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How to attach handrail to handrail fittings with: **S-9600 RAIL BOLT KIT & 3901 RAIL BOLT WRENCH.**



S-9600



3901



1.
Using a 3/16" drill bit:
Drill a 2" deep hole in the center of the
end of the fitting.

2.



Lag-end

Machine-end

The bolt included with the S-9600 RAIL BOLT
KIT, is 3 1/2" long. 2" have lag threads,
1 1/2 have machine threads.



3.
Picture shows using a pair of vice grips to
screw the lag-end of the RAIL BOLT into the
3/16" hole in the fitting. We recommend...

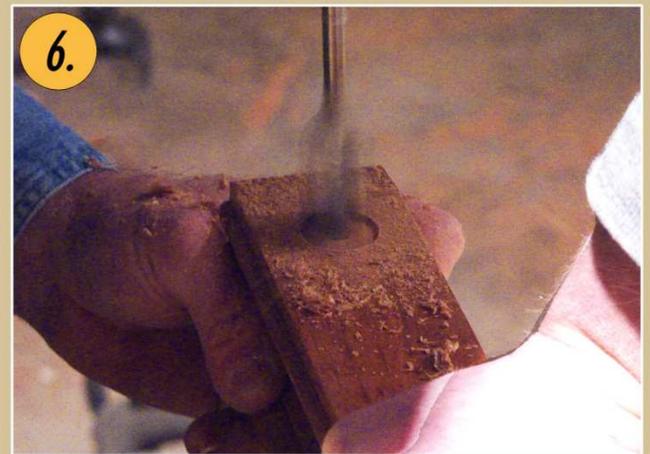
4.



Using the 3901 RAIL BOLT WRENCH. The
machine end of the RAIL BOLT screws into
the wrench, allowing you to easily screw
the lag-end, into the fitting.



5. Using a 5/16" drill bit.
Drill a 2" deep hole in the center of the handrail (must line up with bolt from step 3).



6. Use 1" wood boring bit, drill hole 1 1/2" from the end of handrail (to center of hole). Drill 1/4" deeper than the 5/16" hole from step 5.



7. This is how your handrail should look after drilling holes from steps 5 & 6.



8. Without using any glue, insert machine end of RAIL BOLT into 5/16" hole from step 5 to make sure everything lines up properly.



9.



Metal Nut



Plastic Washer

Metal nut (for machine end of RAIL BOLT), and rounded plastic washer. Both included with S-9600 RAIL BOLT KIT.

10.



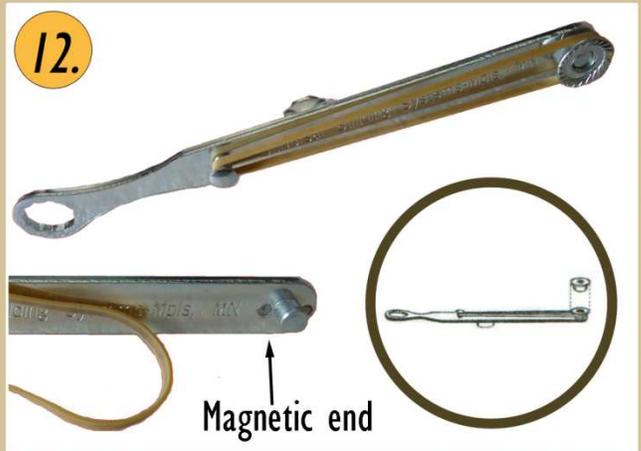
Hold plastic washer inside 1" hole from step 6. Insert machine end of RAIL BOLT into 5/16" hole from step 5.

11.



Insert metal nut into the 1" hole, and fasten to the machine end of the RAIL BOLT. Image shows doing this with fingers. We Recommend...

12.

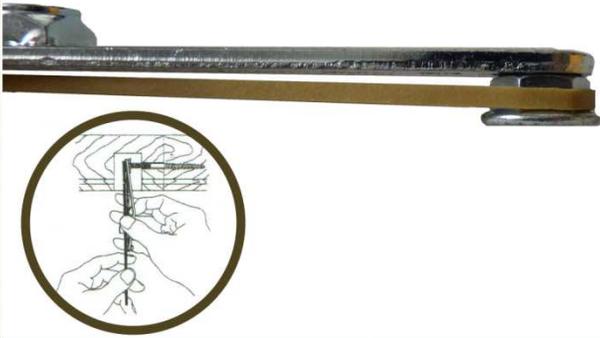


Magnetic end

Using the 3901 RAIL BOLT WRENCH. Remove rubber band from magnetic end, put metal nut on magnetic end, and stretch rubber band around the nut.



13.



If using RAIL BOLT WRENCH, lower nut into place, and pull rubber band to turn and screw nut onto machine end of RAIL BOLT.

14.



Using the wrench on the other end of the RAIL BOLT WRENCH, tighten the nut to 80%.

15.



Assuming the parts from step 14 line up, partially unscrew the nut from the RAIL BOLT and apply wood glue between the handrail & fitting.

16.



Once the glue is applied, fasten the nut to 80%, make sure everything is lined up, then tighten nut 100%.



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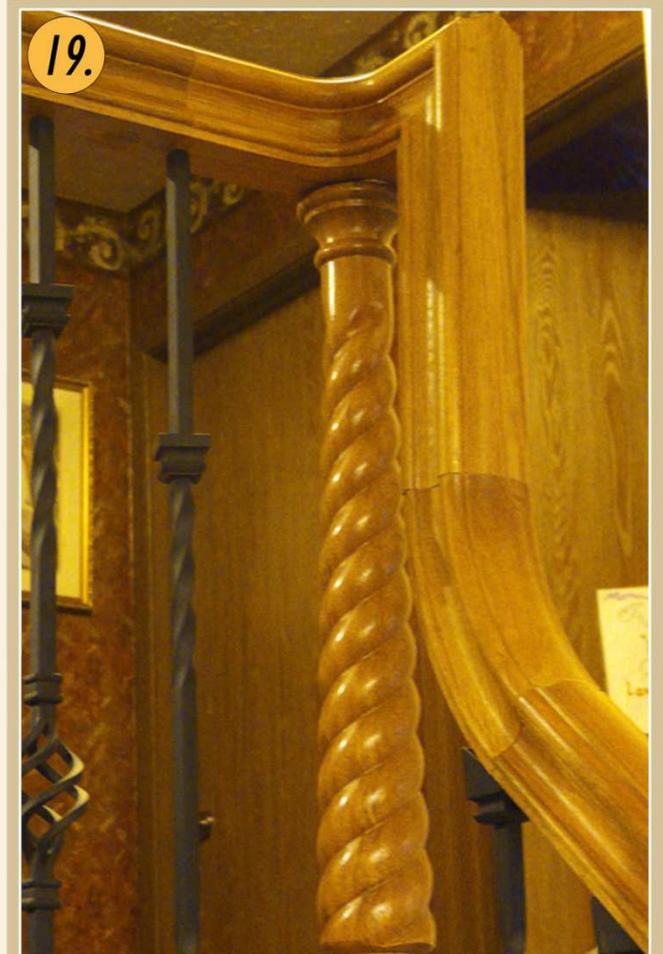
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Minor sanding may be required for handrail and fitting to come together perfectly.



Install 1" plug with wood glue in the hanrail. A Red Oak plug is included, additional size and wood species plugs available online.



Enjoy your new handrail system from Stair Supplies.

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