



SHOWROOM

3431 Division Hwy, New Holland, PA
1 ½ mi. West of Blue Ball on US 322

(717) 354-0524

(717) 354-0565 fax

I N S T R U C T I O N S H E E T

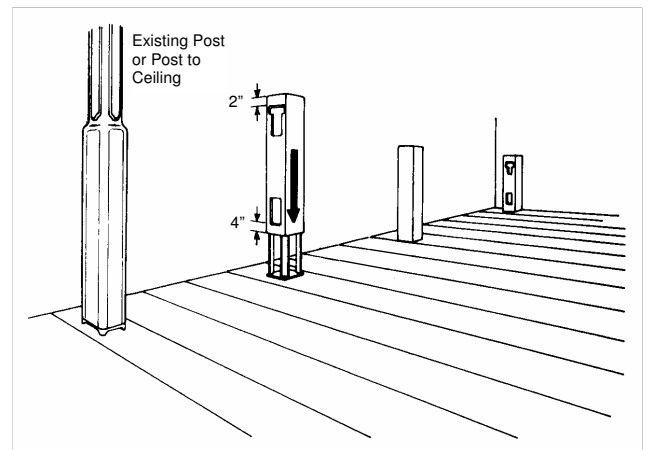
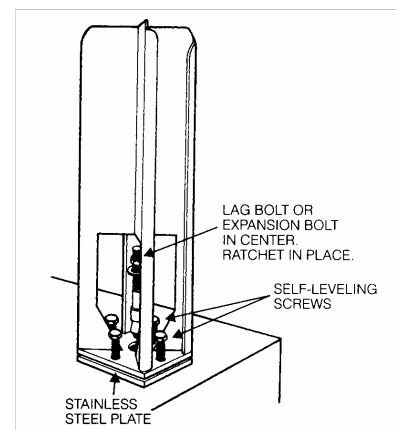
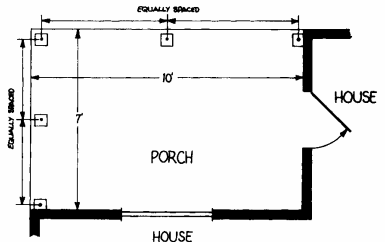
STEP 1 Post Installation

Posts to Ceiling: When cutting a designed post to ceiling to fit, be sure to keep the design on the post at least 2" (preferably 4") above the top of the railing. Detailed installation instructions are included on the porch post box. If using a wood 4x4 inside a post, attach a post foot or vinyl block to the 4x4 and allow it to be hidden inside the vinyl post. Also, make sure the 4x4 is slightly smaller than the vinyl post to avoid any exposed wood. Be sure to keep the post level in both directions as you install.

Short (Newel) Posts: To mount short posts, find the middle of any existing posts and mark on the floor. This is how far in from the edge of the floor the middle of any short posts should be. If no existing posts are installed, we recommend installing your posts so that the outside edge of the post is 2" in from the edge of the floor. Center between existing posts, and drill a 1/2" hole in the center of post location for concrete anchor or wood lag. If using a stainless steel base on a wood floor, special attention must be given so the base will be solid. At least 4" of concrete is recommended for concrete installation. Before inserting concrete anchor, spray the threads of the anchor with a lubricant such as WD40, to avoid seizing as you tighten the nut. Be sure to tighten the nut as much as possible so your post is sturdy. Install the leveling bolts through the top of the base. If your base ever becomes loose, simply pull up the post a little and adjust the leveling bolts—you may not even have to remove your railing.

Half Posts: When installing a half post, the middle of the half post should be as far from the edge of the floor as the middle of any other installed posts. Screw through the bottom routed 2x4 hole into the wall with 1 screw. Level the side of the half post and then use 2 screws inside the routed T-rail hole at the top.

Do not put any post caps on during the post installation. This will be done later to avoid any mistakes.



STEP 2 Railing Installation

Mounting Brackets: On any posts that are not routed to receive the 2x4 rail and T-rail, mounting brackets must be installed. To mark where the mounting brackets will be, measure from the floor up 4" and make a mark. Then for 30" railing measure from the floor up to 30", for 36" railing measure up to 36", and for 42" railing measure up 42" and make a mark (this should be 2" down from the top of short posts). Position the mounting bracket so that the 4" mark is at the bottom of the inside of the 2x4 bracket and mark all holes. After they are marked pre-drill all your holes. For ease of installation, a bracket may be mounted on one side of each railing section. Then position the T-rail bracket so the top mark is at the top of the inside of the bracket. Again, mark all the holes and then pre-drill them. For ease of installation, a bracket may be mounted on one side of each railing section.

Railing: Install the bottom 2x4 rail first. Slide any needed mounting brackets on the rails and then screw in place. If one end goes into a routed hole, be sure to insert that end first. After the 2x4 rail is in place, insert all the spokes. When



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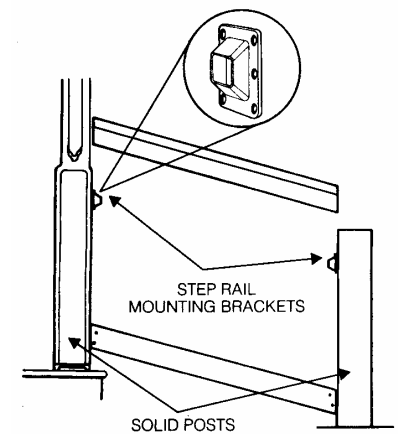
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all spokes are in place, slide any needed mounting brackets on the T-rail and put in place over the spokes. All the 2x4 rails and T-rails are marked with exact measurements—make sure you put the right T-rail with the corresponding 2x4!

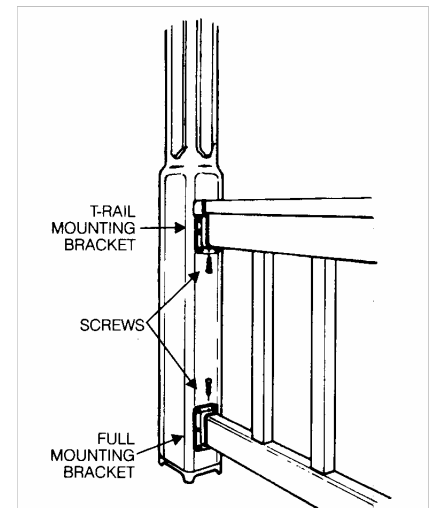
Step Railing: Special attention must be given to step section railing. Slide the step rail mounting bracket into the top end of the bottom 2x4 rail. Position against the post at the top of the steps so that the 2x4 rail lines up with any other installed railing or so that the bottom of the rail at the top post is 4" from the floor (at the bottom post the measurement will probably be 3"+/- more—do not measure at the bottom post). Pre-drill the holes for the mounting bracket (at the top post and bottom post) and screw in place. Toe screw through the railing, into the bracket, and into the post with a 2" screw. Use a screw on the outside and inside (2 screws per bracket). After the 2x4 is in place, insert all the spokes—if you were supplied with some spokes that are shorter than the rest, please use them in the step sections. Then insert the step rail mounting brackets on the T-rail and slide in place over the spokes. Make sure the T-rail lines up with any other installed railing or that the top of the T-rail is 30"/36"/42" above the floor at the top post. Screw in place as you did for the 2x4 rail.



STEP 3 Finishing Up

Center Railing: After all the railing is installed, every section should be checked to be sure that the railing is centered between the posts. To do this, measure from the post to the outside of the first spoke right under the T-rail. Then, on the same side of the railing, measure from the post to the outside of the spoke right above the 2x4. This measurement should be very close or the same. Then, on the other end of that section of railing, do the same procedure. If the distance from the post to the spokes is much greater on the one side of the section than the other, try to move the whole section to the one side. This will ensure that your railing looks best when you are finished.

Install Final Screws and Caps: After everything is centered, at each mounting bracket an additional screw should be installed. This will keep the rail from moving after you're done. In the side of each mounting bracket, or in the bottom of the T-rail and top of the 2x4 brackets, pre-drill a hole and use a 1" screw. Where a rail goes inside a routed hole, on the top use a 1" screw right up against the inside of the post. If the rail goes into a routed post on both sides, a screw should be put in through the post into the rail on the bottom 2x4 rail. Also, a screw should be used underneath the T-rail right up against the post on each side of the section. This will ensure that the railing cannot move either direction. Finally, glue on the post caps with PVC cement.



You're done!

