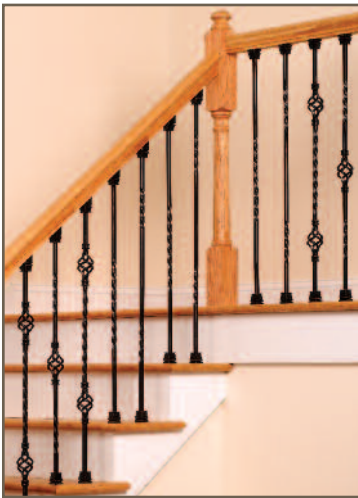


Baluster replacement made easy.



Guide to  
installing forged  
iron balusters.

Open tread  
staircases.



- The 3/4" holes need to be plugged with the included dowels. Measure the depth of the hole to ensure the dowel will fit up to 1/16" below the tread surface. **Example:** Insert a rod into the hole and mark off above the recommended depth (See # 9 for installation).



- Now glue around the inside of the hole and insert the supplied dowel plug. We recommend Crown Heritage 15 Minute Epoxy for its strong bonding characteristics.



- Tap the dowel into the 3/4" hole and make sure the dowel sits flush with the tread or no more than 1/16" below the surface.



- If need be, use an implement, such as the rod shown in the photo, to tap the dowel plug below the surface level.



- This picture shows how the dowel plug should be correctly installed — flush with the surface or no more than 1/16" below. **Let the epoxy glue set and cure.**



- Now drill a 13/64" vertical pilot hole into the center of the dowel plug. **Note:** The 13/64" drill bit size will be critical to the success of your installation.

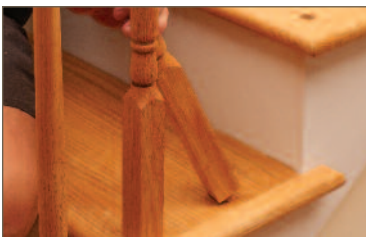


- Use a crescent wrench\* (as shown) to screw sockets into each dowel hole on the treads. The sockets must sit flush with the tread. **\*It will be easier to use a 3/8" socket wrench with the Crown Heritage socket driver.**

The following installation requires the same installation methods on treads and landings.



- Cut the old balusters with a circular saw or reciprocating saw.



- Remove the old balusters from the previous installation to reveal the installation holes in the tread and the underside of the handrail.



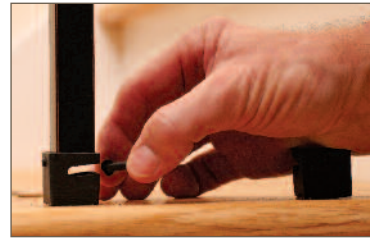
- Be sure to remove any dowels, debris and any screws or nails from the previous installation holes.



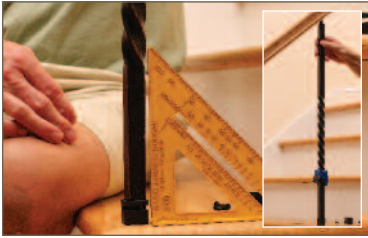
- Previous hole size may vary, but are usually 3/4". If smaller, re-drill them with a 3/4" spade bit. If the holes are larger than 3/4", cut your own custom sized dowel to fit the hole.



12. Now measure the baluster for cutting. Invert the baluster and place it into the socket.



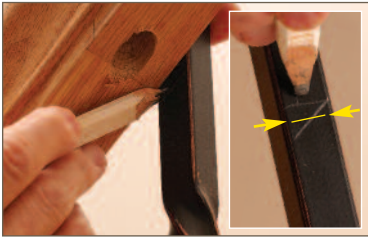
19. With the baluster raised into the handrail hole, insert the baluster support axle into the socket.



13. Ensure the baluster is vertical and in alignment with the hole underneath the handrail.



20. Now, with a 2.5 mm allen wrench, tighten the socket set screw to secure the baluster firmly in position.



14. With the baluster against the handrail mark off the height of the baluster for cutting. Note that the baluster must be cut in the middle of the marked angle. EVERY baluster must be measured and cut this way.



21. With both hands on the baluster, rotate counter-clockwise. This process will unscrew the socket and raise the baluster to fit securely in the handrail hole.



15. Cut the baluster at the point shown in # 14. We recommend renting a portable band saw for the cutting process. TIP: Always cut balusters slightly longer and adjust the cut shorter to avoid wasting a baluster.



22. Now that the baluster has been raised, drop the Base Flat Shoe to the tread surface.



16. Now that the baluster has been cut to length, slide the Base Flat Shoe onto the baluster. TIP: Temporarily tape the baluster to prevent the shoe from sliding down during this part of the installation.



23. Secure the Base Flat Shoe by tightening the set screw with a 2.5 mm allen wrench.



17. Insert the baluster into the socket.



24. At this point ensure that the top of the baluster has pushed the bushing up into, or as far as possible into the handrail hole (See # 21). This will firmly secure the baluster in place.



18. Put the Top Angle Shoe on the baluster so that it matches the handrail angle. Now, insert the baluster into the handrail hole using a 5/8" bushing when replacing 1-1/4" balusters. Use a 3/4" bushing when replacing 1-3/4" balusters.



25. Finally, slide the Top Angle Shoe up to the handrail and tighten the set screw with a 2.5 mm allen wrench. Now repeat this installation process for every baluster in the balustrade.