

# #92022/52022

## “Welcome All” Porch

Available exclusively at [miniatures.com](http://miniatures.com)

Step-by-step assembly instructions

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### SET INCLUDES:

- Base
- Back wall (with window openings)
- End wall (with door opening)
- (2) Long porch base
- (2) Short porch base
- Porch floor
- Roof support triangle, with truss cutouts
- Roof support triangle, solid
- (2) Roof/ceiling supports
- Roof
- (2) Step risers
- (2) Step treads
- Step back connector/support

### SUPPLIES NEEDED:

- Pencil
- Ruler
- Masking or painter's tape
- White glue (#1249 Weldbond)
- Paper towel or soft cloth
- Rubbing alcohol (91% isopropanol)



### GENERAL INSTRUCTIONS

- Identify and inspect all parts using the Parts List and Parts Diagram.
- Read the directions completely before beginning the project.
- If possible, have a dedicated work area so that you are not unpacking, repacking, and moving the project from place to place.
- Choose a work surface that is level, clean, dry, and protected from glue spills.
- Do a dry fit, using masking tape to hold parts in place, to make sure everything fits together correctly before assembling permanently.

## Assembly Instructions

NOTE: Although a dry fit is usually recommended before final assembly, this kit can be glued together as you go, once you have planned and marked the panels as indicated below. The kit assembles with butt joints, which are very fragile until additional parts are attached. Where noted, try to allow at least 24 hours for the glue to fully dry before moving on to the next stage.

This kit is made from 3/16" laser-cut MDF. Laser-cut items benefit from some special preparation before assembly, for best results.

The laser cutting process leaves a layer of soot on the edges of the panels. This needs to be removed before assembly or the glue will not hold. Use a paper towel or soft cloth and rubbing alcohol (isopropanol), with as high a percentage as you can find, usually 91%. Alcohol evaporates quickly, and reduces the chance of moisture-caused swelling. Wipe the edges and openings of all the pieces and set aside to dry.

Also, this material has a very nice, smooth surface that can be marred by masking tape and cause the need for

sanding later. A low-tack tape, such as painter's tape, might be a better choice than masking tape. You can test in an unseen area before assembly.

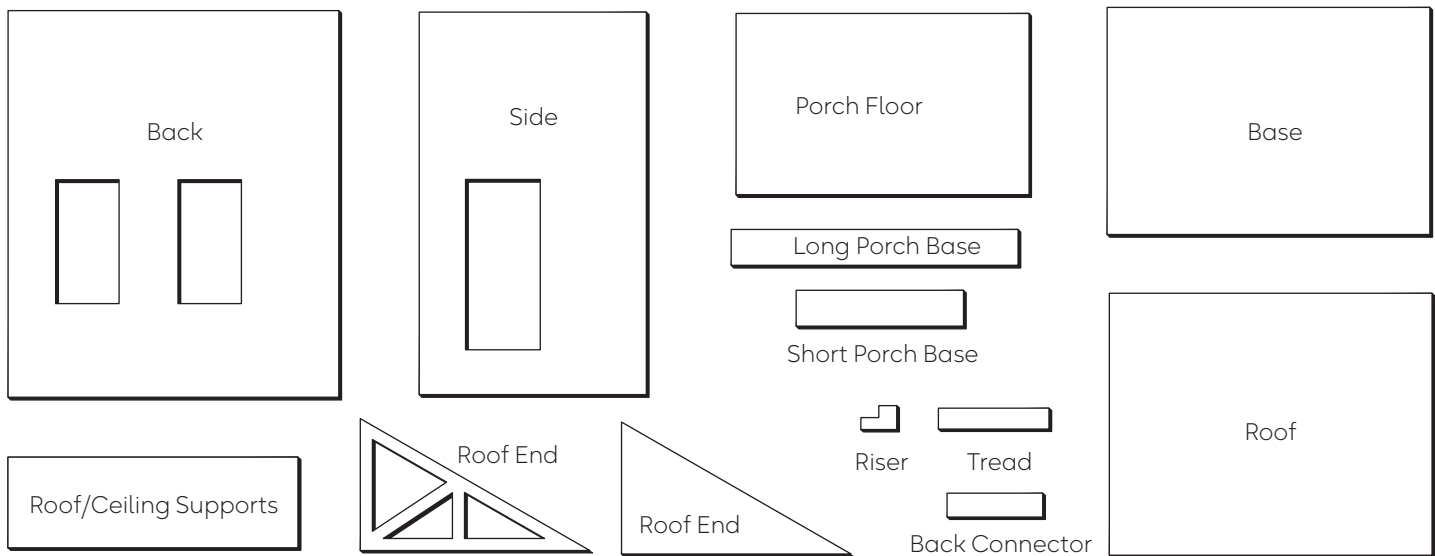
The porch can be assembled with the door at the right or the left end. The instructions are written for assembly to the right; there is a double asterisk (\*\*) at points where you should reverse the direction for that option.

A gluing jig, such as #80304, is helpful for assembling the steps. A stack of books or a few filled water bottles will be helpful to support the walls as you assemble.

Use the drawings to identify the pieces. The openings in the back and side walls should be in the lower position, but the walls can be flipped to place them more to the left or to the right, whichever you prefer.

Once you have decided which way the back wall will go, measure 1/2" down from the top edge and draw a line across.

*(continued on other side)*



### Build the base

Start with the base, the back (window) wall and the end (door) wall. Put tape strips under the base piece, sticking out at the back and right (\*\*), ready to pull up. The back wall is joined to the outside edge of the base, flush at the left (\*\*) end. Put tape pieces on the back of the back wall at the right (\*\*) end, ready to attach to the end wall. The end wall is joined to the outside edge of the base and to the right (\*\*) end of the back wall. Make sure the corner is flush and square.

Use books or other supports at this stage; when gluing, also allow the glue to set before moving on.

Next, put one long porch base piece, on edge, against the back wall, into the corner where the walls meet. Put a short porch base piece against the side wall, below the doorway opening. Put the second short porch base extending forward from the opposite end of the long base piece, and the second long piece in front, covering the ends of both short base pieces. Make sure all the corners are flush and square. When gluing, allow 24 hours for the glue to cure before moving on.

Set the porch floor on top of the base. It should be flush at the door opening. It can be glued now, or left unattached for easier finishing. When gluing, add weights for better contact.

### Build the roof structure

On the inside bottom edge of both triangular roof supports, measure and mark  $3\frac{3}{4}$ " from the back corner. Mark again,  $3\frac{3}{4}$ " closer to the front (point). On the back (short) edge, make marks  $1\frac{1}{2}$ " up from the corner.

Lay a roof/ceiling support flat on the work surface, and the short dimension of the triangle supports on either side. (Make sure they are on the correct sides for your plan.) Prepare tape strips to hold the triangle support upright at the outside edge of the roof/ceiling support. The

bottom edge goes at the  $1\frac{1}{2}$ " mark. Add glue and tape securely; when set and stable, repeat for the other side. Set aside to dry completely.

Carefully, pivot the roof assembly to rest on the bottom edges. Prepare tape, and glue the second roof/ceiling support between the marks you made earlier. Set aside to dry completely.

### Assemble the steps

While glue is drying on the main parts, you can assemble the steps. A gluing jig is very helpful but if you don't have one just go very slowly and allow each glue joint to set very well before moving on.

There are two identical riser pieces, two identical tread pieces, and one back connector/support piece. The longest edge of the riser pieces is the base, or floor, edge.

Put one riser piece in the corner of the gluing jig (or on your work surface), back edge down and floor edge against the fence of the jig (away from you). Put glue on both ends of the back connector, join it to the first riser piece and then attach the second riser. Make sure everything is square and let dry. Once it is stable enough to handle, glue on the treads, evenly centered over the risers and flush at the back. Let dry completely. Because it is tricky to use tape on this small unit, you may want to add lines of glue on the inside/underside as reinforcement after drying.

### Finishing

Lay the base/walls assembly on its back. Set the roof assembly in place, with the top triangle points on the line drawn earlier on the back wall. Glue all contact areas; use clamps and weight wherever possible - in addition to tape - to hold parts while the glue dries completely.

It may be easier to add finishing materials to the roof before installation, but either way is fine. Glue the roof in place once the support structure is completely dry.