



Atom² Pen Kit Fitting / Assembly Guide

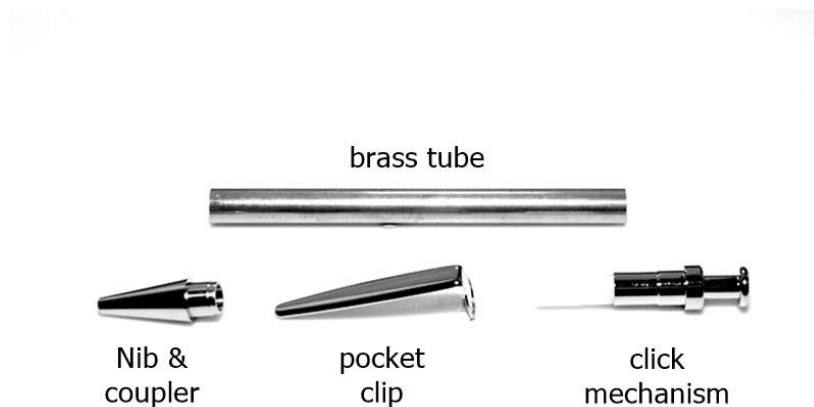
The Atom² is a precision pen kit, please read this guide fully before beginning to make your kit

Blank size: 105mm x 16mm x 16mm (trimmed down to 99mm)

Drill: AT² Drill: 8.7mm

Bushings: AT2MBS

The bushings can be used on a mandrel or between centres



1] Drill your blank using Atom2 drill, abrade the surface of the brass pen tube lightly and glue inside the blank using your preferred adhesive. The drill flutes are slightly shorter than the blank length so ensure you withdraw the drill regularly to remove swarf and allow the drill to cool if necessary.

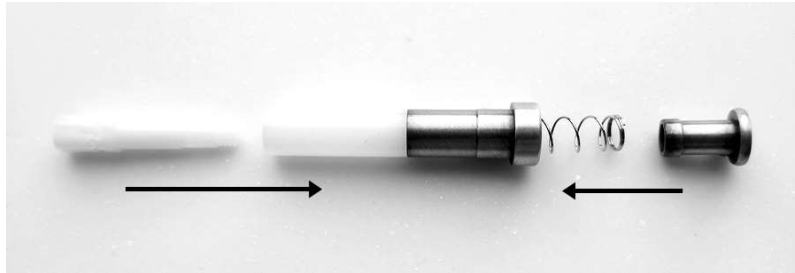
2] Once dry trim off any excess blank using your chosen method (sanding / pen barrel trimmer) ensuring each end is completely flat and trimmed to the correct length. The length for a good fit is 99mm. **There must be NO GLUE inside the tube or it will foul the mechanism and stop the pen working correctly.**

3] Place a bushing part in either end of the tube and mount on your lathe between centres. Ensure sufficient pressure to ensure the blank does not stall on tool presentation. We recommend a 60° dead centre at headstock end and a live centre at tailstock. If you do not have a dead centre it is very easy to make one yourself by mounting a scrap of wood into a chuck and turning to a point

4] Turn and finish to your requirements – the Atom² has been designed to allow your design flair to experiment with shapes and designs to make a unique and individual pen

ASSEMBLY

5] Assemble the click mechanism by pushing the 2 plastic parts together into the mechanism sleeve and use the refill to push the threaded part out of the top. Drop the spring over the thread and then gently screw on the click button until finger tight. The full mechanism is now ready for fitting to your blanks, see image below:



6] Place the pocket clip over the click mechanism and insert into the heel end of the pen and using your preferred method (press/vice/lathe etc) press firmly into place

7] Place the assembled nib and coupler to the nib end of the blank and repeat the step above to press into place

8] Once both ends are in place unscrew the nib and insert the refill with the spring over the nib end and re-fit the nib section

Your pen is now complete and ready to use.