



Transformer Top Flat Shoe Instructions for the 9126, 9146 and 9196

Contents of package:
2 top flat shoes

9196 flat shoes require the bottom of the handrail be more than 1-3/4" wide.

We recommend watching the installation video at www.TheTransformerSystem.com before starting.

Please read these instructions *entirely* before starting.

Always install base shoes before top shoes.

These shoes are designed to be used at the top of the baluster and underneath the handrail and cannot be used on the bottom of the baluster. The balusters that use these shoes will be on landings and balconies where the handrail is level.

If you are replacing pin top balusters follow the Pin Top instructions immediately below this paragraph or if you are replacing square top balusters then skip to the instructions for Square Top Baluster Replacement.

Pin Top Baluster Replacement

*It is not a requirement for installation that top shoes be used on **1900 Series** pin top balusters. It is a personal preference.*

If your old balusters were pin top balusters then they would have been installed in a hole in the handrail. Measure the diameter size of the top of the baluster carefully. Most often the size of the top of the baluster will be 5/8" but occasionally will be 3/4" or another size. The ideal depth for the hole into the handrail is 3/4" but these depths usually vary. To overcome the fact that the dowel on top of the iron baluster is smaller you should use a bushing, which is sold separately. Crown Heritage offers a 5/8" bushing and a 3/4" bushing. Choose the one

that is closest but smaller than the hole in the handrail. If the hole in the handrail is larger than 7/8" then you will need to fill the hole with a dowel of the correct size and bore the handrail to the correct size. For 1200 and 1400 Series the hole should be drilled 1/2". For 1900 Series the hole should be 9/16". Now you are ready to install the baluster.

Square Top Baluster Replacement

If your old balusters were square top then you will need to drill a baluster hole into the bottom of the handrail. Carefully remove the fillet that is installed between each square top baluster and with a pencil mark the fillet. You may start at one end of the stairs and number each fillet in order so that you can replace them in the same sequence. With the fillet removed, mark the center of the location where you will drill the hole in the bottom of the handrail. Using a 4' level or a 4' T-Square find the center of the hole in the tread or the center of the dowel where you have bored the 13/64" hole and stand the level straight up against the side of the handrail. For 1200 and 1400 Series installations drill a 1/2" spade bit drill the hole into the handrail 3/4" deep. For 1900 Series installations drill the hole using a 9/16" spade bit 3/4" deep. Make sure the hole in the handrail is plumb or at right angles to the tread and floor. A Transformer System Bushing is not required if you have drilled a 1/2" hole (for 1200 and 1400 Series or a 9/16" for 1900 Series installations) in the bottom of the handrail. Now you are ready to install the baluster.

To mark the baluster for trimming (see complete instructions for cutting iron

balusters on the website or in the installation pamphlet) you must have the baluster socket in place. Invert the baluster and insert the top of the baluster in the baluster socket making sure the set screw does not prevent the baluster from resting on the bottom of the socket. While holding the baluster plumb and in line with the hole you have drilled, make a mark on the baluster at the bottom edge of the rail and then cut the baluster at this mark. After cutting the iron baluster to the proper length place the top and base shoes onto the baluster. Make sure you use the base shoe on the bottom of the baluster. You may now install the baluster by inserting the base of the baluster into the previously installed baluster socket. Just before you insert the round iron dowel top into the hole put one of the bushings on top of the iron dowel. Gently push the baluster into a vertical position in the hole.

For more detailed instructions visit our website at www.TheTransformerSystem.com.

WARRANTY:

Crown Heritage conditionally guarantees its products to be free from defective material or workmanship for one (1) year. The Transformer System of iron balusters and shoes is made with close specifications to work correctly. Using a competitor's balusters will void the warranty.

REGISTER YOUR PRODUCT:

To activate your warranty and to receive updates and notices of new products which will enhance your installation please register this product at www.TheTransformerSystem.com.