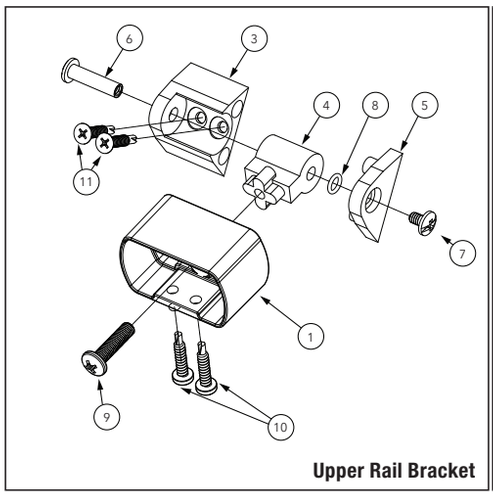
ANGLE ADAPTER BRACKET INSTRUCTIONS

Parts included

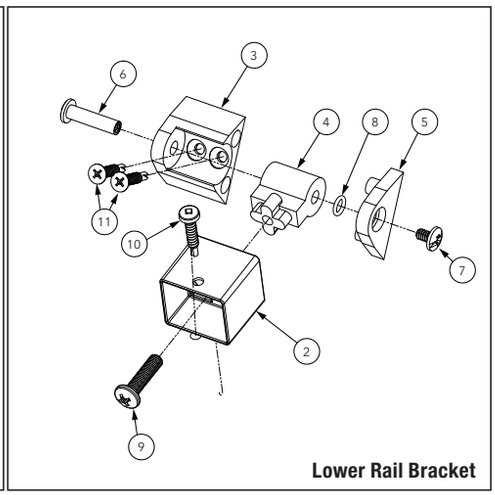
Bracket Components

- **(1)** Upper Bracket Rail Cup
- **(2)** Lower Bracket Rail Cup
- **(3)** Base
- **(4)** Rotator
- **(5)** Side Cover
- **(6)** Barrel Bolt
- **(7)** Barrel Screw
- **(8)** Rubber O-Ring
- **(9)** 3/4 x 1" Pan Head Machine Screw
- **(10)** #10 x 1" Self-Drilling Pan Head Screw
- **(11)** #10 x 1" Self-Drilling Flat Head Screw

(Posts and stair rail kits sold separately)



Upper Rail Bracket



Lower Rail Bracket

Prior to construction:

- Ensure post location is compatible with railing, prior to securing to the deck, place both posts in position, and lay the bottom rail along the stair nosing from top to bottom adjacent to both posts. On the rail side of the post, measure up from the top of the rail and ensure there is a minimum of 34” (for 36” railing) or 40” (for 42” railing) to the top of the post. Post location may need to be adjusted to ensure minimum is obtained. Repeat this step for the bottom post. Note: when installed, the rail must not allow a 6 inch sphere to be passed between the tread, riser, and rail as depicted in fig. 8.
- Position the post so the fasteners will go through the decking and into the joists and/or blocking. Proper structural blocking/framing under the decking material is required when attaching the post to a frame because decking alone is not approved as structural framing.

Stair Railing Installation

Step 1: Refer to the Installation instructions included with your posts and notes below to mount your posts to the deck.

a) Begin by determining where the top and bottom post will be located. Mark the desired location of the post.

b) Four 3/8" diameter mounting holes are provided on the base. When final position is determined, mark hole locations and remove the post assembly. Drill the marked locations through decking and into at least 3” of solid structural blocking.

c) Reposition the post assembly with the leveling plate inserted between the deck and the post base and aligned with the predrilled holes. Insert the post fasteners (NOT INCLUDED), and partially tighten. Using a level, adjust the leveling set screws with a 3/16" allen wrench until the post is plumb. Fully tighten the post fasteners to secure the base to the deck structure.

STOP – Make sure post base trim is installed before continuing.

Step 2: Measure the distance between installed posts (parallel to the stair angle) to determine the length of the top and bottom rails. Position the railing on the stairs on top of a spacer block along the stair’s nosing. Ensure the balusters are plumb. The distance between the post and the first baluster should be less than 4" and equal on both ends. Once the railing is in position, clamp the railing to the posts. **(See fig. 8 & 9)**

Step 3: Temporarily assemble the swivel brackets apart from the rails using parts 1-9 (see parts included). Do not yet fully tighten the screws.

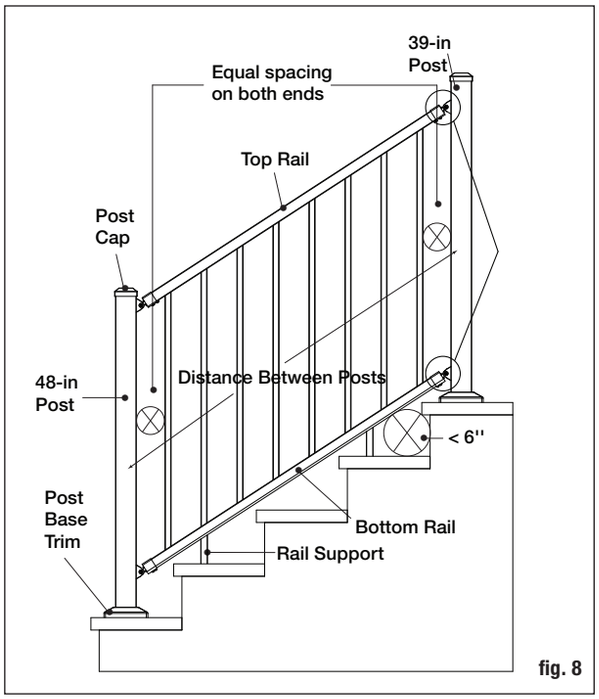


fig. 8

Step 4: Position the swivel bracket in location along the clamped rail. Mark the rail at the end of the bracket, add 3/4" and make a second mark for cutting. Mark the post along the top or bottom of the bracket base **(fig. 9)**. Repeat for the other bracket and post locations. Cut the top and bottom rails to length using a miter or circular saw with carbide tipped blade. ***Note: The distance from the end of the top rail to the first stair baluster will be longer than the bottom rail to ensure the balusters are plumb.***

Step 5: Separate the bracket bases (3) and side covers (5) from the bracket assembly. Position the front end of brackets (1 & 2) to rails and mark the locations of the screw holes on the rails. Predrill through the rail only, using a 1/8" drill bit. Secure the rail cups to the rails using the #10 x 1" Pan Head Screws (10) provided.

Step 6: Holding the bracket bases on the posts at the previously marked locations, transfer the location of the bracket base (3) screw holes onto the post. Note: Include the bracket side cover (4) when determining the center location. Predrill through the post, using a 1/8" drill bit. Position the base of each bracket with the bracket cover side facing the stairs, and attach to the post with the (2) - #10 x 1" Self-Drilling Flat Head Screws (11) provided.

Step 7: Drill one 1/4" drain hole through the bottom of the rail to prevent trapping water. Position the hole toward the lower end of the rail, roughly 1-1/2" from rail end to avoid the lower bracket. **(See fig. 10)**.

Step 8: Install the railing between the posts by sliding the bracket components 3 and 4 together on each end. Secure the bracket side cover (5) with the barrel bolt (6) and screw (7). Note: to eliminate bracket movement, position the “O”-Ring (8) onto the barrel screw before securing the bracket side cover.

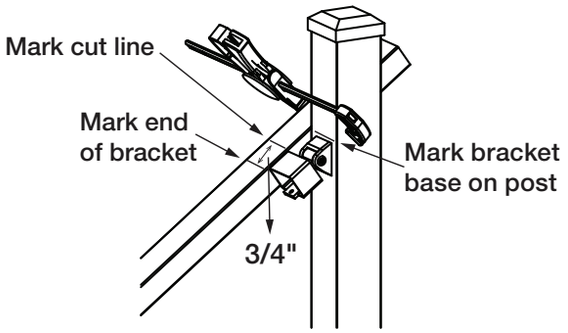


fig. 9

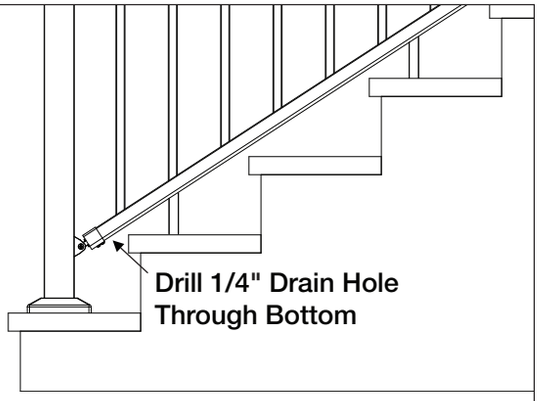


fig. 10

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