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How to attach handrail to newel posts with: **S-9601 ANGLED RAIL BOLT KIT & 3905 RAIL BOLT DRIVER**



S-9601



3905



1. Determine the angle needed for your handrail by aligning it at top and bottom.



2. Draw a line to guide your cut of the handrail at the appropriate angle.



3. Cut the handrail a little longer than the line from step 2, to ensure a correct fit. We recommend using a Miter saw with a "Fine" Wood Cutting Carbide Tip blade.



4. Check your cut to make sure everything lines up.



5.
Using a 3/16" drill bit:
Drill a 2" deep hole in the center of the newel you are attaching the handrail to.



6.
Tighten the S-9601 Angled Rail Bolt Kit until no wood screws are visible. Tighten by hand or with a wrench.



7.
Using a 5/16" drill bit:
Drill a 2" deep hole in the center of the angle cut handrail (must line up with bolt from 6).



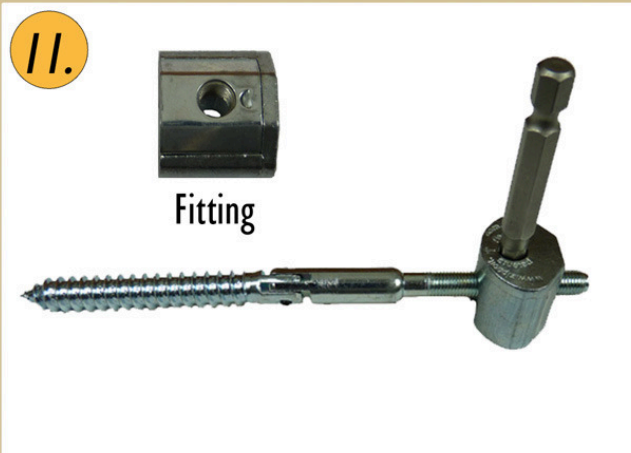
8.
Using a 1" wood boring bit, drill a hole 2" from the end of the bottom of the handrail. Drill 1/2" deeper than the hole from step 7.



9. Without applying any glue, slide the handrail over the bolt from step 6.



10. Check to ensure the fit will be good once you tighten the special fitting.



11. Insert the fitting into the hole cut in step 8. Make sure to put it in the correct direction (look for arrow on top of fitting).



12. Turning the 3905 Rail Bolt Driver will turn the fitting and tighten it. Creating a good fit between the post and handrail.



13.



Once you have tested everything, loosen the fitting, apply wood glue and reassemble everything.

14.



This time tighten the fitting with a pair of pliers for a better connection.

15.



Install a 1" wood plug with wood glue into the hole from step 8. Plugs are sold separately online for a minor charge.

16.



Enjoy your easily installed new handrail.