

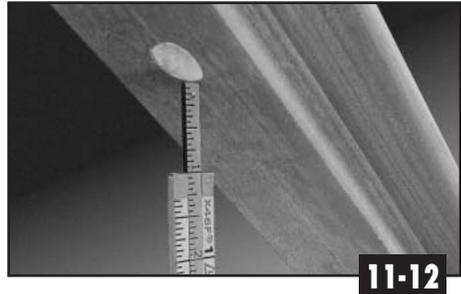
FORGED INSTALLATION

Use with both slow and fast drying epoxies.

Begin the installation by **PERMANENTLY** attaching the handrail throughout the stair and marking the treads and the underside of the rail for baluster placement. At each baluster location drill the appropriate diameter hole $3/8$ " deep into the treads and a $1/2$ " diameter hole approximately 1" deep in the underside of the rail. *NOTE:* The tops of M401, M402, M411 and Belly Baluster are square and will require a $11/16$ " diameter hole in the rail. **PHOTO 11-11.**



With all baluster holes drilled and the rail permanently installed, use a carpenter's rule to measure the exact distance from the tread to the lower side of the drilled $1/2$ " diameter hole in the rail. **PHOTO 11-12.**



After adding $9/16$ " for insertion into the rail and $3/8$ " for insertion into the tread (a total of $15/16$ "), use a chop saw equipped with a standard $1/8$ " flexible cut-off blade to trim the baluster to the exact length. **PHOTO 11-13.**



Working one baluster at a time, deposit epoxy adhesive for a single baluster into both the tread and baluster hole. **PHOTO 11-14.**





11-15

With the base collar placed on the bottom of the baluster, work the baluster into place by inserting the top of the baluster into the rail hole and sliding the bottom of the baluster over and down into the tread hole. **PHOTO 11-15.**



11-16

Use a combination square to straighten each baluster. **PHOTO 11-16.**



11-17

Finish installation by using epoxy to fill any void around the base of the baluster and to secure the base collar. **PHOTO 11-17.**

SPECIALTY INSTRUCTIONS AND ACCESSORIES



MEDALLION BALUSTERS

Arch Medallion Balusters has been discontinued

Medallions consist of two halves that screw together. Apply epoxy adhesive on the screw and contact points. **PHOTO 11-19.**

Screw together for permanent installation. **PHOTO 11-20.**



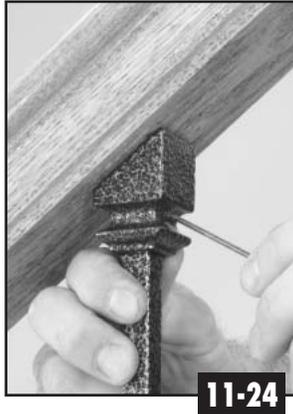
ADJUSTABLE COLLARS

The Adjustable Collar, when used with the PLA44 straight forged baluster, can be used to design a distinctive pattern within any forged system. Place the required number of adjustable collars on each straight baluster before installing. **PHOTO 11-21.**

After the balusters are installed, use an allen wrench to tighten the collar's set screw, permanently attaching the collar at the desired location. **PHOTO 11-22.**



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RAKE COLLARS

Rake Collars (*angled collars*) replace the base collar on knee wall stairs. Place a collar onto the bottom of all balusters before installing. With the collar resting firmly on the knee wall, permanently attach the rake collars by tightening the provided set screw.

PHOTO 11-23.

If desired, Rake Collars can also be used underneath the handrail. **PHOTO 11-24.**



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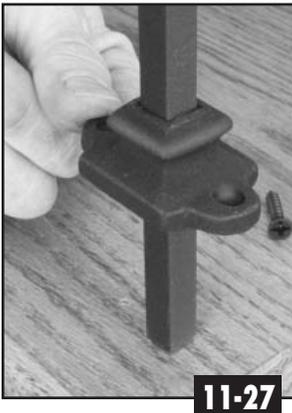


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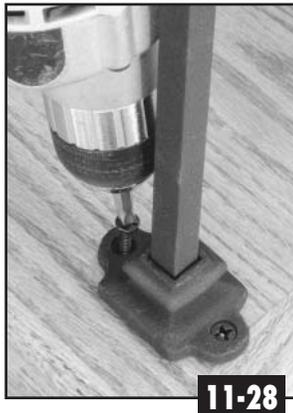
RD201 ROUND COLLARS

The RD201 Round Collar is a versatile base collar that can be used with both 1/2" and 5/8" Forged Balusters. The plastic insert holds the collar out of the way during epoxy installation. **NOTE:** Square SQ301 collars are also available. **PHOTO 11-25.**

The round base makes for a quick and perfect alignment of the collar. **PHOTO 11-26.**



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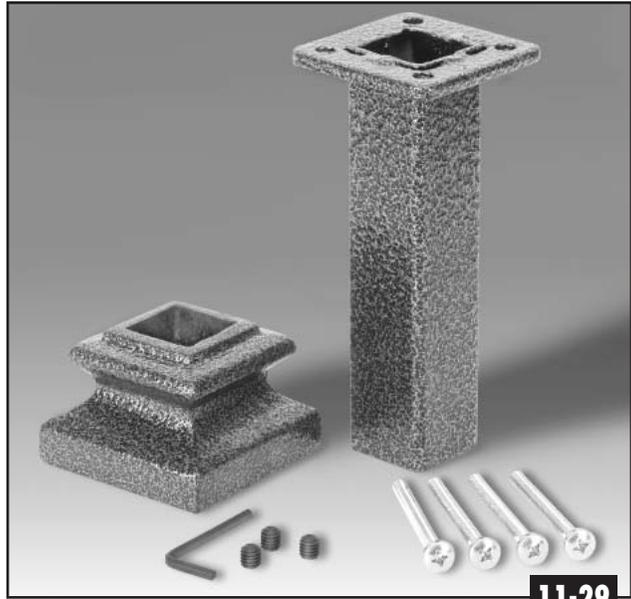
FLARED COLLARS

The SCR04 (for 1/2" balusters) Flared Collar with Screws is an installation system where the drilling of treads is not required. Trim the baluster flush to the top of the tread. **PHOTO 11-27.**

Secure the base collar by predrilling and screwing into place. **PHOTO 11-28.**

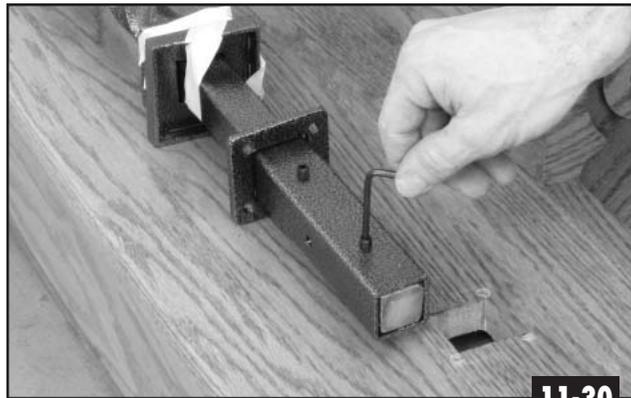
NC101 FORGED NEWEL ATTACHING SYSTEM

The NC101 Forged Newel Attaching System is shipped complete with the collar, shaft, and all necessary screws needed for installation. **PHOTO 11-29.**



11-29

Begin installation by drilling or cutting a hole in the proper location. With the base collar placed on the newel, attach the shaft to the precut newel with the provided allen wrench and screws. **PHOTO 11-30.**



11-30

Place the shaft into the hole and permanently attach with provided 3" anchoring screws. **PHOTO 11-31.**



11-31

Finish the installation by using epoxy to secure the base collar. **PHOTO 11-32.**



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