

Liberty Series

(Style S10)

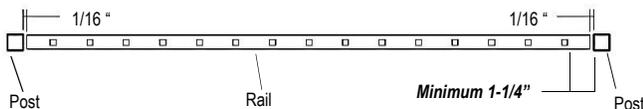
Installation Instructions



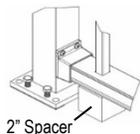
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Standard (Level) Railing

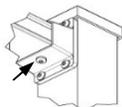
- Measure to cut the rails to length by holding rails against posts. Position rails so there will be the same baluster spacing on each end of the rails if possible. Mark rails where they are to be cut. NOTE: Make sure rail is cut $1/16$ " shorter on each end to prevent rails from scratching posts. Cut rails.



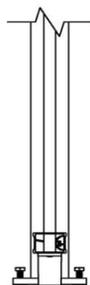
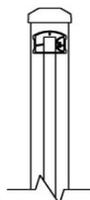
- Lay bottom rail on flat clean surface and using a rubber mallet lightly tap balusters into routed holes of bottom rail making sure balusters are seated all the way into the rail. Hold top rail at an angle above the balusters. Starting at one end, feed first baluster into routed hole, tap lightly to partially seat them in the rail. Continue to feed remaining balusters into rail. When all balusters have been partially seated in top rail, go back and tap along the full length of the top rail making sure all balusters are seated against the top rib.
- Center and fasten Railing Support on bottom side of bottom rail with self-tapping screws (provided).
- Slide top and bottom mounts onto end of rails. Position bottom rail so there is no more than 2" clearance. A 2" spacer may be placed under bottom rail to reach the 2" clearance.



- Keeping mounts centered on post, fasten mount to post with pan head self-tapping screws (provided).
- Secure section to top rail mounts with self-tapping screws (provided) through hole in bottom of top rail mounts.



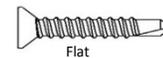
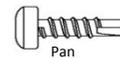
- Attach 2-piece flairs to all posts.
 - Separate 2 piece flair.
 - Slide u-shaped flair around bottom of post.
 - Using rubber mallet to tap flair together.



End View of Rails with Inserts

Angle (Swivel) Mount

- Position bottom swivel mount base so the bottom of the rail has no more than a 2" clearance. NOTE: A $1\frac{1}{8}$ " spacer may be placed on the welded $\frac{3}{8}$ " plate of the post to reach the 2" clearance, and a $1\frac{1}{4}$ " spacer for $\frac{1}{2}$ " plate on post.
 - Measure up $32\frac{5}{8}$ " (for 36" tall railing) or $38\frac{5}{8}$ " (for 42" tall railing) from top of bottom mount to top of top mount.
- Keep base of mount centered and pin hole turned down fasten base to post with pan head self-tapping screws (provided).
- Angle the swivel mount after it is installed on post. Measure from back of cup to back of cup at other end to determine rail length. Cut rails.
- Follow step 2 and step 3 in Standard (Level) Railing section for assembly of section.



- Place assembled section into swivel mounts. Attach top and bottom rails to mounts with flat head self-tapping screws (provided) on both sides of rail.

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Stair Railing

Important: Rails have to be positioned in the correct direction prior to cutting. If rails are not in the correct position they may be cut incorrectly and balusters will not line up.

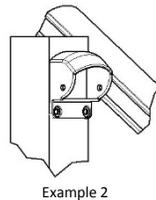
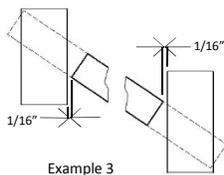
- Identify top and bottom stair rails.

- Cut balusters at angle of stairs on both ends. (Overall length of baluster will not change.)

- Lay bottom rail beside posts with approximately 1" clearance (use 1" spacer) between the rail and nose of step. Insert a baluster into the last hole on each end. Place top rail on these balusters.



- Clamp rails to post (Example 1). Mark rails for cutting. Mark posts for each mount position (Example 2). Cut rails 1/16" shorter than mark on each end. Rails should be cut using a straight cut (Example 3).



- Lay bottom rail on clean surface insert balusters into bottom rail. Seat completely into bottom rail by tapping with rubber mallet.

- Hold top rail at an angle above balusters. Starting at one end, feed first baluster into routed hole, tap lightly to partially seat them in the rail. Continue to feed remaining balusters into rail. When all balusters have been partially seated in top rail, go back and tap along the full length of the top rail making sure all balusters are seated against the top rib.

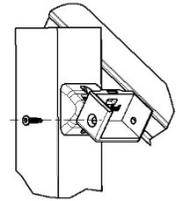
- Slide top and bottom mounts onto end of rails. Fasten mounts to post with pan head screws (provided). Fasten rails to mounts through each side with pan head screws (provided).

- Attach 2-piece flairs to all posts. See step 7 on Standard (Level) Railing.

Swivel Stair Mount

- Identify top and bottom rails, top swivel mount and bottom swivel mount.

- Lay bottom rail (with approximately 1" clearance from the nose of the steps) beside the posts. Determine where the end holes will be on each end and place a baluster in those holes. Place top rail on these balusters. Holding rails against posts, determine end spacing making sure end spacing is even between post and balusters. Clamp rails to post (Example 1). Hold swivel stair mounts up against posts and beside the rail to determine where rails are to be cut to fit inside the swivel stair mounts. Mark posts for each stair swivel mount position (Example 4). NOTE: This will vary depending on angle of stairs. Cut rails. Cut top rail at same length as bottom rail.



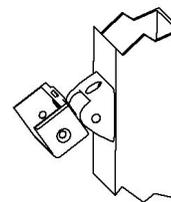
- Attach bottom swivel mount base so the bottom rail has approximately 1" clearance from the nose of the step. NOTE: A 1" spacer may be placed on the nose of the step to reach the 1" clearance. Fasten base to post with pan head self-tapping screws (provided).

- Attach top swivel mount base to post using pan head self-tapping screws (provided).

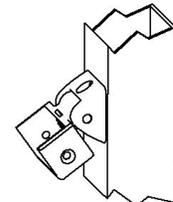
- Follow Stair Railing steps 5-6 for assembly of section.

- Attach top rail and bottom rails to mounts using flat head self-tapping screws (provided) on each side of rail.

- Attach 2-piece flairs to all posts. See step 7 on Standard (Level) Railing.



Top Stair Swivel Mount



Bottom Stair Swivel Mount