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Instructions for mounting the Dutch legstand from Maarten Vonk

Make a decision where to mount the stainless steel strip on the butt joint so all keys will work without obstruction. There are some places possible. Take off the necessary keys. Since the steel strip is rather stiff you have to calculate where to drill the holes. Take the very right spot for the strip. Because the bassoon is tapered, the outline is different at any position. If you are not accurate the strip will be too loose or too tight. Make a counterpoint at 5 mm from one end of the strip. Now we have to do some calculation before drilling the holes.

The basic formula for the outline of an ellipse is; $(a+b) / 2 \times 3,14$, but we have to alter this to our need.

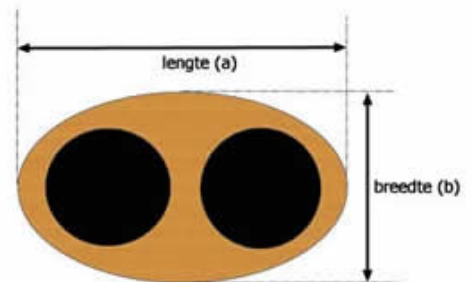
Rubber tape is coming between the block and the wood and also between the strip and the wood so we add this to the thick-ness.

The block itself takes 14 mm of the outline.

You use the next formula for the right fit:

$$(a+1 \text{ mm} + b+1 \text{ mm}) \times 3,14 / 2 = X - 14 \text{ mm}$$

Or an easy method is $(l+b) \times 1.475$



Drill 3.1 mm holes in the strip so you have exact the outcome between the centres. Smooth the edges of the strip all around.

Fix tape on the aluminium block coming on the bassoon and fix also ± 6 cm tape in the middle of the strip. Leave the white tape on the other side.

Try to mount the strip. Most of the times you have to make the strip fit. File or saw out the metal where needed around posts or holes. Mind the springs and pushpins.

When everything fits, mark the exact place with some tape.

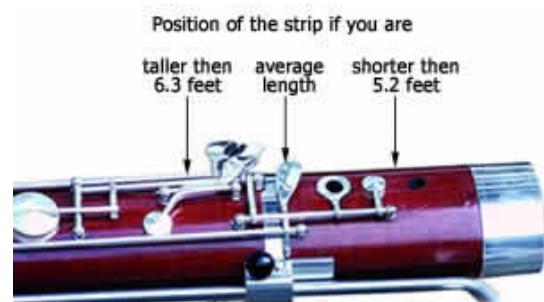
Take off the white tapes and fit it to the bassoon.

Be careful the tape is rather sticky and hard to move once it is on the bassoon.

Now we have to make sure the bassoon still fits in its case. You will have to make some modifications in the case.

When you get a little experienced with it, it takes between 45 minutes to 1 hour to do the job.

Good luck,
Maarten



Decide where to mount the legstand strip. The place is a little variable. It depends of the keys.



Remove the keys



Take the exact measurements on the small side and the wide side



The basic formula of an ellipsis is $(a+b) / 2 \times 3,14$. You have to add the rubber and the block has to fit in.

Now the new formula is:

$$(a+1) + (b+1) / 2 \times 3,14 = X - 14 \text{ (for the block)}$$

Or the fast way

$$(a+b) \times 1,475$$



The result is the distance between centres. Take on both sides 5 mm extra and make the strip at length. Drill the two holes 3,1 mm.



Make the end a little round and smooth out all sides of the strip.



Bend the ends so they can fit straight against the block. Paste the double-sided tape on the strip and the block (keep one side covered).



Mount the strip provisional around the bassoon. At this stage you have to make the strip fit the bassoon tight. File or saw the strip so the strip fits around holes and post.



Take extra care about springs and the pushpins going through the buttjoint.

Mount the strip and make shure everything fits and works fine.

If it is not possible to tighten the screw to the end you can file out the 3,1 holes a bit. You can correct about 2 mm in this way. Most of the time this should be enough.

Is there play in the strip and the screws are tightend you can add some tape on both sides.

If this is not enough start all over a take a better measurement.

It is very important the strip has no play. When there is, the block can move and damage the varnish and block the keys.



Mark the position of the block with Tessa tape.



Mark the position of the strip with Tessa tape.



Demount and remove the protection of the tape. This tape is very sticky so be sure the strips fits. (The tape is sticky but doesn't damage the varnish)



Put the block in place.



Start with the strip on the back at the market place. Bend both sides of the strip to the block on the other side. Don't twist the strip.



Screw in the screws a little bit and check everything to be OK. Then turn the screws changing sides so the strip is equally tighten.



The strip is proper fixed and tight. You can mount the keys now.



All keys have enough space.



Also the springs.



The bassoon is ready.



Take the top protection of the plate.



When needed clean with white spirit.



The only thing left is to make sure the bassoon fits in its case.

With some cases there's no problem, with others you only have to turn around the joint. Sometimes you have to remove part of the back of the case just enough to fit the joint (remove fabrics, take-out enough wood, color the wood so it fits the color of the fabrics and glue the fabric back on its place).

Make sure the bassoon cannot touch or hit another part of the bassoon.