

*Read the instructions all the way through, and test the parts for identification, to see how they fit, and to plan ahead for the finishing materials you have chosen.*

*Paint the exposed surfaces of the Rails, Stripwood, Door, and Window parts before assembly; but do not sand or paint the gluing edges.*

*Planning makes the project easier!*

**Parts List:** Measurements are for parts identification only

**Walls and Trim:**

- (3) E3835 Round Window Wall: ( $\frac{3}{8}$ Milled) 14 x  $3\frac{9}{32}$ , Bev. Grooved
- (1) E3836 2-Window Wall: ( $\frac{3}{8}$ Milled) 14 x  $3\frac{9}{32}$ , Bev. Grooved
- (1) E3837 Entry Wall: ( $\frac{3}{8}$ Milled) 14 x  $3\frac{9}{32}$ , Bev. Grooved
- (1) E3838 Left Back Wall: ( $\frac{3}{8}$ Milled) 14 x  $1\frac{3}{16}$ , Bev. Grooved
- (1) E3839 Right Back Wall: ( $\frac{3}{8}$ Milled) 14 x  $1\frac{3}{16}$ , Bev. Grooved
- (2) E3889 Banding Stripwood: ( $\frac{3}{8}$  x  $\frac{3}{32}$ ) 14
- (1) E3890 Wirecap Stripwood: ( $\frac{1}{4}$  x  $\frac{3}{32}$ ) 14
- (2) E3860 Wirecap Corner: ( $\frac{3}{8}$  x  $\frac{1}{2}$ ) 14

**Small Box:**

- (2) E3852 Stair Landing: ( $\frac{1}{8}$ MDF) 1, Diamond Shape
- (2) E3886 Groove-Fill: ( $\frac{1}{4}$ MDF)  $\frac{7}{64}$  x  $1\frac{11}{16}$
- (2) E3872 Entry Side Trim: ( $\frac{3}{8}$  x  $\frac{3}{32}$ )  $3\frac{1}{4}$ , Mitered
- (1) E3885 Rooftop Bead: ( $\frac{1}{2}$ ) with stem
- (8) E3888 Beacon Mullion: ( $\frac{3}{16}$  x  $\frac{3}{32}$ ) 4
- (12) E3876 Horizontal Window Frame:  $1\frac{9}{16}$ , Mitered
- (8) E3862 Gallery Post: ( $\frac{1}{4}$ Pine)  $1\frac{1}{4}$ , Bev.
- (1) E3849 Step: ( $\frac{1}{4}$ MDF)  $1\frac{9}{16}$  x  $\frac{1}{2}$
- (1) E3868-9 Ladder (assembled)
- (3) E3874 Round Window Pane
- (3) E3875 Standard Window Pane

**Large Box:**

- (1) E3842 Entry Front: ( $\frac{3}{8}$ Milled)  $1\frac{1}{2}$  x  $1\frac{1}{2}$ , Peaked
- (1) E3845 Entry Left Side: ( $\frac{3}{8}$ Milled) 4 x  $2\frac{7}{8}$ , Bev.
- (1) E3844 Entry Right Side: ( $\frac{3}{8}$ Milled) 4 x  $2\frac{7}{8}$ , Bev.
- (1) E3848 Entry Floor: ( $\frac{1}{4}$ MDF)  $1\frac{13}{16}$  x  $2\frac{9}{16}$
- (1) E3846 Entry Left Roof: ( $\frac{1}{8}$ MDF)  $3\frac{5}{16}$  x 2, Bev.
- (1) E3847 Entry Right Roof: ( $\frac{1}{8}$ MDF)  $3\frac{5}{16}$  x 2, Bev.
- (1) E3850L Entry Left Foundation: ( $\frac{1}{2}$ MDF)  $\frac{3}{4}$  x  $3\frac{5}{32}$ , inlet
- (1) E3850R Entry Right Foundation: ( $\frac{1}{2}$ MDF)  $\frac{3}{4}$  x  $3\frac{5}{32}$ , inlet
- (8) E3840 Lower Beacon Wall: ( $\frac{3}{8}$ Milled)  $1\frac{7}{16}$  x  $1\frac{15}{32}$
- (8) E3841 Upper Beacon Wall: ( $\frac{3}{8}$ Milled)  $\frac{5}{8}$  x  $1\frac{15}{32}$
- (8) E3887 Beacon Connectors ( $\frac{3}{8}$ Pine)  $5\frac{1}{8}$ , Bev.
- (8) E3859 Beacon Roof: ( $\frac{1}{4}$ MDF)  $2\frac{7}{8}$  x  $2\frac{3}{16}$  Base, Bev.
- (8) E3863-4 Gallery Rail: (assembled)  $2\frac{11}{16}$
- (6) E3865-7 Gallery Support Bracket: (assembled)
- (4) E3851 Stair Block ( $\frac{3}{8}$  MDF)  $2\frac{15}{16}$  x 1, Bev.
- (1) H6040 Door (assembled)
- (12) E3877 Vertical Window Frame ( $\frac{1}{4}$ "L")  $3\frac{9}{16}$ , Mitered
- (6) E3873 Round Window Frame

**Lens and bulbs** (bubble wrapped):

- (1) E3917 Lens
- (1) E3918 Steady bulb (replace with an ordinary night light bulb)
- (1) E3919 Blinking bulb (replace with an ordinary Christmas bulb)
- (1) GW1002 Door Knob
- (8) E3861 Post Bead: ( $\frac{1}{4}$ ) with stem

- (1) E3920 Cord w/ Switch & Plug

**Floors (octagons):**

- (1) E3856 Gallery Deck: ( $\frac{1}{4}$ MDF)  $7\frac{1}{2}$ , Ladder hole
- (1) E3855 Base Floor: ( $\frac{1}{4}$ MDF)  $7\frac{1}{2}$
- (1) E3854 Second Floor: ( $\frac{1}{4}$ MDF)  $6\frac{11}{16}$ , Stair hole
- (1) E3853 Third Floor: ( $\frac{1}{4}$ MDF)  $5\frac{15}{16}$ , Stair hole
- (1) E3857 Foundation Base: ( $\frac{3}{4}$ MDF)  $8\frac{1}{4}$ , notched



Congratulations on your purchase of a *Real Good Toys* product. Your kit has been precision made with meticulous care by experienced craftpeople using only the finest quality materials.

This lighthouse will last for years, even generations, if proper care and attention is given during assembly. Take your time during assembly and be sure to read the instructions completely before you proceed.

Check all parts and packs against the parts list before beginning construction to identify the parts and to make sure you have everything. If you need replacement parts be sure to include the exact name and measurements taken directly from the parts list.

#### Assembly Notes:

A large, clutter-free, well lighted work area is most helpful during assembly, and a flat work surface is essential.

#### Supplies:

White glue	Fine Tooth Saw
Masking tape	Sandpaper
Elastic bands	Pencil
Utility knife	Ruler

Don't be stingy with glue or tape. Use generous amounts of glue. Always wipe off excess glue immediately.

Read the instructions carefully, look at each of the illustrations. With the parts in your hands, think the assembly through before you proceed.

Always test fit (no glue) parts before final assembly.

Check all the joints to be sure everything is tight or straight. If more tape or a helper is needed, it's good to know that before the parts have glue on them.

**Make sure everything is straight and flat as the glue dries ... That's the shape that will be permanent.** Make all joints flush. Keep surfaces and edges square.

**Painting:** Use high quality semi-gloss latex enamel, sanding between coats with 320 grit silicone carbide sandpaper. Avoid old gloppy paint and poor quality paint brushes. Do not paint surfaces to be glued. After assembly but before any outside details are attached, repair any defects, sand carefully with 320 grit silicone carbide sandpaper one clapboard course at a time, then re-paint. Sometimes a 3rd coat is necessary.

#### Options:

A wide variety of materials and accessories are available to help you achieve your dream house.

The following is a partial list of accessories available through your dealer from *Real Good Toys*.

#T10	Turntable
#EL66	All-purpose MDF punch set (Handy for pre-punching and a variety of electrification operations)

#### Note:

*Real Good Toys, Inc.* does not guarantee the operation or safety of the bulb or wiring supplied with the lighthouse. This electrical equipment is responsibly manufactured, U.L. Listed, and packaged with care. The assembler must feel comfortable that these parts are safe to use.

The flashing bulb supplied with this kit is only provided as an **example** of the **right size bulb**. Larger bulbs will not fit through the hole in the Deck, and require other access for replacement. The lighthouse is very attractive with a steady light, or even no light at all.

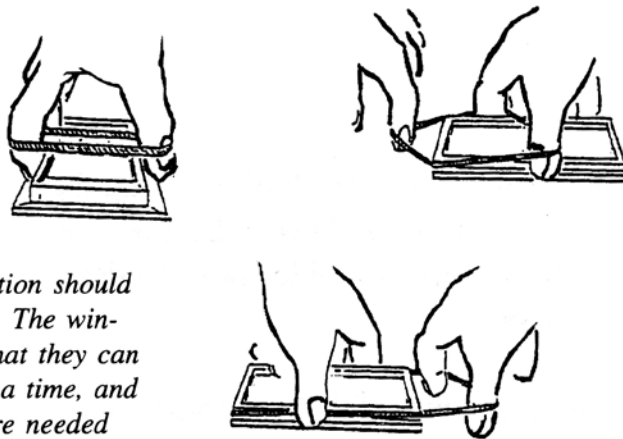
Never use electrical equipment that is worn or broken. Never run electrical wires under furniture or rugs.



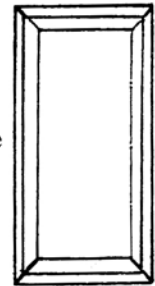
HLH-22 Lighthouse plus 9601 Keepers House  
each is purchased separately



**Windows:**



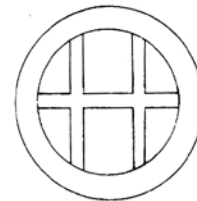
Top Frame



Side Frame

*The parts used in this section should be painted ahead of time. The windows are shown first so that they can be worked on one step at a time, and will be done when they are needed*

- 1. Test assemble (**no glue**) a window set  
Practice holding the frame pieces face-down on the work surface and putting on the rubber band. When you can do it every time without pieces flying, then you are ready for glue.
- 2. Glue and rubber band together all (6) window frames. Make sure each assembly is square as the glue dries.
- 3. Paint all the window frames (the round windows too) two or three coats. Sand between each coat with 320 grit
- 4. All windows: Two frames will be used for each unit. The printed plexi sets between the interior and exterior frames.
- 5. Check the fit of the windows in the openings. Make sure the windows can sit level with the Lighthouse. Trim the corners of the openings square if necessary for a good fit.  
Glue the windows in place only after the Lighthouse body is assembled and painted.



**Pre-Assembled Door:**

*This Special Edition kit includes an assembled door. If it has not been painted, do so now.*

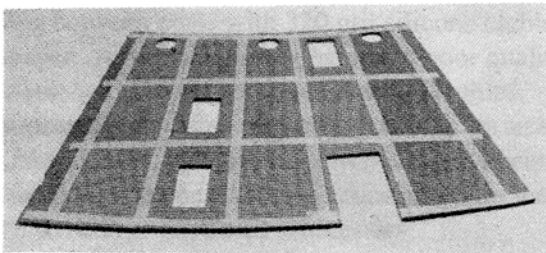
- Glue the door in place only after the Entryway is assembled and painted.



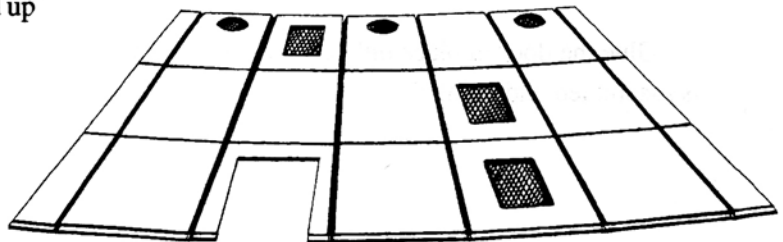
This empty space is the result of rewriting the instructions for our new “Special Edition” kit which included fully assembled rails, ladder and front door.

If any of the glue joints of the assembled components included in this kit have been jarred loose during shipping, they can easily be re-glued using white glue. After applying glue to any component, clean up any drippings and set aside to dry, taking extra care to make sure the parts are setting square while the glue dries.

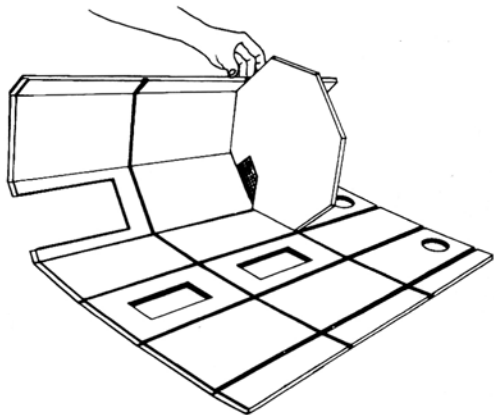
### Tower Walls:



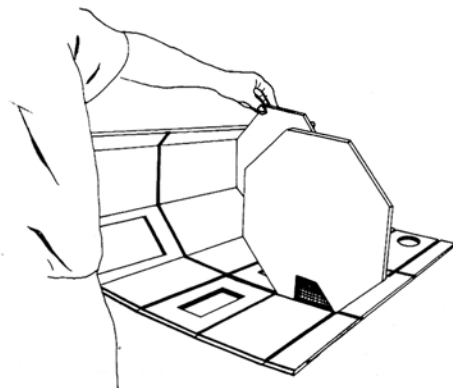
1. Lay out the pre-painted Walls with the clapboard facing up. Tape the wall set together, carefully lined up at the bottom edge.



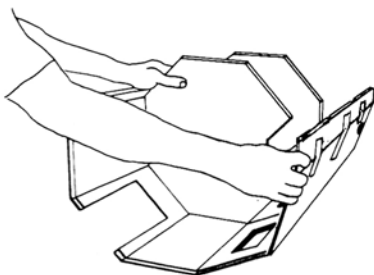
2. Turn the wall set over (two people are much better at evenly supporting all the parts so the tape stays stuck). Spread glue in all the grooves (both the “V-grooves” between the wall panels and in the grooves for the floors).



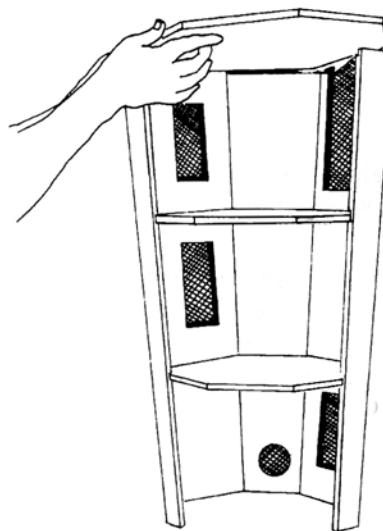
3. Set the 3rd Floor in the 3rd floor groove of the entryway panel. **Note the position and orientation of the stair hole above the door.** Begin to wrap the walls around the floor.



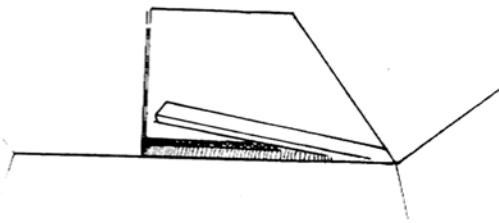
4. Set the 2nd Floor in the 2nd floor's groove. **Note the position and orientation of the stair hole.**



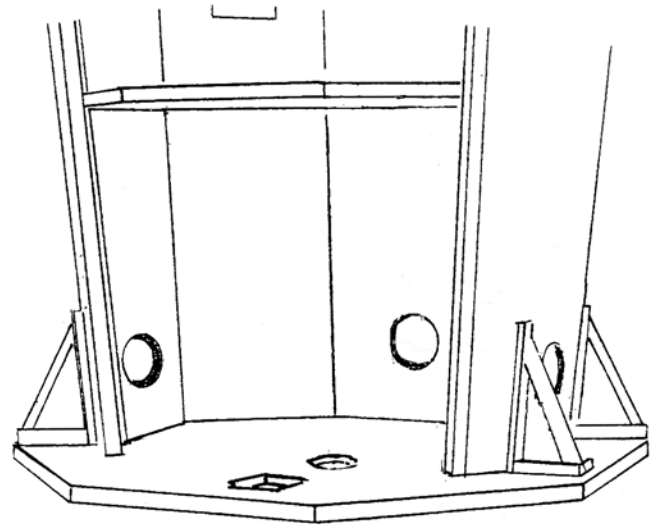
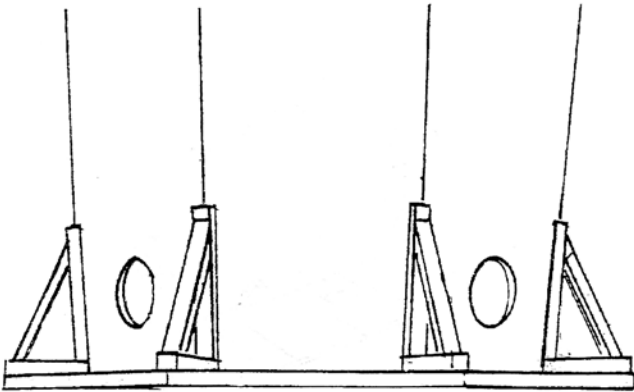
5. Finish wrapping the walls around the floors. Tape the walls to the floors and all the way across the back to hold them tight.



6. Set the Base Floor in place. Tape the walls firmly to the Base Floor.



7. Glue the Groove-Fills into the grooves left exposed in the stair holes to leave a smooth interior wall.



8. Center the wall-set upside-down on the Gallery Deck. Center side to side. The relief cut for the center hole is down of the workbench. Use the pre-assembled Gallery support Brackets to center.

9. Glue the walls to the Gallery Deck, **do not glue** the Gallery Support Brackets.

**Foundation:**

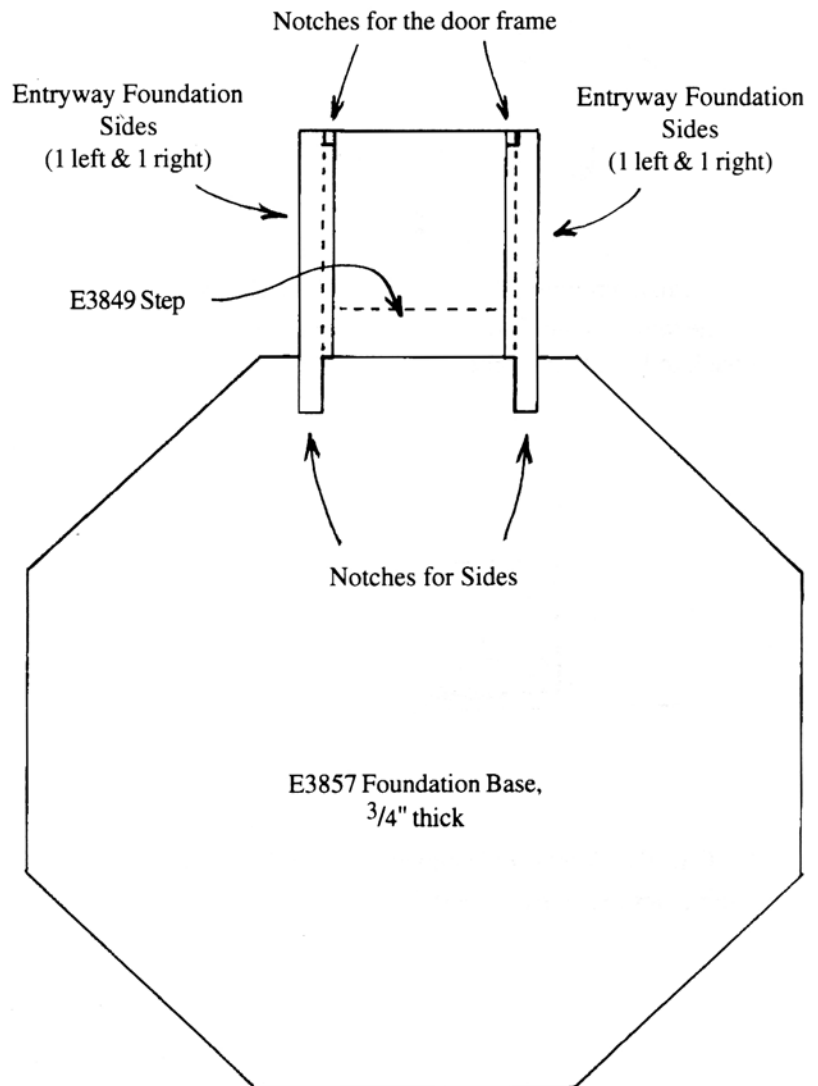
1. Set the right and left Entryway Foundation Sides into the notches of the Foundation Base as shown.

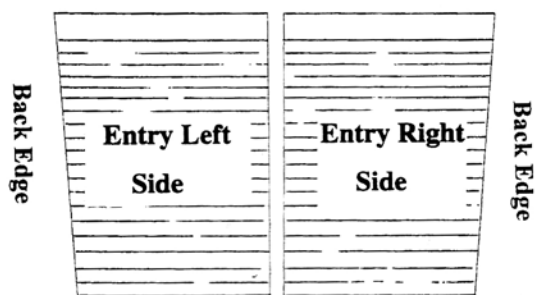
**Do not glue at this time.** Note that each Side has a 1/8" x 1/8" notch that goes at the front, facing each other. These notches accept the door frame. The 5/8" rear notch fits into the Foundation Base and the 1/4" groove accepts the Floor.

2. Without glue, set the Entry Floor between the Foundation Sides in the grooves, flush at the front.

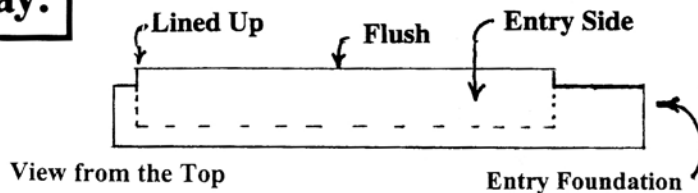
3. The Step goes on top of the Entry Floor against the Foundation Base (note the dotted line on the illustration).

4. **Do not get any glue on the entryway foundation parts.**

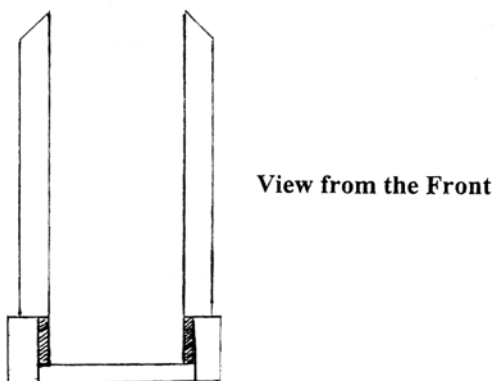




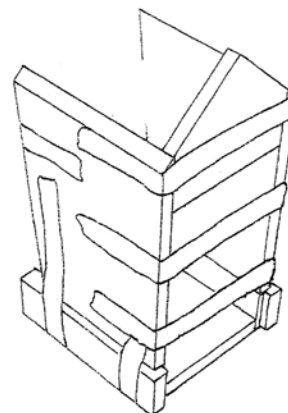
**Entryway:**



1. Inspect the Entry Sides. Identify the square edge (the front edge) and the edge that angles out toward the top (the back edge).

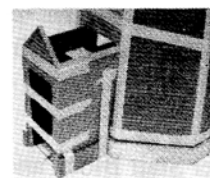
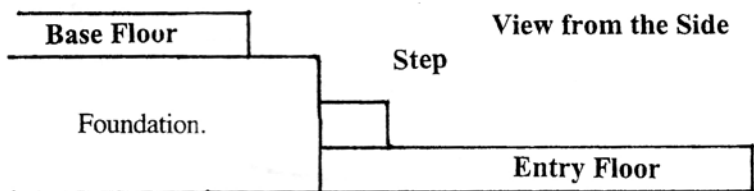


2. Glue and tape each Entryway Side to a Foundation Side, flush on the inside (flush means "forming a smooth, continuous surface"), and the front edge of the wall (the square edge) flush with the front edge (the 1/8" x 1/8" notch) in the Side Foundation.



3. Glue and tape the Entryway Floor to the Entry Foundations with the front edge of the Floor lined up with the Front Edge of the Side Foundation.

4. Glue and tape the Entry Front between the Entry Sides, lined up at the top. The Sides overlap the Front and the beveled top edges of the Sides are flush with the angled top edges of the Front.

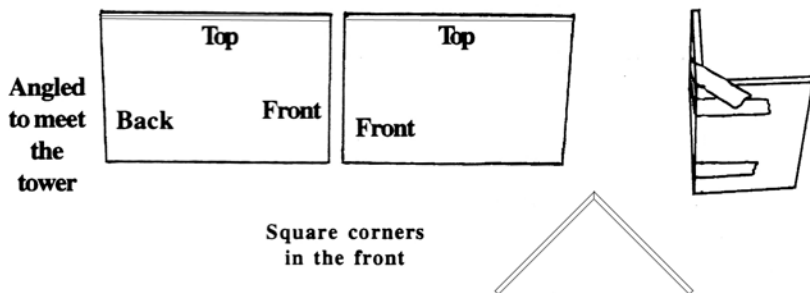


5. Glue the Entryway set to the Foundation.

6. Glue and tape the Step to the Entry Floor and Foundation.

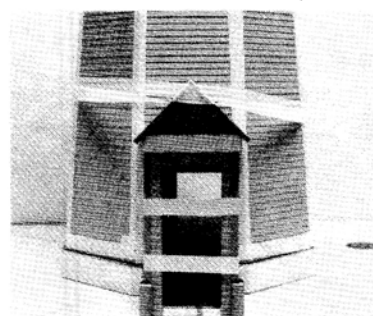
7. Glue and tape the tower to the foundation and entryway, lined up on the inside with the cutout, and evenly spaced around the outsides 1/8" outside the walls and 3/8" outside the open part of the back.

Square corners in the front



8. Identify the top (beveled) and front (square) edges of the Entryway Roofs. The back edges are angled slightly, so look carefully!

Glue and tape together the Entryway Roofs

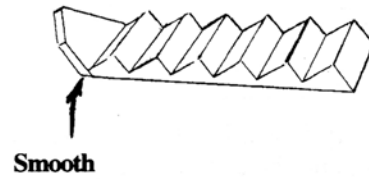


9. Glue and tape the Entryway Roofs to the Entryway and tower. Use lots of tape for a good fit.

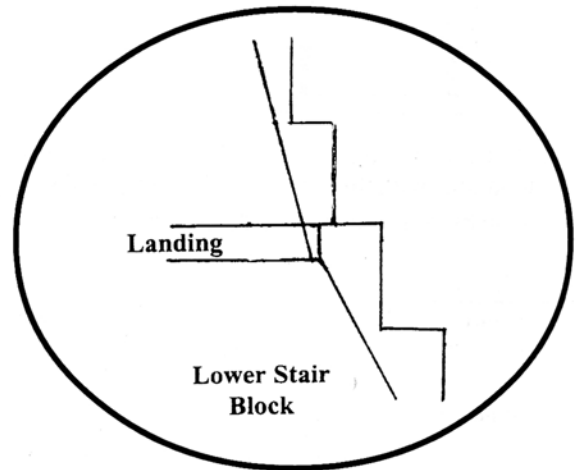
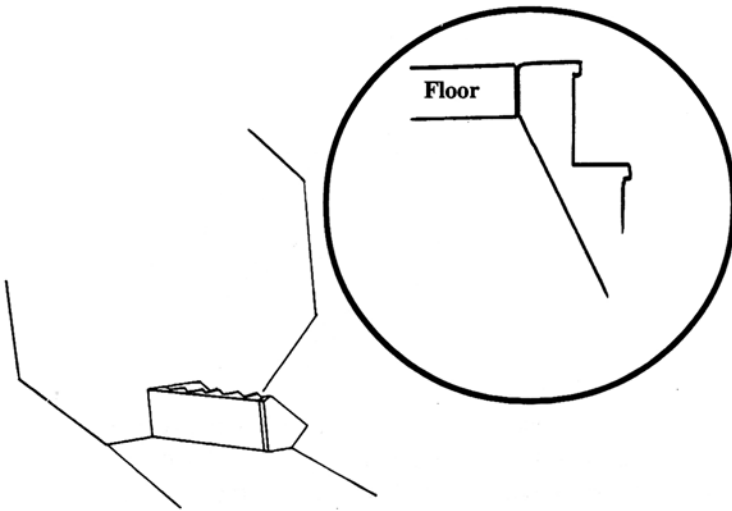
**Stairs:**



1. Glue the Stair Landing to the bottom edge of a Stair Block. Hold the Landing tight and lined up on the wall edge (closer to you in this picture) while the glue sets.



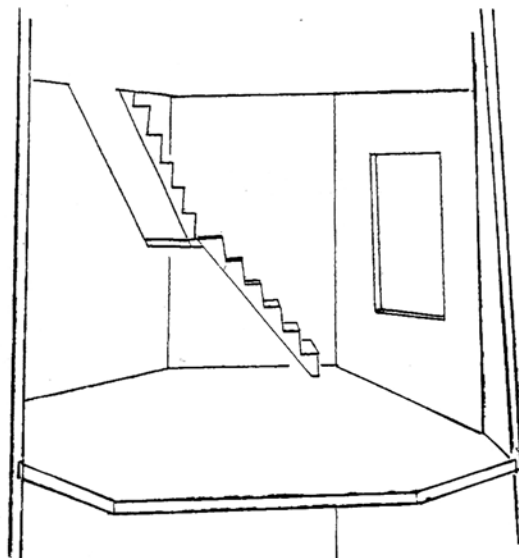
2. Lay a piece of sandpaper flat on the work surface and sand the back of the Stair/Landing smooth.



*Note: The Base Floor has been removed to make it easier to see how the Landing fits into the corner of the walls.*

3. Glue the upper Stair Block and Landing to the wall and floor, flush to the top of the next higher floor and lined up in the corner.

4. Glue the lower Stair Block to the Landing, to the wall, and to the next floor down.

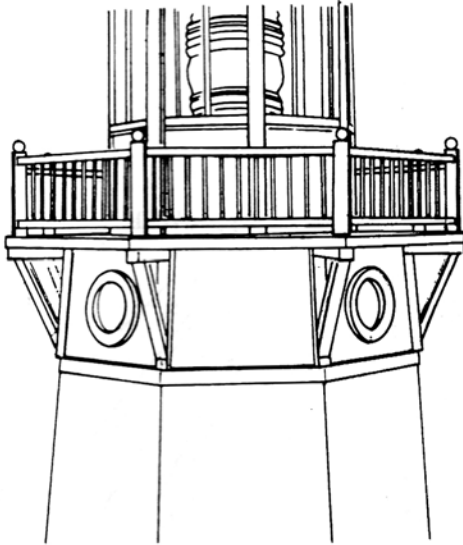




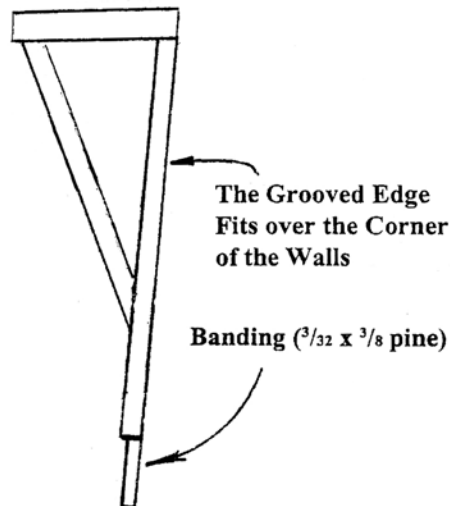
## Gallery Support Brackets & Trim

*This Special Edition kit includes assembled Gallery Support Brackets!*

- 1. If the Gallery Support Brackets have not been painted, do so now. Then glue and tape in place.
- 2. Turn the Lighthouse body upside down. Glue on the Gallery Support Brackets.
- 3. Cut, paint and glue the Banding trim ( $\frac{3}{32}$ " x  $\frac{3}{8}$ " stripwood) to the tower touching the Gallery Support Brackets as shown.



**Note:** These illustrations include steps that have not yet been completed.



# Beacon Housing:

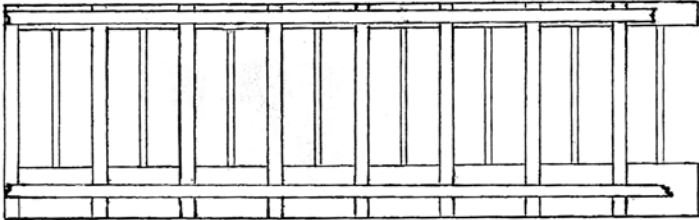
Read "things to check" before you start, and again as you finish. Paint the Lower & Upper Beacon Walls, Beacon Mullions and Beacon Connectors before assembly; do not paint the edges of the Walls to be glued.

**Things to Check:**

- A. All the joints are tight.
- B. The Walls are pushed to the ends of the Connectors.
- C. The Walls are pushed to the outside of the Connectors ... check to be sure the glass Lens can go in and come out of the Beacon Housing.

Connectors

Upper Walls



Lower Walls

Mullions

1. Tape together the Beacon Housing Walls, the Mullions and the Connectors as shown, carefully lined up at the bottom and top. The Mullions **do not** fill the groove all the way from edge to edge (these grooves do not show in the finished product).

2. Turn the Beacon Housing set over and spread glue in the "V" where the Walls will touch the Connectors.



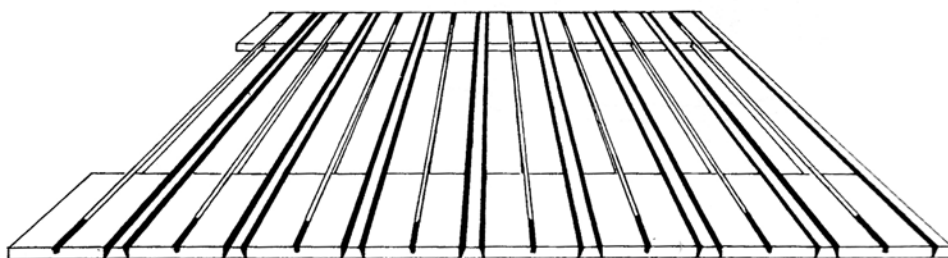
One Wall set from the outside



One Wall set from the inside

Connectors

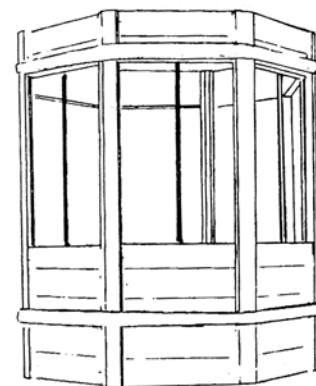
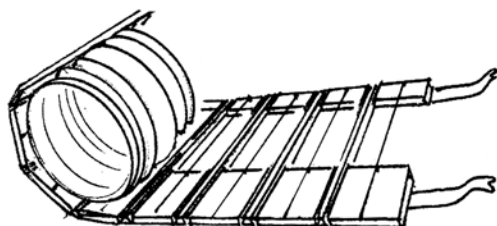
Upper Walls



Mullions

Lower Walls

Grooves for Mullions



3. Set the glass Lens on the Beacon Housing set. Roll up the Beacon Housing set using the Lens as a guide. Glue and tape the end Wall and Connector.

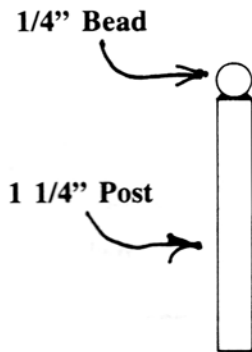
4. Locate the Beacon Housing in the center of the Gallery Deck, with the walls parallel to the walls of the lighthouse. Glue the Beacon Housing to the Gallery Deck.

# Railings / Posts :

*This Special Edition kit includes assembled Railings!*

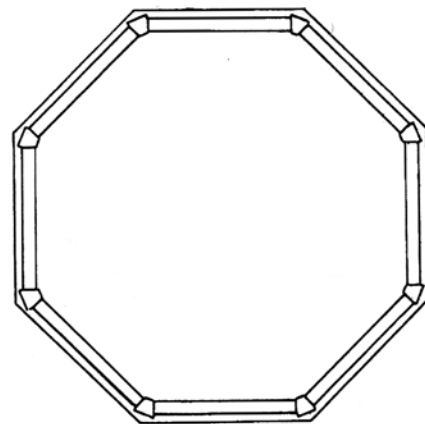
If any of the glue joints of the assembled components included in this kit have been jarred loose during shipping, they can easily be re-glued using white glue. After applying glue to any component, clean up any drippings and set aside to dry, taking extra care to make sure the parts are setting square while the glue dries.

- 1. Assembled Rails: If they have not been painted yet, do so now. Sand with 320 grit sandpaper between coats. Be careful to clean up any dripping paint.



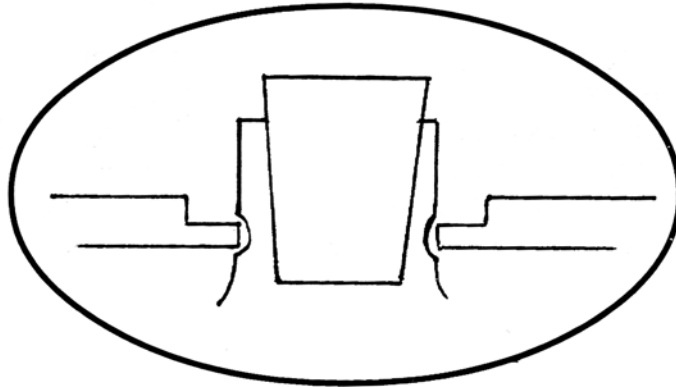
- 2. Assemble the (8) Post/Bead sets.

**Top View of Posts & Rails**

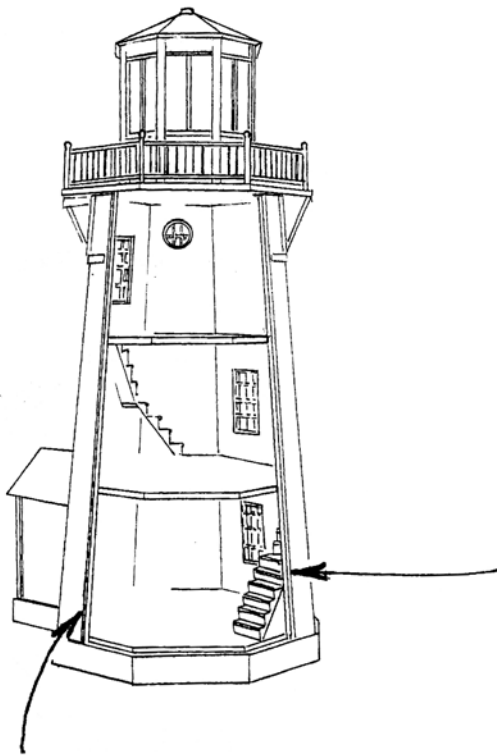


- 3. Without glue set up the rails and posts as shown. Remove the Rails and Posts one section at a time, then glue back in place. Keep the Rails and Posts straight and positioned as the glue dries.

**Beacon Stand:**

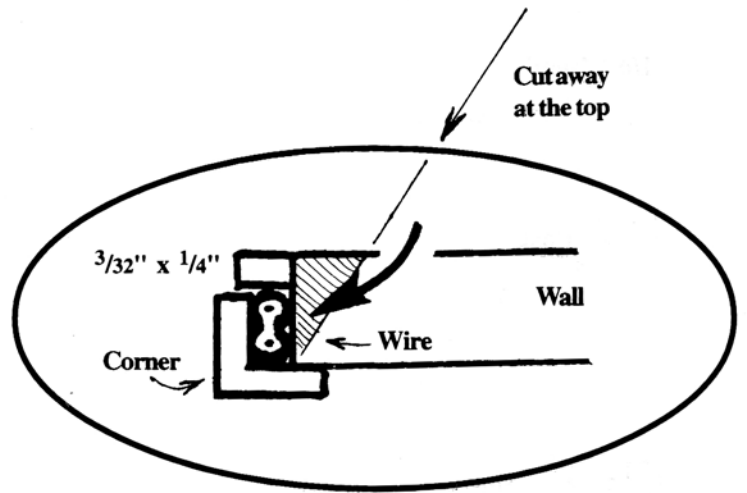


☐ 1. The Light Socket has springy clips with slots that grab the Lamp Deck.



**Wire Cap Corner Only  
Dresses this Edge**

☐ 2. Tape the Wire to the edge of the back wall lined up with the outside surface, and untwisted from top to bottom.

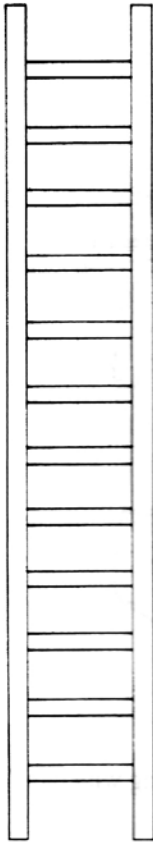


**Trim away the inside edge at the top to give clearance for the wire to make the corner from the wall to the ceiling.**

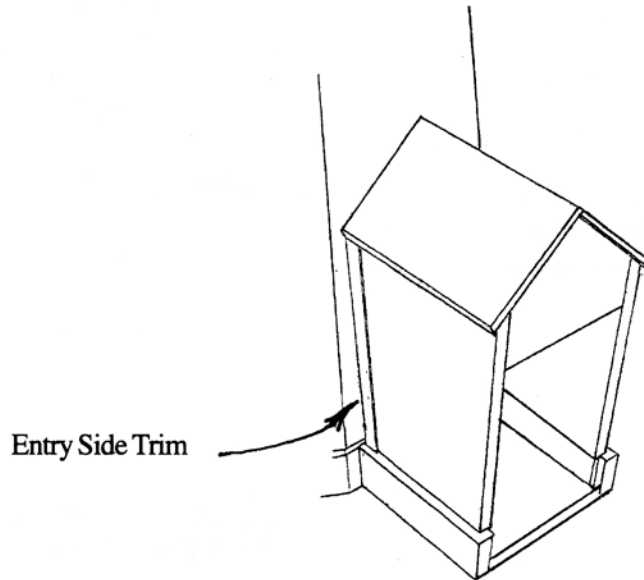
☐ 3. Cut and glue the Wire Cap over the Wire, with the corner trim on the outside, and with the  $\frac{3}{32}$ " x  $\frac{1}{4}$ " Trim cut-to-fit between the floors.

Our assembly pro likes silicone glue, using enough to glue the whole wire in place along with the corner, but white glue and tape does the trick too. Just be sure the Wire Cap is taped tight to the Wire all the way.





4. *This Special Edition kit includes an assembled Ladder!*



5. Paint and glue the pre-cut #E3872 Entry Side Trim in place.

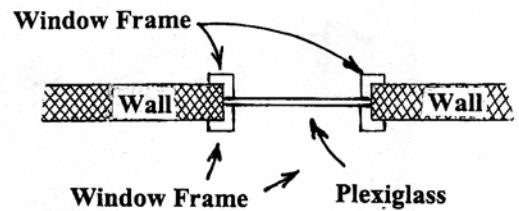
6. Square the window holes if necessary and glue in the exterior window frames if the painting of the lighthouse exterior walls and the window frames is complete.

Make sure the window frames are straight as the glue dries.

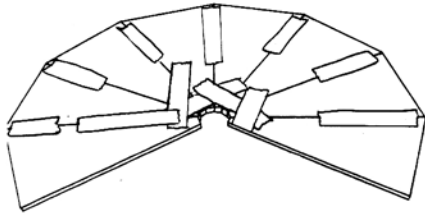
7. Glue the printed window panes to the exterior window frames with dots of silicone glue (be sure to use a very small amount of glue so the glue doesn't get on the viewable part of the window pane).

8. Then wait to permanently install the interior window frames until the interior finish is complete.

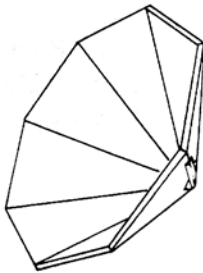
9. Install the Door.



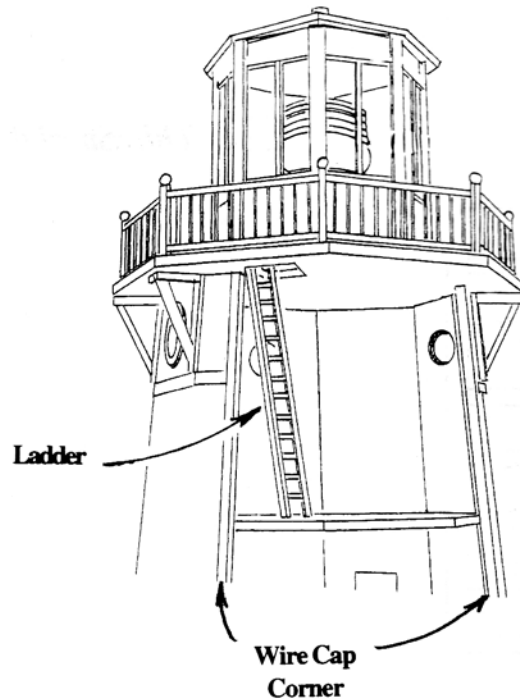
**Roof:**



1. Lay out the Beacon Roof panels, with the V-groove (formed by the edge bevels) on the bottom. Tape the panels together. Turn the panels over and spread glue in the V-Grooves.



2. Fold the Roof into a cone shape and tape together.

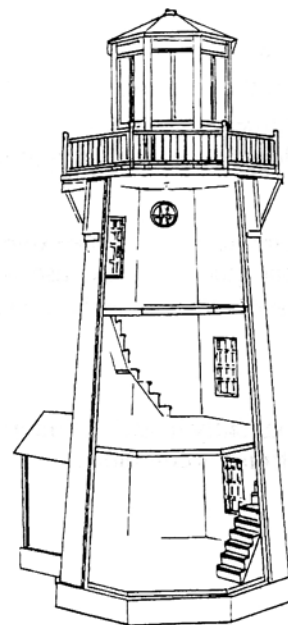


3. Glue the roof to the beacon housing with dabs of silicon glue at the corners.

4. Glue the 1/2" Bead on top of the hole at the peak of the roof.



#H-LH22 Exterior View



#H-LH22 Interior View

**You have finished the Lighthouse part of you project ...  
ENJOY THE REST!**