T-Bird Vinyl & “B” Series Railing
Installation Instructions

NOTE: These instructions must be followed exactly as written and the material used must be exactly as shown in the instructions. Any deviation from the instructions or variation in the material used/installated may result in an unsuccessful installation.

Post Applications

Aluminum Post Mount for Concrete & Wood Applications:
If using a Standard Aluminum Post Mount (Residential) or Heavy-Duty Aluminum Post Mount (Commercial), see the instructions included with your mount.

4” x 4” Wood Support Posts:
Note: A 4” x 4” Vinyl Post does not have any structural strength to support weight bearing roofs.

A 4” x 4” wood treated post (which measures 3½” x 3½”) will slide inside the vinyl post to support the weight. Most of the time, your posts are installed after the roof is in place. Usually, there is a beam the post can be attached to. Following are steps needed to install this post system. We do realize you can run into many different situations at the job site. In those cases, field modifications may be needed.

Step 1:
Cut vinyl post and wood post to size. To determine wood post length, stack (2) top/bottom support posts. Slide vinyl post to go to the bottom of the joist support board. This will ensure no weight bearing on the vinyl post. Note: On wood, make sure there is structural strength to support the weight of the roof.

Step 2:
All material will need to be applied to the post before installation. Slide post flairs over top and bottom of post. Slide wood post inside vinyl post. Insert a post support mount on each end. The post support mount can be screwed to the wood post if desired (screws not included).

Step 3:
Slide post assembly into position. Insert (4) screws into each mount (screws not provided). Slide post flairs into position. Tabs will snap-lock into post support mounts. Flairs may be glued if desired (glue not included).

WARNING: Excessive glue may run down post. Hold top flair in place until glue is cured.

4” x 4” Wood Support Posts - For Decks
Note: The strongest and least expensive way to apply a 4” x 4” vinyl post to a deck is to EXTEND your wood 4” x 4”’s above the deck approximately 24”.

Following are steps to use when building a frame deck or working with an existing wood structure.

Step 1:
When building a new deck and using 4” x 4” wood posts to support the wood structure, layout your post setting so it works out for both wood frame structure and length of railing sections you plan to install.

Step 2:
Set all wood posts leaving approximately 24” of the post(s) above determined height of floor or deck surface. NOTE: 24” of wood post is sufficient support for 36” or 42” vinyl railing systems. The higher the wood post is above the floor, the greater the chance for the wood post to warp.

If vinyl posts are desired below the floor joint, slide these posts on before the support board is attached. NOTE: These vinyl posts will go from the ground to the bottom of the joist support board.

Step 3:
After wood frame and deck flooring are installed, slide vinyl post over wood post. Slide post flair on at this time.

Option: Vinyl Posts on Existing Deck
When vinyl posts are to be attached to an existing wood deck and no wood posts are protruding above the deck floor, use an aluminum post mount (see instructions for wood surface) or install a 4” x 4” wood post as follows:

Step 1:
Cut a 4” x 4” hole in existing floor right inside joist support board. Install a wood 4” x 4” post to go to the bottom of the joist support board. This will extend above the deck floor approximately 24”. Attach wood post with screws or bolts through support board and into wood post. After deck flooring is installed, slide vinyl post and flair over wood post.

Level Railing Applications

Step 1:
Hold each rail against posts. Position so there will be the same spindle spacing on each end of the rail. Mark top and bottom rails where they need to be cut. Cut rails to length. NOTE: Make sure rails are cut with a 1/16” gap on each end between rails and posts.

Step 2:
If installing an 8’ or longer section of railing, a railing support is required. It needs to be attached to the bottom rail at this time to assure the section will not sag.

For the railing support:

Vinyl: Find center of bottom rail. Screw #10 Wood block to bottom side of rail. Slide vinyl extrusion over plastic wood block and screw to block with (2) screws (refer to drawing). All screws are provided for the railing support.

Aluminum: Find center of bottom rail. Insert screw into aluminum support and screw to bottom rail. Turn support to adjust height.

Step 3:

4” x 4” Vinyl Post
Top/Bottom Post Mount
4” x 4” Wood Post
4” x 4” Wood Support Post
Vinyl post over 4” x 4” wood support post to provide structural strength

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Aluminum: Find center of bottom rail. Insert screw into aluminum support and screw to bottom rail. Turn support to adjust height.

Step 3:

Slide a mount over each end of the rail (make sure profile side of mount is down). Place bottom rail into position. NOTE: Leg of Aluminum F-Channel needs to be facing inward. Standard gap from floor is 2”.

Center and screw mounts to post with (4) 1¼” screws (screws provided). Insert (2) ¾” self-tapping screws through location tabs (screws provided). Note: If using 4” IRC or IBC post mounts use 1¼” screws, provided in the post mount box.

Insert vertical spindles into bottom rail holes. Position top rail into spindles one at a time.
Level Railing Applications...Continued

Position top rail between posts and fasten top mounts to post with screws (like bottom mount procedure).

If using standard height posts, top rail should be 2" down (2¾" down if using an aluminum post mount) from top of post. Should a special height railing be required, the spindles and post may be cut down.

Place mount covers over mounts. Tap each corner of cover to secure it to mount. CAUTION: For mount cover, line up top two corners of cover and LIGHTLY TAP the corners with a hammer. Then, carefully line up bottom of cover and LIGHTLY TAP with a hammer.

The top to bottom measurement should be the same for both the stair rail and the level rail sections.

Angle Applications

NOTE: Make sure to review the level application installation before these steps are attempted. Angle mounts are needed for level application. These mounts can It can be cut to accept UP TO a 22½° angle. For greater degree angles, the post must be rotated, so both post and mount will equal the total degree of angle. (i.e.: Post 22½° + mount 22½° = total 45° angle).

Step 1:
Cut rails to correct length, angle to fit in between mounts. Make sure it is cut to be the same spindle spacing at each end of the rails. NOTE: Attach mounts to rail...BEFORE attaching to post.

Step 2:
Bottom Mount...
Place mounts on rail. Insert (1) ¾” self-tapping screw through location tab (screws provided). This screw will go through both the vinyl and aluminum. Position rail. NOTE: Leg of Aluminum P-Channel needs to be facing inward. Center and screw mounts to post with (4) 1¼” screws (screws provided). Screw (1) ¾” screw through location tabs on the top of the mount.

Top Mount...
Use same procedure as bottom mount except, pre-drill pilot hole on top of mount and rail.

Side wall of mount may need to be cut out to accept the top portion of the top rail, depending on the angle. (See example.)

Place mount covers over mounts. Tap each corner of cover to secure it to mount.

45° Angle Applications

Step 1:
Place a bottom 45° Block on the corners of the posts. Cut bottom rail to fit between blocks. Refer to Level Railing, Step 1. Top rail will be same size as bottom rail if post is level. (Both rails will be a square cut.)

Step 2:
Refer to Level Railing Applications to install sections. NOTE: Pilot holes are required in post. For bottom mounts, drill completely through mounts to indicate where pilot holes will be.