

# Installation instructions Schaller-Bridge „Hannes“



## Tools, machines and materials required:

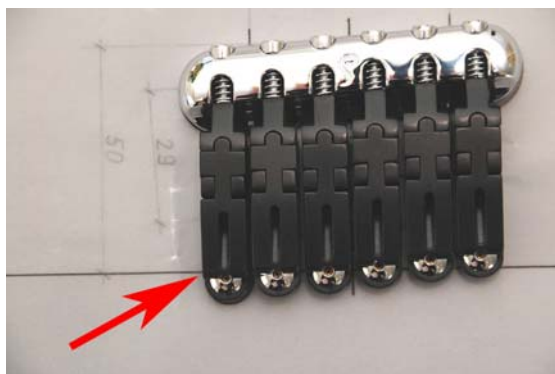
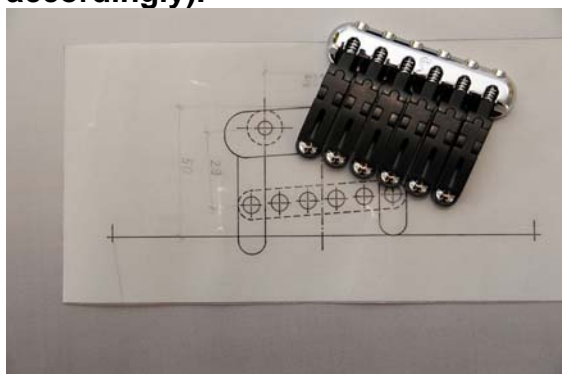
- Transparent paper for template
- Drill bit for bridge mounting: 5.5mm / 13mm
- Drill bit for string ferrules: 6mm
- Drill bit for string anchor plate: 1.5mm
- Routing machine for string anchor plate: 11mm (10mm)
- Flat drill
- Box column drill
- Hand router

## The scope of supply includes the following accessories:

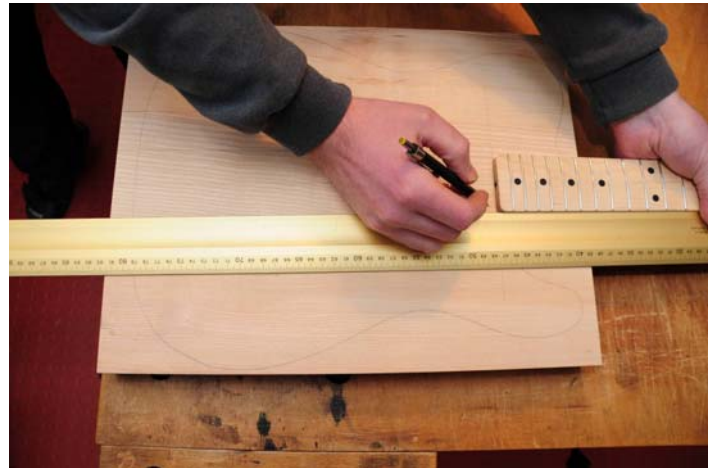
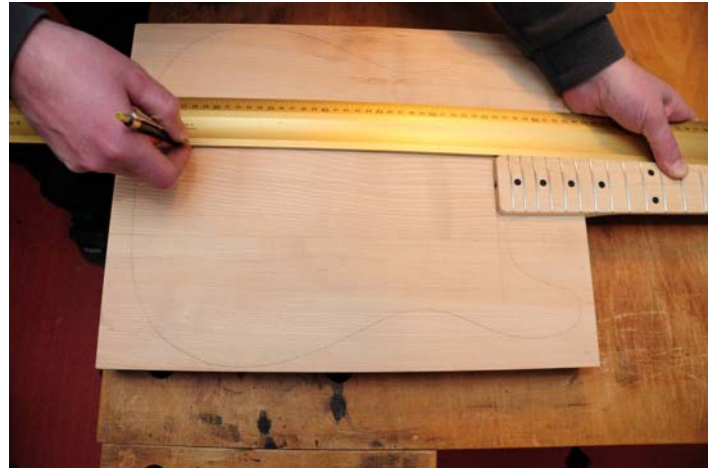
- 1 piec. String anchor plate
- 2 piec. Wood screws LK 2,5x9,5
- 2 piec. Mounting screws SK M5x50
- 2 piec. Screw sockets (13mm)
- 3 piec. Allen Keys (2,0/2,5/3,0 mm)



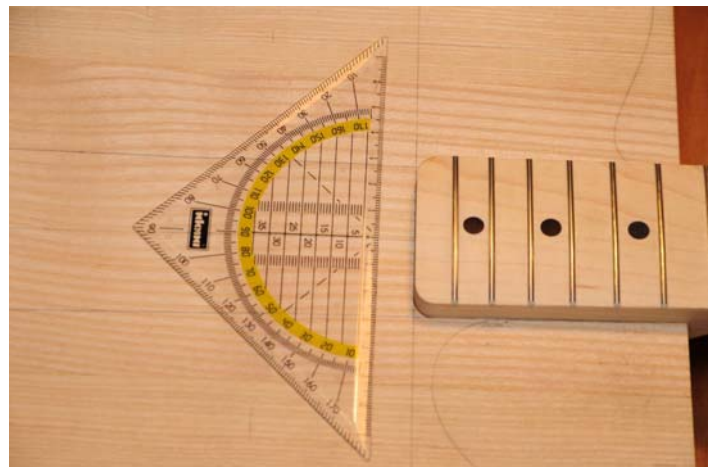
**Begin by setting the Schaller "Hannes" bridge up in such a way that the intonation screws are in the mid-way position (~ saddles are flush to the bridge). The front edge of the high E-string's saddle must match up to the mensur line (place it accordingly).**

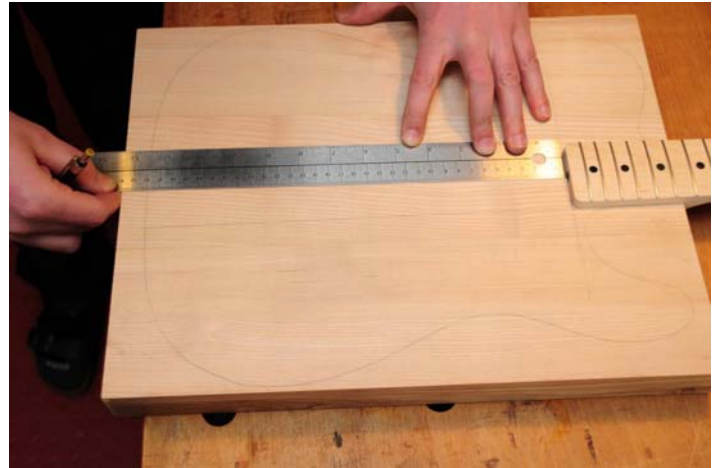


- First mark out the center axis and the mensur on the body so that the template for the "Hannes" bridge can be positioned exactly right.
- Do this by laying a straight ruler of sufficient length on each side of the fretboard and marking the continued outline of the neck onto the body.



- Using the two lines, mark out on the guitar body the center axis required to position the bridge.





- The mensur point is obtained by multiplying the measurement from the nut to the 12th fret (middle of the fret) by two;

In our example:  
This is  $323.85\text{mm} \times 2 = 647.7\text{mm}$ ,  
i.e. typical mensur for Fender instruments.



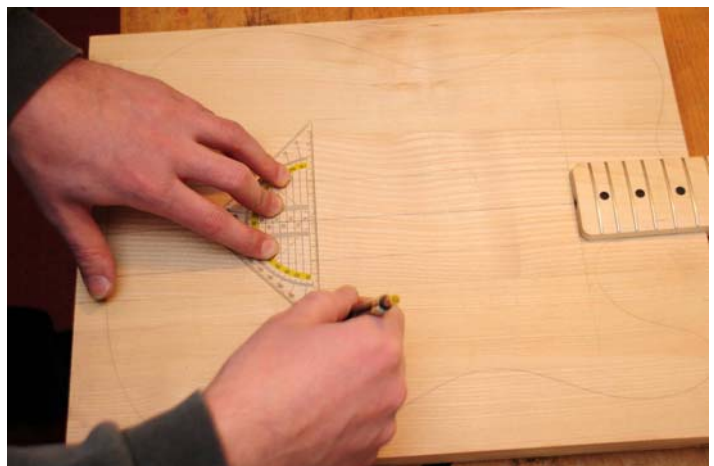




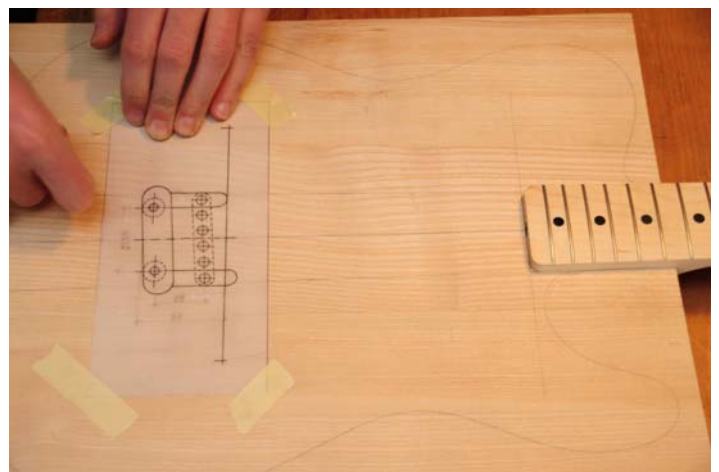
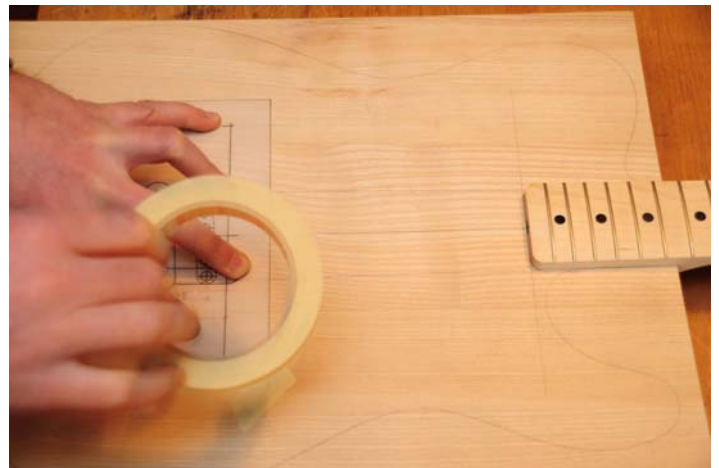
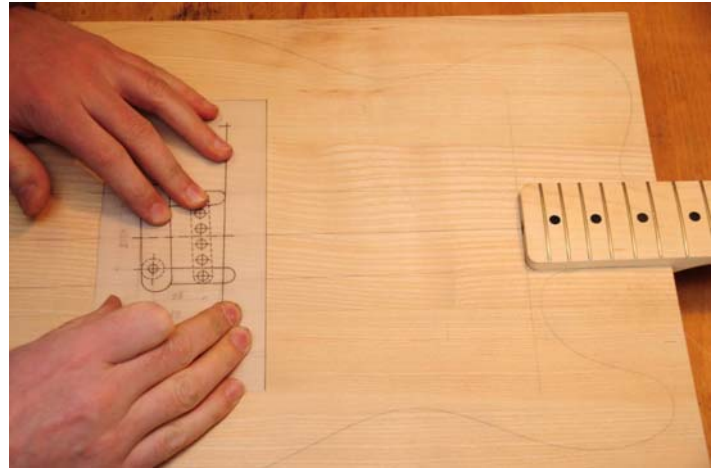
- The best thing to do is to use a tape measure to mark out the mensur on the central axis on the guitar body.



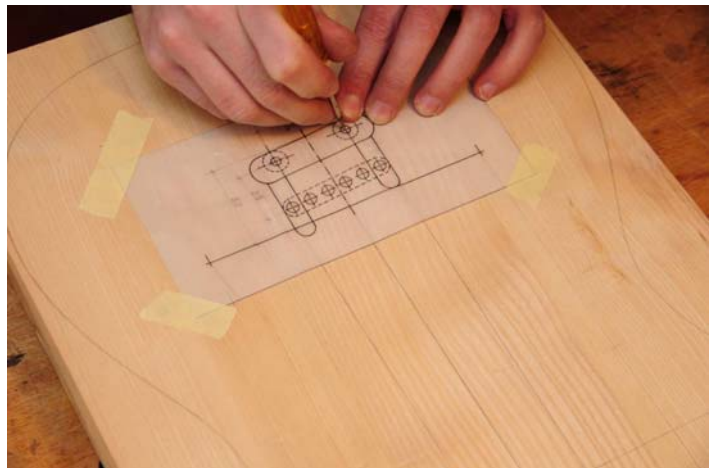
- Then extend the mensur point left and right (based on the central axis at a 90° angle to the center axis).



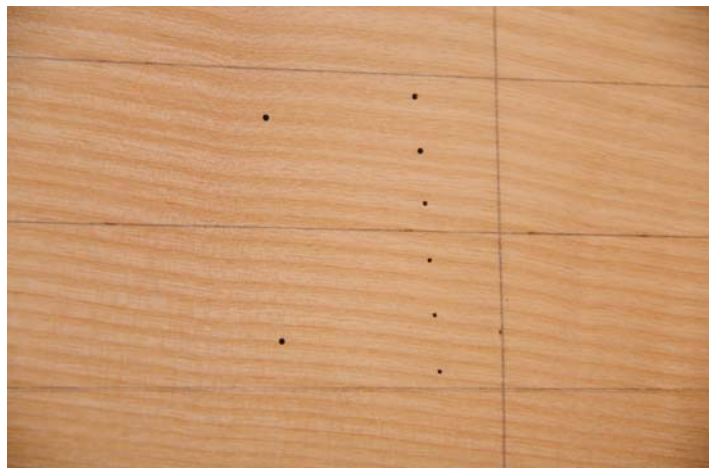
- Now position the template on the axial cross you have drawn and fix it with adhesive tape (the line marked on the template must run over the axial cross).



- Use a sharp flat drill to mark out the required drill holes.



- Once you have removed the template, ...



→ ...you can drill the holes for the bridge to be mounted; now drill the holes for fixing the bridge and for the string ferrules (on the front of the body). In order to drill the holes exactly, a box column drill is absolutely necessary. Drill bits with a centering tip should also be used - if available - in order for the holes to be drilled more precisely. A 5.5mm drill bit is required for the bridge mounting screws, and a 6mm bit for the string ferrules.

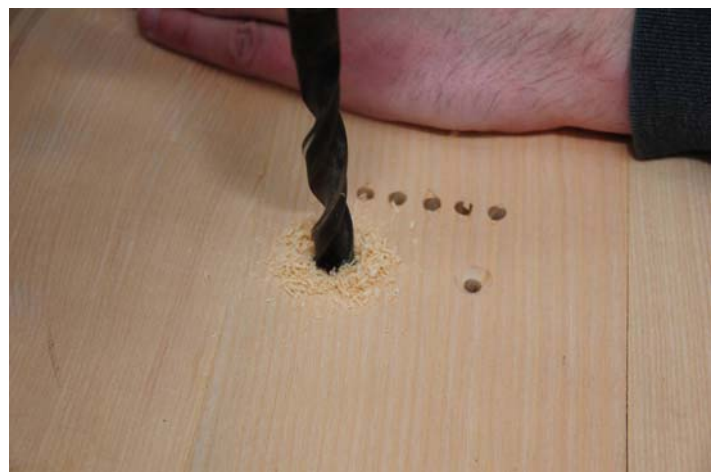
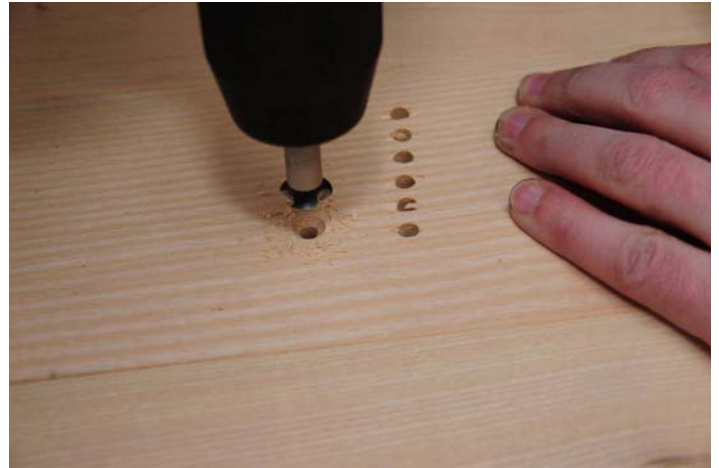


→ A 5.5mm drill bit is required for the bridge mounting screws, and a 6mm bit for the string ferrules.





- Once the drilling work on the front of the body is completed, the two holes for the bridge mounting screws must be drilled out to 13mm diameter and 6mm depth on the rear of the body...

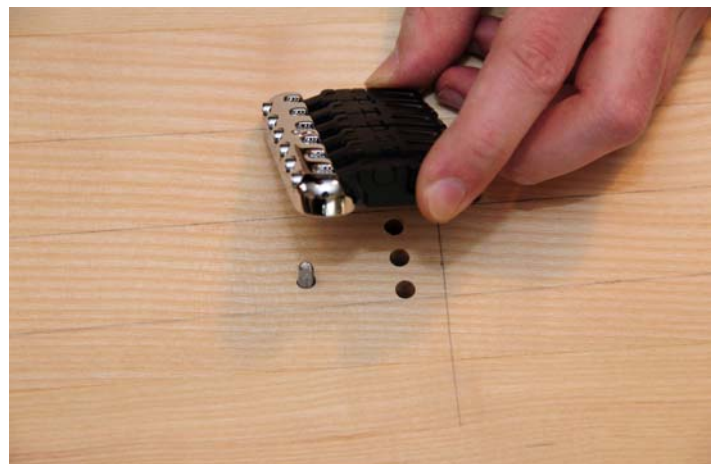




- ...to accommodate the two sockets for the two flat head screws.



- At this point, you can also check the toleranced dimensions for the bridge mounting screws.



- A cut-out of 11mm width, 65mm length and 5.5mm depth must be routed into the body for the string anchor plate.

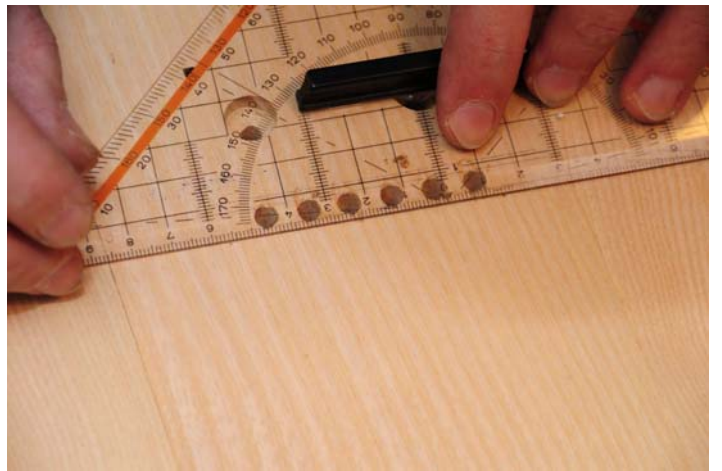
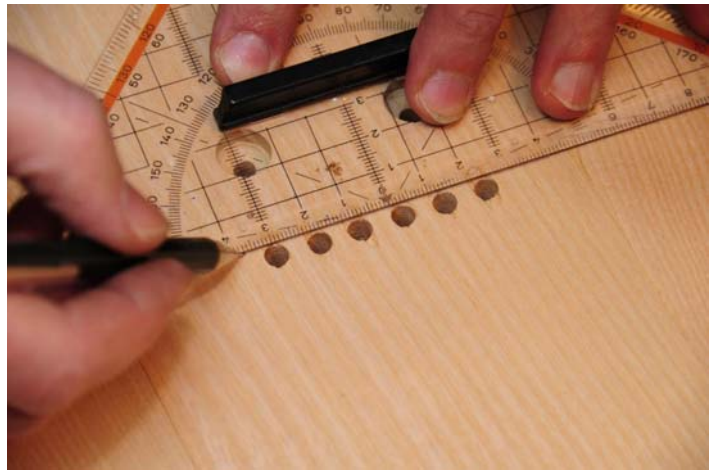


- **Make sure that you check the exact measurements - as illustrated - again, to allow for possible and normal tolerances in production uniformity (see also technical drawing).**

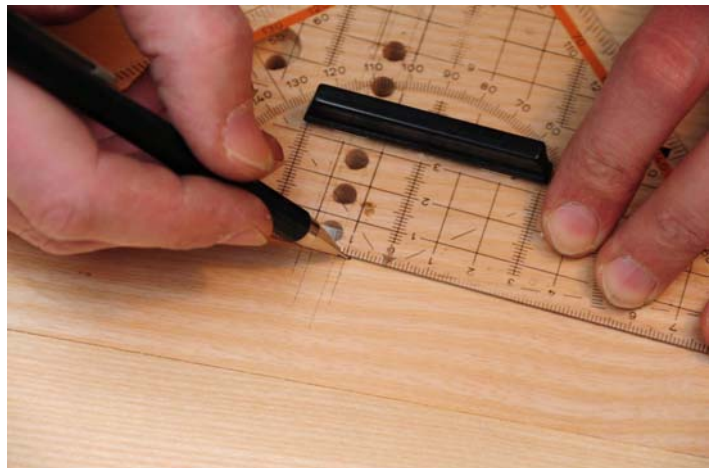
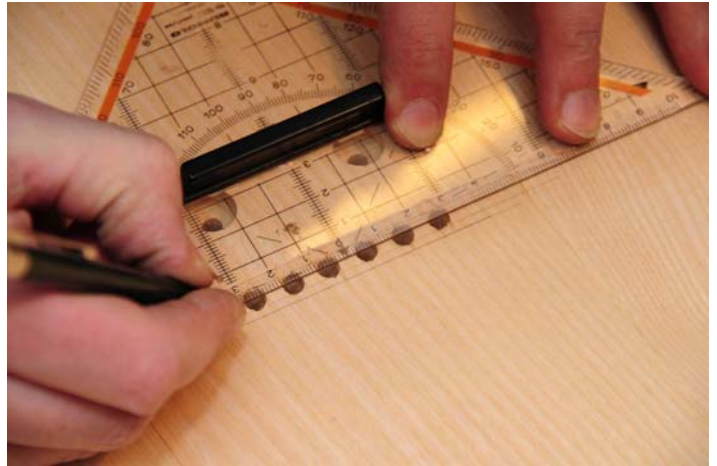


- As an aid, draw guidelines (as illustrated).









- Before routing this cut-out, check again that the markings are correct by placing the string anchor plate on the body.



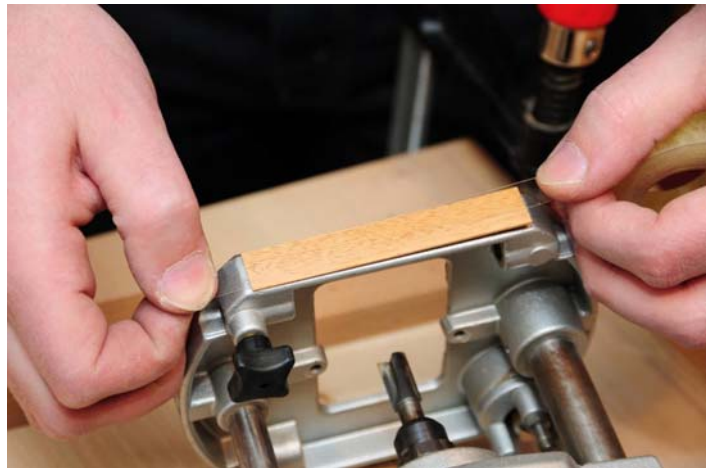
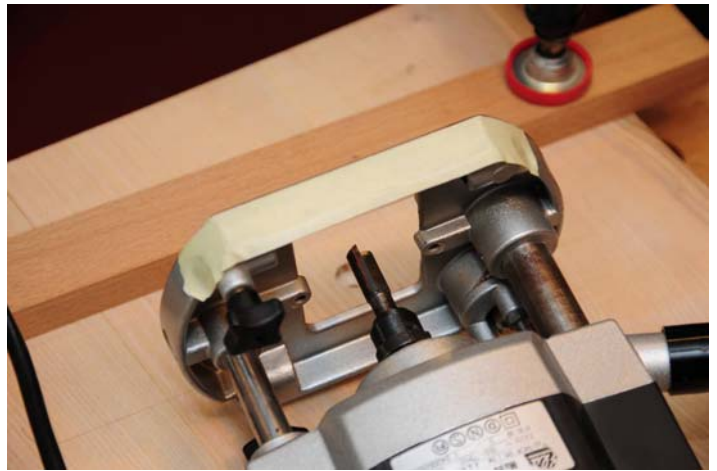


→ Line up the routing machine as illustrated by using a spacer.





→ If necessary, use adhesive tape and spacer plates to set the routing machine correctly (as illustrated).





- For the cut-out itself, you should use an 11mm bit, if available.



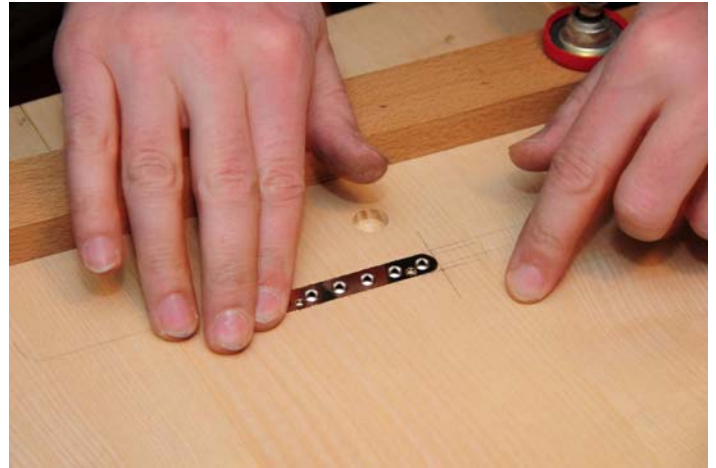
- It is also possible to use a 10mm bit, but in such a case, the remaining one millimeter must be routed afterwards.



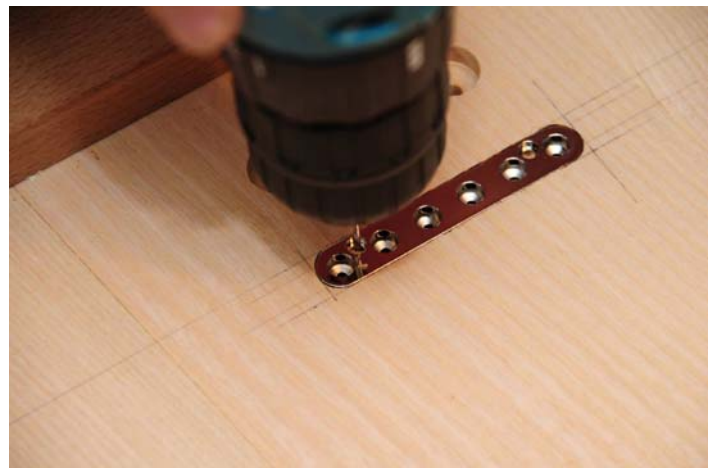
- Use the emery paper to sand down the edges smoothly ...



- ... and fit the string anchor plate into the cut-out.

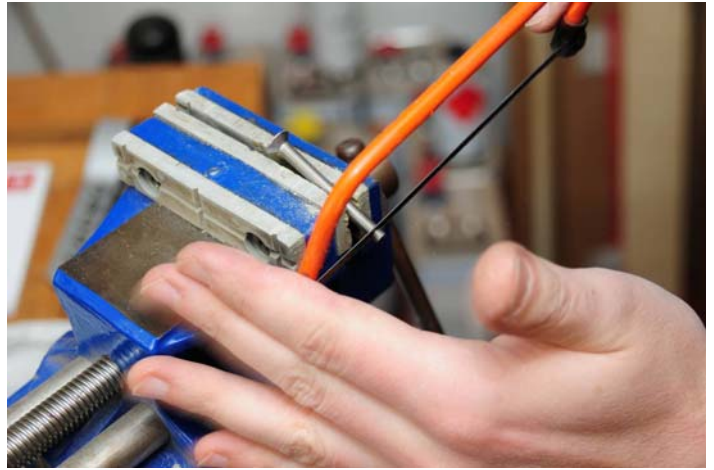


- The string anchor plate must then be screwed into place using the two wood screws supplied. However, the holes for these should first be pre-drilled using a 1.5mm drill bit to prevent the screws breaking off - especially with very hard woods.





- If the bridge mounting screws are too long, they can be shortened using a metal saw and deburred using a file.



- The bridge can now - as a test - be fitted in order to check that it sits correctly and that the mensur is correct.

