



Twin Ended Pen Kit Fitting / Assembly Guide **(Also known as Baseball Bat Pen Kit)**

For those familiar with baseball bat pen kits from the USA some of the parts of this kit will be familiar, however we do not call our kits a baseball bat kit as they have no end caps and as such can be made into many different shapes.

The omission of these parts makes this kit far more versatile.

Most kits from the USA require special mandrels and bushing sets – we do not use any of these in the construction of our kits.

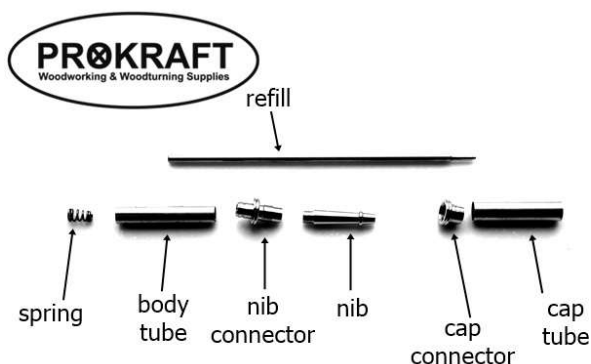
Please read these instructions fully before starting – as is often the case the kits are quite easy to make but complex to explain, we recommend studying the parts first to become familiar with the different components. The different gold fittings come pre-assembled to assist with this process.

The tools we use for making these kits are as follows:

7mm drill bit
6mm drill bit
Glue
1 pen blank minimum 150mm long

We will turn the main body and the handle separately.

The parts of the kit are detailed below:



To make the cap

1] Cut the blank to a minimum 45mm in length

2] Mark the centres of the blank at both ends and at one end drill a 7mm hole 30mm deep – this is for the larger of the brass pen tubes

3] lightly sand the brass tube to assist adhesion and glue into the blank

4] Mount on a lathe between centres using a dead centre at headstock end and a live centre at tailstock

5] Turn the brass tube end to a diameter of 8.7mm – because the centre rings of the kit are curves this does not have to be precise – there is room for a little error without affecting the finished appearance.

6] As an alternative method this part can be mounted on a standard mandrel at one end and a bushing from a Prokraft Atom pen kit may be used to assist in dimensioning.

7] Turn to your desired shape and when finished the scrap wooden end will need to be cut and finished by hand.

To make the main body

1] Take the remaining blank and mark centres at each end

2] Drill a 6mm diameter hole at one end to a depth of 75mm (if you are using the spring which is optional) You may prefer to drill the exact depth for the refill or a different depth if you wish to fit a different refill, there are several types that will fit into the nib section.

3] Lightly sand the smaller brass tube to assist adhesion and glue into the end of the blank

4] Follow mounting steps as for the cap and turn to 9mm diameter at the brass tube end – please note this tube will only fit on a 5mm mandrel – these are rare so we don't use one in our process.

5] Turn to your desired shape and when finished the scrap wooden end will need to be removed and finished by hand

Assembly

1] To assemble the cap simply push the cap connector into the cap tube – you may wish to glue in place

2] To assemble the main body first insert the spring, narrow part towards the pen nib. **NB: the spring will not fit into the kit once the nib connector is attached.**

3] Then connect by gluing the nib connector into the brass tube of the body – ensure the parts are all centred and level

4] Insert the pen refill and then screw on the nib section

5] Lastly screw on the cap and the kit is finished

You can make a baseball bat shape or equally any shape you desire – the only limit is your imagination.