

SOLUTION

THE CONTEMPORARY STAIR CHOICE By Shaw Stairs Ltd

INSTALLATION INSTRUCTIONS



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Shaw Stairs are proud to offer the Solution stair balustrade components. The system has been designed to be simple to install and will provide you with a superb modern look to your stairs.

Your Solution Stair Parts will be installed in 3 steps. The first step is to install your newel posts where new posts are being fitted. Next come handrails and baserails, with the balusters being fitted as the last step.

Installing Newels

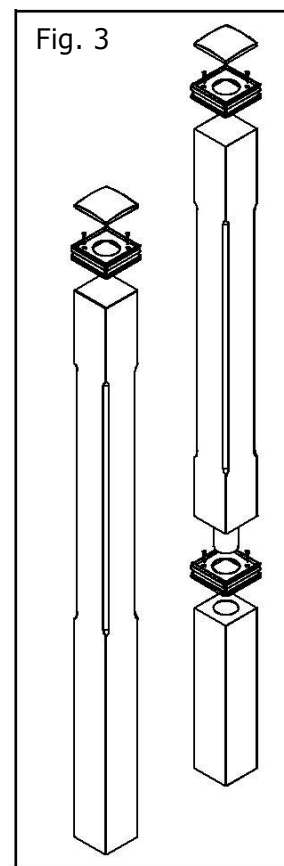
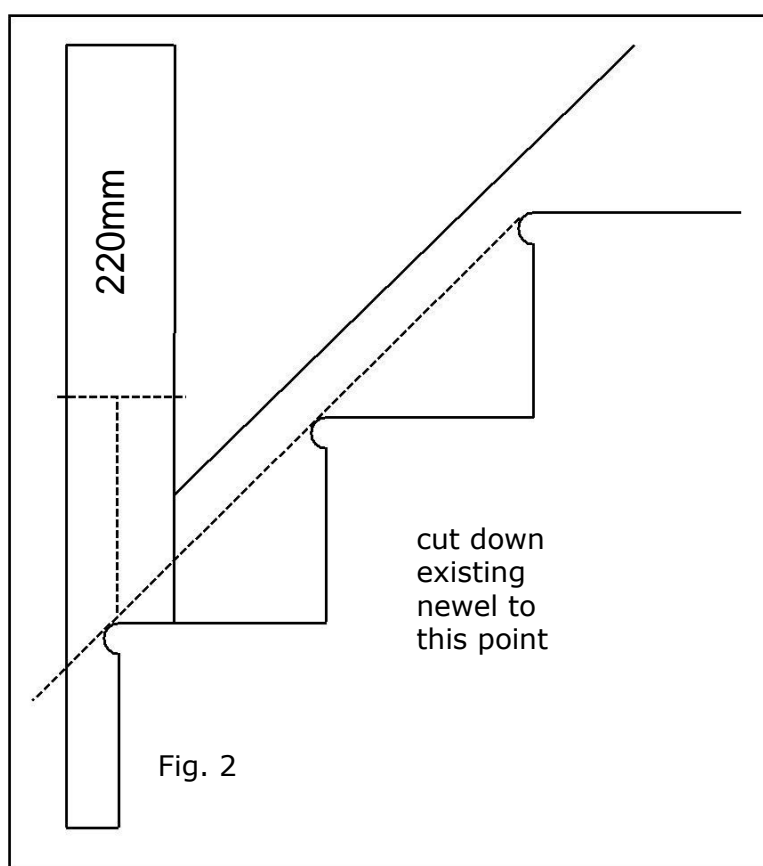
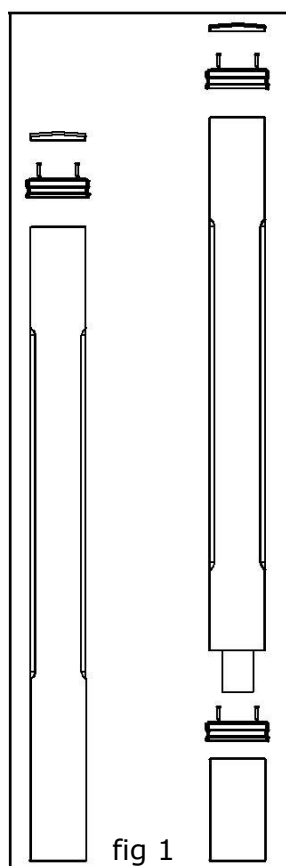
Prior to installing your new Solution stairparts, you will need to remove the old balustrading. With Solution you can either use existing newels, replace the whole newel, or cut the existing newel down to form a base for a Solution top section to be attached (see Fig 1).

If you plan to cut down your existing newels then these need to be cut off at a specific height. To work out this height, place a straight edge on the stair treads, and where this line crosses the centre of the newel post, measure up 220mm. Cut the post off square at this point. (see Fig 2).

With the newel base trimmed down, you will need to drill a 50mm hole centrally in the newel base to a depth of 80mm to accommodate the newel spigot. This is best done with a holesaw, drilling to the full depth of the holesaw first, then removing the centre with a spade bit, also a router with a jig is a very professional way if this is available.

If your existing newel is under 90mm square, then you will need to use timber sheet to face it up to this dimension. With this completed, fix the newel cap/connector to the top of the existing post.

The newel is then bonded into place on top and completed with the newel cap (Fig. 3).



Installing Handrails & Baserails

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With the newels in place you can then move onto fitting the handrails and baserails. Starting with the handrail, offer the handrail up to the newel posts and trim to length, remembering to allow space for the handrail connectors. Don't forget to cut the landing handrail also.

With the handrails cut, next offer up the baserails to the newel posts, mark and cut to length. You will need baserail on the landing as well. This can be mitred as necessary to return the baserail along the landing. Ensure that the baserail is cut to fit vertically underneath the handrail.

The next stage is to ensure that the handrails are installed at the correct height to accept the balusters without trimming them. Whilst the balusters are designed so that they can be trimmed if necessary, by setting the handrails at the right height, the installation time is greatly reduced.

First fix the baserail to the stairs and the landing by screwing through the bottom of the groove. Ensure that it is placed vertically under the handrail. With the baserail in place, take two assembled balusters (see baluster section for details of how to assemble balusters) and hold temporarily in place along with each handrail section.

Assemble the handrail connectors using the M8 bolt and spring washer provided. Mark where the handrail connectors will need to be fitted to the newel posts, and with the balusters removed, install the handrails (Fig. 4). You are now ready to fit the balusters.

Installing Balusters

Prior to installing the balusters, you will need to assemble them. Place the baluster end caps onto the ends of the baluster and secure with the self tapping screws provided. With the end caps in place, slide the pivot section of the baluster bracket into place on the end cap (Fig. 5).

With your balusters assembled, they will need to be spaced equally along each run. You should ensure that the gap between each baluster is no more than 99mm to comply with building regulations.

The grooves in the rail will locate the brackets and then a single screw is used at each end to secure in place. Note that there are two screw holes in each bracket to allow easier fixing at different angles but only a single screw will be used at each end of the baluster.

With your balusters in place the installation is completed. You will need to finish the timber elements of the system asap to ensure that they do not get dirty. The metal parts of the system can be cleaned with a soft polishing cloth. Do not use abrasive cleaners on these parts.

Thankyou for choosing Solution stairparts and we hope that you are delighted with your new balustrade.

