

Colonial Railing Installation Instruction Sheet

Determine location of post: The newel post flange is 5" x 5" square. The edge of the post flange should be located a minimum of 1 1/2" from edges of concrete. Place posts in desired location.

Attaching Post to Floor:

- A) Masonary platform - Drill (4) - 1/4" holes at least 2" deep into concrete. Secure using (4) - 1/4" x 2 1/4" wedgebolts. Plumb post with level while tightening.
- B) Wooden platform - Drill 5/32" holes into wood and secure using (4) - 1/4" x 2" stainless steel lag screws.

Note: If wood or masonry surface is uneven, use shims or washers under flange.

Cut Rail To Size:

Straight (Level) Application: Measure the distance between posts or between wall and post. Subtract 1/8" from exact measurement to determine the length of the rail required to fit opening.

Step/Sloped Application: Measure the distance between posts or between wall and post, be sure to measure at the same pitch or slope as the stair or ramp. subtract 3 3/4" (for utility connectors) from exact measurement to determine the length of the rail required to fit opening.

Note: To maintain equal picket spacing cut an equal amount from each end of rail. (Example: To cut 3 3/4" total off - cut 1 7/8" off each end of rail)

Attaching Rail:

Straight (Level) Application: Place straight connectors onto both ends of rail top and bottom. Face the flat part of the connector flange toward the end of the rail. Slide rail with connectors on into the opening. Use a level on the top rail to level the rail section. Attach the connectors to the post with (8) - #10 x 3/4" stainless steel self-drilling screws (provided in straight connector package). Use (4) - #10 x 3/4" stainless steel self-drilling screws (provided in straight connector package) to lock the rail section into the fittings on the inside (the side with the rivet roll not the rivet head) of the rail section.

Step/Sloped Application: Attach utility connector ends onto both ends of the rail top and bottom using (8) - #10 x 3/4" stainless steel self-drilling screws (provided in utility package). Slide rail section into opening with utility connectors on. Set rail to desired pitch or slope. Hold the utility connector base plate on post at the desired height. Mark the utility connector base plate holes onto the post. Attach all utility connector base plates to posts using the (16) - #10 x 3/4" stainless steel self-drilling screws (provided in utility connector package). Drop rail down into base plates from the top and secure using (8) - #10 x 3/4" stainless steel self-drilling screws (provided in utility connector package) to attach and lock into position.

Optional Information: If your rail section comes with a center picket to the floor, for additional strength, you may choose to purchase a stub shoe to secure this picket or place; the picket into a hole in the mounting platform or cut the picket even with the surface of the platform.

Installing Crossover Kit: Rail sections that are over 10' long require a crossover kit (an intermediate post)

Installing a straight (level) crossover kit:

- 1) Determine which picket to remove, usually the center picket, provided that your rail section has center. If not, then use the picket closest to the center.
- 2) Using a 13/64" drill bit, drill out the top and bottom rivets from the rolled (unfinished) side of the rivets.
- 3) Remove the picket by sliding it out of the bottom channel of the rail section.
- 4) On the bottom channel measure from the center of the existing hole 1 3/8" to the left and place a mark, and 1 3/8" to the right and place a mark. A 2 3/4" opening is required.
- 5) Using a hacksaw, sawzall, or chop saw cut the bottom channels on your marks.
- 6) Place the (2) straight bottom connectors onto the bottom channels with the flat sides facing the cut-out.
- 7) Insert the post by sliding the top tongue into the underside center of the top channel and center the top tongue on the existing hole.
- 8) Attach the straight bottom connectors (provided in crossover kit) to the post using (4) - #10 x 3/4" stainless steel self-drilling screws, then use (2) - #10 x 3/4" stainless steel self-drilling screws to lock the bottom channels into the fittings on the inside (the side with the rivet roll, not the rivet head) of the rail section.
- 9) Drill a 13/64" hole through the existing hole in the top channel and through the center of the tongue and attach with (1) binding post and screw.
- 10) Attach the post flange to floor, see "Attaching Post to Floor" above.

Installing a step/stair crossover kit:

- 1) Determine which two pickets to remove, usually the two pickets closest to the center, however make sure that this location will allow the post flange to sit entirely on a step tread.
- 2) Using a 13/64" drill bit, drill out the top and bottom rivets from the rolled (unfinished) side of the rivets.
- 3) Remove the picket by sliding it out of the bottom channel of the rail section.
- 4) On the bottom channel measure from the center of the opening 3 5/16" to the left and place a mark, and 3 5/16" to the right and place a mark. A 6 5/8" opening is required.
- 5) Using a hacksaw, sawzall, or chop saw cut the bottom channels on your marks.
- 6) Determine the height of the post and cut from the top if necessary. Place the crossover cap into the top of the post and secure with (2) - #10 x 3/4" stainless steel self-drilling screws provided.

- 7) Slide the utility connector ends onto both sides of the bottom channel and secure with (4) - #10 x 3/4" stainless steel self-drilling screws provided.
- 8) Insert the post by sliding the top tongue into the underside center of the top channel and center the top tongue in the opening. Align the utility connector base plates and secure to the post with (8) - #10 x 3/4" stainless steel self-drilling screws provided.
- 9) Secure utility connector ends to the base plates through existing holes in base plate using (4) - #10 x 3/4" stainless steel self-drilling screws provided.
- 10) Make sure that the post is plumb and drill a 13/64" hole through the top channel and through the center of the tongue and attach with (1) binding post and screw.
- 11) Attach the post flange to floor, see "Attaching Post to Floor" above.

Tools Required:

- 1) Hacksaw, Sawzall, or Chop Saw
- 2) Drill (Cordless makes the job easier)
- 3) Masonary Drill with 1/4" Masonary Drill Bit (Masonry installation only)
- 4) Level
- 5) Phillip Screwdriver
- 6) 5/16" & 7/16" Hex Driver Bit
- 7) 7/16" & 9/16" Sockets and Ratchet
- 8) 5/32" HSS Drill Bit
- 9) 13/64" HSS Drill Bit (crossover kit installation only)

Care and Maintenance:

Easy soap and water cleaning and periodic waxing with any liquid car wax will keep your Age Craft Colonial Railing looking like new for years to come. Maintain your railing finish just as you would care for your car finish. Never use any caustic chemicals on or around the railing, rail fittings or post flanges. Use of rock salt or similar corrosives on or around rail fittings or post flanges can cause paint failure and voids warranty.

Product Warranty:

Age Craft Manufacturing, Inc. guarantees Colonial Railing and Fencing to be free of defects in material or workmanship for a period of five (5) years from the date of purchase. Proof of purchase is required. Age Craft Mfg., Inc. will, at the discretion repair or replace the defective product. To obtain warranty work, the defective product must be returned to Age Craft Mfg., Inc. prepaid.

Paint Finish Warranty:

Paint finish warranty for Age Craft Mfg., Inc. Colonial Railing and Fencing is as follows;

Film Integrity	Five Years
Chalking	Three Years
Fading	Three Years

OPTIONAL Adjustable Newel Post Flange (Used for sloped/ramped surfaces):

Take note that the adjustable newel post flange is 5" x 6" (not square) be sure to position flanges so that the 6" side is parallel to the edge of the mounting surface. Edge of flange should be located a minimum of 1 1/2" from edges of concrete. Place posts in desired location.

Sloped Surfaces: The newel post flange is preset at 90 degrees but is slope adjustable for ramp/sloped applications. To adjust and lock follow these steps:

- 1) On the underside of the newel post flange is a 9/16" bolt head and a 1/4" steel roll pin.
- 2) Use a 1/4" punch to punch out the 1/4" steel roll pin.
- 3) Use a 9/16" socket to retighten the bolt with the flange at the desired angle.
- 4) Drill a 5/32" hole in the opposite side of the flange from the roll pin hole and secure with a 1/4" x 3/4" lag screw.

