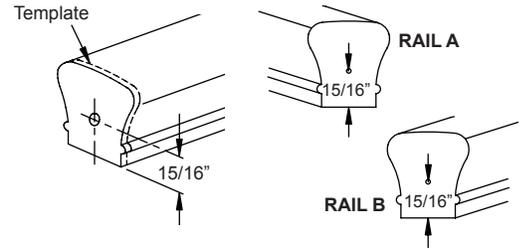
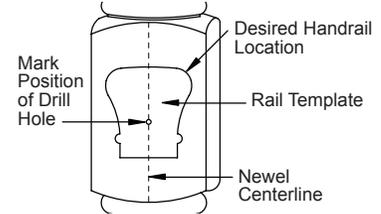


Installation Instructions for LJ-3077 Rails2Post Connector

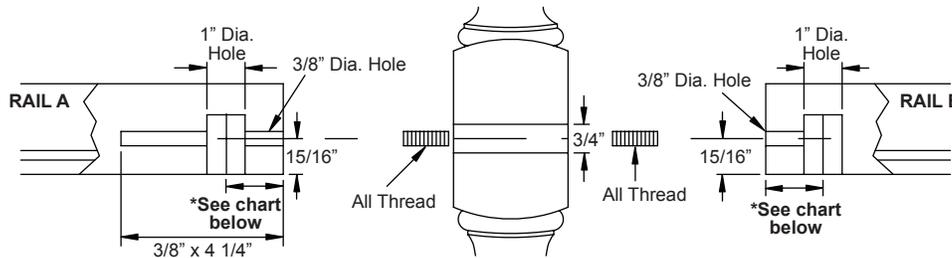
1. Make a template to mark the rail bolt center by cutting a 1/8" piece of handrail. Drill a 1/16" hole through the template as shown. Align the template on the end of each of the handrails, marking the hole location for the all-thread rod on each.



2. Using the template from Step 1, mark the position of the drill hole on the top block of the newel post. Position the mark along the center line of the post.

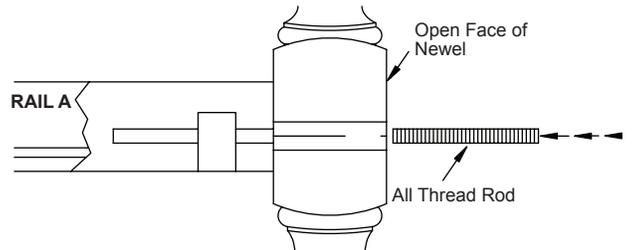


3. Drill all holes to the depths and diameters shown below. Note: Use a forstner bit for the 1" holes.

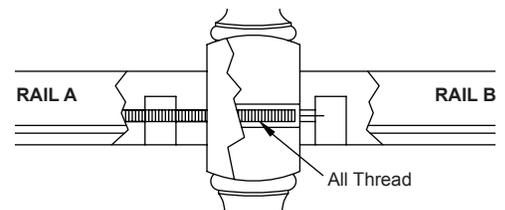


* 1" hole location will vary depending on the newel square size. See chart below for distance from rail end to hole center point.
 3" newel post - 1 5/8"
 3 1/4" newel post - 1 1/2"
 3 1/2" newel post 1 3/8"

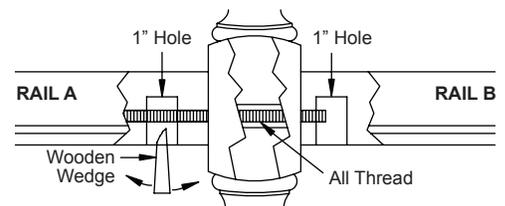
4. Position **RAIL A** against the face of the newel. Feed the all-thread rod through the top block of the newel and into the hole in the end of the rail. Work the rod into the hole until it is flush with the face of the newel. (Note: Baluster tops may need trimmed to accommodate the all-thread rod.)



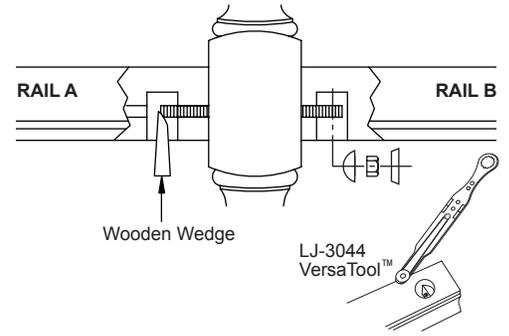
5. Place **Rail B** into position against the newel.



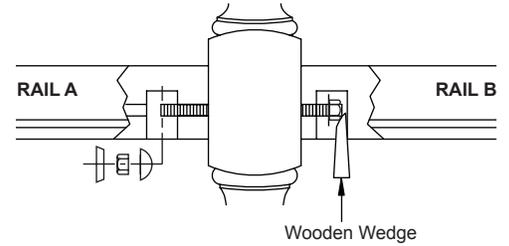
6. Use a wooden wedge or slotted screwdriver in the 1" hole of **RAIL A**. Back the all-thread rod into the hole on the end of **RAIL B**. Work the rod through until it is visible in both 1" holes.



7. Use a wooden wedge or slotted screwdriver in the 1" hole on **RAIL A** to stabilize the rod. Assemble the bolt connection in **RAIL B** using a radius washer, nut and an LJ-3044 VersaTool™. Do not tighten the nut.



8. Use a wooden wedge or slotted screwdriver in the 1" hole on **RAIL B** to stabilize the rod. Assemble the bolt connection in **RAIL A** using a radius washer, nut and an LJ-3044 VersaTool™.



9. Using two wrenches, tighten both bolt assemblies ensuring that both rails are centered on the newel face and level with each other. Use glue only on final assembly.

10. Use glue and the provided wood plugs to finish the installation.



L. J. Smith
Stair Systems

35280 Scio-Bowerston Road, Bowerston, Ohio 44695
www.LJSmith.net