lift panels and put something under them to prop them up so they are touching the side ledge molding. This is to insure swinging.

4. Hold out the hinges on that side and mark the screw holes with a pencil, where the hinge meets the front panel.

5. Remove panels and prepunch holes at pencil marks

6. Replace panels and screw the hinges on, using prepunched holes as a guide

7. Front panels are now attached to the main house unit

IX ASSEMBLE CHIMNEYS

A. Locate chimney parts in plastic bag package in box 1.

B. Sort out and identify parts, using assembly diagram as guide

C. Assemble chimney, following instructions in diagram.

D. Chimney sits on side roof, as shown in first picture

VII ASSEMBLE DOORS AND DOOR PANEL

A. Locate doors and door panel and door trim

1. Determine front and back sides of doors and door panel
2. You will use all or part of packs # 1, 8, 10, 11, 15, 16
3. Look trim parts over now. Sand whatever needs, being careful not to lose track of which parts come from which pack
4. Sand only surface of trim
5. Sand door, particularly front grooves and edges
6. Using a nail, start a hole in the place where the door knob will go (see diagram)

B. Attach interior trim to door panel

1. Lay door panel face down (on formica, if you have it)
2. Lay doors face down inside door opening
3. Locate inside door trim
 - a. vertical: pack #15 - 9 5/8" X 1/8" thick, with mitered edges
 - b. Horizontal: Pack #11 - thinner of the two arches
4. Lay trim around door opening, trim edges even with door opening edges
5. When you're sure they're properly in position, glue trim on
6. Vertical trim will be approx. 3/8" from the panel bottom edge
7. Set aside to dry

C. Attach interior trim and windows to door

1. Place doors face down in front of you
2. Locate door windows in pack #10
 - a. peel off paper from windows
 - b. try to fit windows into place on door
 - c. Sand points off corners of windows if necessary, for slightly loose fit (if window doesn't fit)
3. Locate interior door window trim in pack # 8, box 2
 - a. there are 8 pieces, 4 different parts
 - b. match the parts up, and select the left and right parts based on the better exterior sides
 - c. Place trim on doors as shown in diagram, overlapping the door opening slightly
 - d. When you're satisfied that trim is on correctly, remove it, run bead of glue on back edges, and replace
 - e. Set door aside to dry

D. Attach hinges to door, hang door on panel

1. Set door pair inside arched door opening, face down
2. You should space the doors equally from top, sides, and between the doors
3. Decide if you would prefer to nail hinges on, using 1/2" nails supplied, or epoxy. Both work fine. Hinges will be attached as shown in diagram
4. Use the lightweight hinges from pack #1, box 2. Two per door.
5. In attaching door, hinge must be straight or door will not swing
6. Place hinge on door (see diagram). Fold hinge over so that hinge pin rests on door (this helps keep the hinge straight)
7. Glue or nail hinge to door. If you nail, use a pair of tweezers to hold the nail upright
8. Attach all four hinges to the doors (see diagram)
9. With even spacing on top, side, and between the doors, nail the hinge to the panel as shown in diagram

I. Attach upper horizontal Moldings

1. Locate pack #13
2. Extract 2 molding pieces 12 3/4" long. These are each the same length as the front panels
3. Run a bead of glue along the back edge of one of the molding pieces
4. Place molding at line 9 1/8" from bottom of front panel, up against the pedestal
5. Molding edge should be flush to front panel edges
6. Repeat on other panel with other molding

J. Attach bottom horizontal moldings

1. Locate the two mitered pieces in pack #13
2. Refer to diagram to see how they are positioned on left and right panels
3. Run bead of glue along flat side (back) of molding
4. Glue to front panel
 - a. Bottom edge of molding is flush to bottom of front panel
 - b. Squared end of molding is at outside edge of front panel
 - c. mitered edge points in towards center of house.
5. Go back to pack #6 and locate a similar (but much smaller) piece of molding. It has a miter that will match the miter of the bottom horizontal molding you just attached. Note: there are six pieces of molding in this pack, but only 2 of them have a 45 degree miter
6. Run bead of glue along the mitered edge of the short piece from pack #6
7. Attach to bottom horizontal molding, as per diagram. It should create a small extension at a right angle.
8. Make sure the edges are flush and the moldings match up.
9. Repeat on other panel

K. Make and affix window triangles

1. Locate pack #3 and #5 in box 2
 2. Note contents of pack #3. There are 3 different parts:
 - a. long part
 - b. 2 smaller parts that are mirror images of each other
 3. These three pieces form a triangle (see diagram)
 4. Put glue on ends of pieces, form triangle, glue together
- Note: moldings should all be assembled with flat side down; moldings should meet in inside of triangle in continuous line
5. Make six triangles. Then set them aside to dry
 6. When triangles can be handled, glue them to the front panel
 - a. They go above the middle windows only
 - b. Position 3/16" over the window
 - c. Center between columns
 - d. MAKE SURE bottom edges of triangles line up with each other
 7. Open pack #5. Note: contents are brackets that go under each end of the window triangles
 8. Put a spot of glue on each one, glue in place.

E. Mark front of door panel for porch floor

1. turn door panel (with doors hung) over so it's face up
2. using a straight edge (or a piece of plywood), draw a line at the base of the panel, about $\frac{1}{4}$ " from the bottom edge (it can be a shy $\frac{1}{4}$ ", but not a fat $\frac{1}{4}$ ")

F. Attach exterior door trim

1. Locate exterior door trim in pack #15 (verticals) and pack #11 (arch). They are ornamentally molded.
2. Place the trim on the door panel, around the door opening, overlapping the door opening about $\frac{1}{8}$ ". Bottom of door verticals is at $\frac{1}{4}$ " line that was drawn on panel
3. When this seems to be in the correct position, remove trim, run bead of glue along back, and replace in position
4. Double check to make sure it's straight and even

G. Attach door knobs

1. Knobs are in pack #1
2. They are threaded
3. Screw them into the pre-punched holes you made for them

H. Attach Diamonds to door panels

1. Locate diamonds in pack #16. There are three sets of diamonds in pack 16 . The door pieces are the largest set.
2. Lay the door diamonds on the door, below the window, centered as shown on diagram
3. When position is established, remove diamond, put glue on back, and replace in position
4. If you desire, sand the edges of the diamond after it's glued to make a smooth joint

I. Attach Door center vertical

1. Locate a $\frac{1}{8}$ " X $10\frac{1}{2}$ " long piece in pack #13
2. This piece is glued on one of the door panels (it doesn't matter which), to cover the space between the doors
3. It is glued on the outside, as shown in diagram, overlapping the door to which it is not glued as well.
4. Go ahead and glue it on, making sure it's straight up